



GOSWAMI GANESH DUTTA SANATAN DHARMA COLLEGE

SECTOR 32-C, CHANDIGARH – 160030

Website: www.ggdsd.ac.in

Email: info@ggdsd.ac.in

Phone No. +91 172-4912400, 2600090, Fax No. +91 172 2661077

Mobile No. 9815982435/9646002816

SELF STUDY REPORT (SSR) (CYCLE –III) 2016

Submitted to

National Assessment and Accreditation Council

**P. O. Box No. 1075, Nagarbhavi,
Bangalore -560072, Karnataka, India.**

Content

Table of Contents	Page No.
Declaration by the Head of Institution	
Preface	
Action Taken Report Based on the Recommendations of the NAAC Peer Team (Cycle II)	
Executive Summary and SWOC of the Institution	1-15
Profile of the Institution	16- 27
Criterion Wise Analytical Report	
Criterion I: Curricular Aspects	28-60
Criterion II: Teaching –Learning and evaluation	61-130
Criterion III: Research, Consultancy and Extension	131-187
Criterion IV: Infrastructure and Learning Resources	188-228
Criterion V: Student Support and Progression	229-254
Criterion VI: Governance, Leadership and Management	255-275
Criterion VII: Innovations and Best Practice	276-281
Evaluative Reports-Department Wise	
Faculty of Science	282-327
Faculty of Commerce	328-337
Faculty of Arts	338-377
Faculty of Information Technology	378-392
Post Accreditation Initiatives	393-400
Certificate of Compliance	
Annexure - I: UGC recognition under sections 2 (f) and 12 (B).	
Annexure - II : Letter from UGC regarding award of CPE	
Annexure – III: Latest Grant Certificate	
Annexure – IV: Master Plan of the institution	



GOSWAMI GANESH DUTTA SANATAN DHARMA COLLEGE

A MULTI FACULTY POST GRADUATE CO-EDUCATIONAL INSTITUTION

A College with Potential for Excellence - U.G.C.
Accredited 'A' Grade - NAAC, Bangalore

Selected under 'Star College Scheme' - D.B.T.
Selected under 'FIST Programme' - D.S.T.

SECTOR 32-C, CHANDIGARH -160 030

PH.: 0172-4912400, 2600090, FAX : 0172-2661077

E-mail : info@ggdsd.ac.in Visit us at : www.ggdsd.ac.in

Declaration by the Head of the Institution

I certify that the data included in this Self-study Report (SSR) are true to the best of my knowledge.

This SSR is prepared by the institution after internal discussions, and no part there of has been outsourced.

I am aware that the Peer team will validate the information provided in this SSR during the peer team visit.

Place: Chandigarh

Date: 15.3.2016



Signature of the
Head of the institution with seal:

Principal
G.G.D.S.D. College
Sector 32-C, Chandigarh

LIST OF SSR COMMITTEE MEMBERS STEERING COMMITTEE

Dr. Bhushan K Sharma, Principal
Mrs. Ashima Dhir, Convener
Dr. Gagandeep Sharma
Dr. Jasamrit Nayyar
Dr. Amit Mohindroo
Mr. Naveen Dalal

CONTENT CREATION TEAM

CRITERION I	CRITERION II
Dr. Anil K.Parti Dr. Yash Pal Dr. Amit Mohindroo Dr. Mani Parti Ms Arvuda Sharma Dr. Archana Sahni Ms Ruchi Sharma Dr. Shallu Sharma Ms Poorva Trikha Dr. Richa Gaiind Mr. Sureet Singh Ms Kawalpreet Kaur	Dr. Kapil Dev Dr. Diksha Kakkar Dr. Nidhi Mittal Dr. Monica Mittal Dr. Tarundeep Kaur Ms Preeti Vohra Dr. Savita Sindhu Dr. Pratibha Dr. Jyoti Kataria Dr.Shweta Wadhawan Dr. Sanjeev Kumar Dr. Neelu Mahajan Dr. Nidhi Grover Ms Anupriya Ms Priyanka Malhotra Ms Gagandeep Kaur
CRITERION III	CRITERION IV
Dr. M.L. Verma Dr. Navneet Batra Dr. Samriti Dhawan Dr. Ashima Pathak Dr. Akhlash Dr. Neetu Thakur Dr. Nidhi Mittal Dr. Amit Mr. Varinder Kumar Dr. Avneet Kaur Dr. Neetu Sharma Dr. Shivani Ghai	Dr. Sargampreet Dr. Rina Ms Monica Soni Ms Himani Mittal Mr Gurpreet Singh
CRITERION V	CRITERION VI
Dr. Balraj Thapar Dr. Safri Lal Dr. Rajinder Maan Dr. Sumeet Kaur Dr. Liza Nanda Mr. Dinesh Malik	Dr. Virender Singh Ms Pooja Mohan Dr. Garima Srivastava Ms Archana Goyal Ms Manu Sehgal
CRITERION VII	TECHNICAL STAFF
Ms Madhu Sharma Dr. Manisha Gangahar	Mr. Sumant Dutta Mr. Shamim Ahmed Khan

DEPARTMENTAL INPUTS

Commerce

Dr. Kapil Dev
Ms. Shallu Sharma
Ms Anupriya

Economics

Dr Aarti
Dr, Payal
Ms. Arvuda Sharma

English

Dr. Arun Gaur
Ms. Poorav Trikha

Political Science

Ms. Monika Soni

Sociology

Dr. Mona Arora
Dr. Rinku Kalia

Physical Education

Ms. Suman Sharma,

Sanskrit

Dr. Devi Singh

Punjabi

Ms. Manpinder Kaur

Hindi

Dr. Sunila Sharma

Public Administration

Mr. Rakesh Mehta

History

Dr. M. Parmod

Music

Dr. Kulwinder Kaur

Journalism & Mass Communication

Ms. Priya Chhadha

Fashion Designing

Ms. Sumita Sikka

Physics

Dr. Samandeep Sharma

Zoology

Dr. Sangeeta Pandit

Botany

Dr. Aruna Saini

Biotechnology & Microbiology

Dr. Navneet Batra
Ms. Neetu Sharma

Bioinformatics

Mr. Varinder Kumar

Information Technology

Dr. Rina
Dr. Garima Srivastava
Ms. Manu Sehgal

Biochemistry

Dr. Akhlesh Partap

Psychology

Dr. Tarundeep Kaur

Chemistry

Dr. Jyoti Kataria

Mathematics

Mr. Puneet Sharma

Statistics

Ms. Parneeta Bedi

PREFACE

Goswami Ganesh Dutta Sanatan Dharma College was established in 1973 under the dynamic leadership of late Pt. Mohan Lal Ji, former Education, Home and Finance Minister, Punjab, and a staunch follower of Mahamana Pt. Madan Mohan Malviya. With the efforts and collaboration of visionaries and committed workers, the college was started to bring change in society through an education that was firmly grounded in value based principles with the motto 'Firm in Faith and Broad in Mind'. The teething troubles of the institution were overcome by the 'Karmayogi' Pt. Mohan Lal Ji, who, with his pragmatism, vision, administrative acumen and exceptional enthusiasm led the institution from the front. Since its inception in 1973, GGDS College has come a long way. Its rich history is imbued with many milestones, each outdoing the last. Drawing strength from its core foundational 'Sanatanist' values, the college has readily embraced change in the fluid global economy and the rapidly transforming higher education system. This is the reason that it is among the very few institutions in the region that have kept pace with the changing times, thereby, emerging as one of the premier institutions of higher learning in the region. The college has also been bestowed with the honour of being **"A College with Potential for Excellence"** by the UGC, New Delhi. We are one of the few colleges (<1% of the total colleges in India) to have been bestowed with this honour. The college was accredited with **'A' Grade** by NAAC during the session 2011-12. The college has been selected under 'Star College Scheme' by the Department of Biotechnology, Government of India. It has also been selected under 'FIST Programme' by the Department of Science and Technology, Government of India.

The college has been recognized as a **Research Centre** leading to Ph.D degree by the Panjab University in the subjects of Biotechnology and Chemistry. Our college is a member of Microsoft IT academy programme and we are the first college in the region to be selected as a Member Microsoft IT Academy Programme. The college is the only one in Chandigarh to be selected by UGC to run vocational courses (B.Voc) namely: **Retail Management & Food Processing and Preservation**. The college has been selected under DEEN DYAL UPADHYAY KAUSHAL KENDRA to run three more B.Voc. Courses namely: **B.Voc in Agri Business and Agrarian Entrepreneurship, Fashion Technology and Apparel Design and in Hardware and Networking**. Three departments of the college i.e. Department of Commerce and Management, Department of Bio Sciences and Department of Economics have been declared as **"Star Departments"** by UGC. We are one of the few colleges in North India to have been granted four **Innovative Programmes** recognized by the UGC. These include: M.Sc. Applied Chemistry (Pharmaceutical), MEFB (Masters in Entrepreneurship and Family Business), M.Sc. Bioinformatics and Post Graduate Diploma in Computer Graphics and Animation. The college is also among the few colleges in the entire country to run 19 parallel Career Oriented 'Add-on' Courses. In total, the college is running 16 UG, 10 PG and 05 PG Diplomas

Our college has hired the services of **TCS as an ERP solution**. Under this scheme of things, all activities related to accounts, students' attendance, accessing books in the library, accessing admission form etc. have gone online. It has led to the digitization of all important

data of the college. Earlier the college had signed an MOU with Tally India (Pvt.) for ERP solutions.

The college signed an **MoU** with The University of the Fraser Valley (UFV), Canada in 2006 to garner international exposure in education and teaching. The decade old partnership has been extremely rewarding. The college has also signed another **MoU** with National Stock Exchange (NSE) to run a new NSE Certified Capital Market Professional Course. The college was awarded the Certificate of Proficiency in Innovation, Management, Productivity, Quality and Services by the Global Organization of Business Entrepreneurs, Delhi. We are one of the few colleges in northern India to have been granted the INFLIBNET connection by the UGC. The college recently has signed an Agreement with EBSCO and has purchased 1, 34,000 e-Books.

Apart from regular Faculty Development Programmes being organised in college, the first **Instructional Skills Workshop (ISW)**, an internationally recognized peer-based educational development programme with a 35 year history, was held from 18-23 August 2014, through our partnership with the University of the Fraser Valley, Abbotsford, BC, Canada. The ISW was facilitated by Mr Raymonde Tickner from the Faculty of Access and Continuing Education, UFV, Abbotsford, Canada. It was delivered to six faculty members of the college. These participants were given a certificate and credit towards ID 3220 (Delivery of Instruction), one of the courses of the British Columbia Provincial Instructor Diploma Program, offered at Vancouver Community College, through the School of Instructor Education in Vancouver, British Columbia. Thus, the participants gained internationally recognized credits after having undergone this FDP/ISW program. Till date our trained faculty has conducted 05 Faculty Development Programmes to train the teachers.

In an endeavour to help students deal with their everyday anxieties and stress, the Department of Psychology opened a meditation and counseling centre on the college campus, “**Manasuday**” meaning “Awakening of the Mind”. The purpose of the centre is to provide individual stress management assessments and prescriptions. It is the region’s first and one of a kind initiative taken by the college to help students in their all round development. More than 300 footfalls in one year justify the purpose of the centre.

Besides these achievements, the college has **extensive outreach programmes** that cater to the less privileged sections of society. **The Kaushalaya Devi Verma Charitable Institute for Women** set up on the college campus in the year 2000 imparts free vocational training to economically weaker women. The institute conducts six month and one year long courses in cutting and tailoring, embroidery including professional machine embroidery, cosmetology and beauty culture, and computer training. The College also extends support to **Dr. B.R. Ambedkar Primary School** run by the NGO- Citizen Association of Relief and Education Services (CARES) in Janta colony, Naya Gaon. Besides providing monetary help, the school is regularly visited by the ‘Spirit India’ volunteers of the college and the children are guided and educated to learn various co-curricular activities along with their studies. Spirit India, a voluntary organization of the college, in collaboration with NGO AAVAHAN contributes towards current social issues like corruption, female foeticide, women empowerment and literacy for the underprivileged. More than 200 students got themselves

registered with 'Spirit India' in 2015-16. Seminars and workshops on issues such as alcoholism, road safety, women empowerment, value of traditional art and craft and healthy living were organized under the aegis of Spirit India.

The college has also signed an MoU with an NGO - "Teach a child" to financially assist in training their teachers. Besides these programmes, the students of the college produce a **documentary** every year on burning social issues like drugs, female foeticide, honour killings, etc. This year our students produced a documentary 'Unkahi Unsuni' on the dismal lives of wedding band players. The documentary received Best Student Entry award at the International Short Film Festival held at Bangalore in June 2014.

Some of the best practices of the college include voluntary contribution of one day salary by each staff member (Teaching/Non Teaching) on the retirement of a colleague and contribution of five day salary by each employee on the death in service of a colleague. This noble gesture reflects the rich culture of goodwill and camaraderie that prevails in the institution and inculcates a deep sense of belongingness among its members.

In order to promote Urdu language, the college hosts Urdu classes free of charges. These classes were started 14 years ago in the college premises in the year 2002. They were initiated by Language Department, Government Punjab, Patiala. Dr. H.K. Lall takes these classes from 5-00 p.m. to 6-00 p.m. from Monday to Friday. It is a six month course being run in two batches of 30 students each. The first batch starts from 1st January to 30th June and the second from 1st July to 31st December.

We believe in the holistic development of the students and the college encourages the students to participate in sports and cultural activities and competitions. Our college has been winning the overall trophy at P.U. Youth **festival for the last two years. Our sports persons have brought laurels by bagging 245 gold, 171 Silver, 214 bronze.**

Spread across 16 acres, the campus has a State-of -the -Art auditorium with the seating capacity of more than 1000 people, 08 seminar halls, 96 class rooms, 49 labs, play grounds and separate hostels for boys and girls.

ACTION TAKEN REPORT BASED ON THE RECOMMENDATIONS OF THE NAAC PEER TEAM (CYCLE-II)

Recommendation of the NAAC Peer Team (CYCLE – II)	ACTION TAKEN
1. To get the recognition as a Research Centre by university authorities.	• Panjab University recognition as a Research Centre in Chemistry and Biotechnology.
2. To work towards the Deemed University Status as per UGC provisions	• Working towards Autonomous College Status.
3. To introduce PG innovative courses in English , Travel & Tourism , Journalism & Mass Communication, Nano Science and Technology, Food Technology & PG Diploma in Statistics/Mathematics, Psychology and so on.	• PG courses introduced in Physics, Economics, and English. • Honours in Psychology and Sociology. • Five B.Voc courses under Deen Dayal Upadhyay KAUSHAL Kendra, ✓ B.Voc (Retail Management) ✓ B.Voc (Food Processing and Preservation) ✓ B.Voc (Hardware and Networking) ✓ B.Voc (Fashion Technology & Apparel Design) ✓ B.Voc (Agri Business and Agrarian Entrepreneurship) • Diploma in Medical Lab Technology under Community College Scheme, UGC, New Delhi.
4. To review the relevance of existing COPs and to give emphasis to practical orientation & suitable selection and combinations.	• The college started with 25 COPs but since we have introduced five skill based B.Voc. courses (industry oriented), we have reviewed and retained 13 market oriented COPs.
5. To establish commerce and business laboratory and strengthen psychology laboratories as well a separate computer centre for non IT students	• An accounting lab established. • Stress Management Centre “MANASUDAY” established by Psychology Department. • One more Psychology Lab established. • Two separate computer centres established for Non-IT student in the digital library and bioinformatics department.

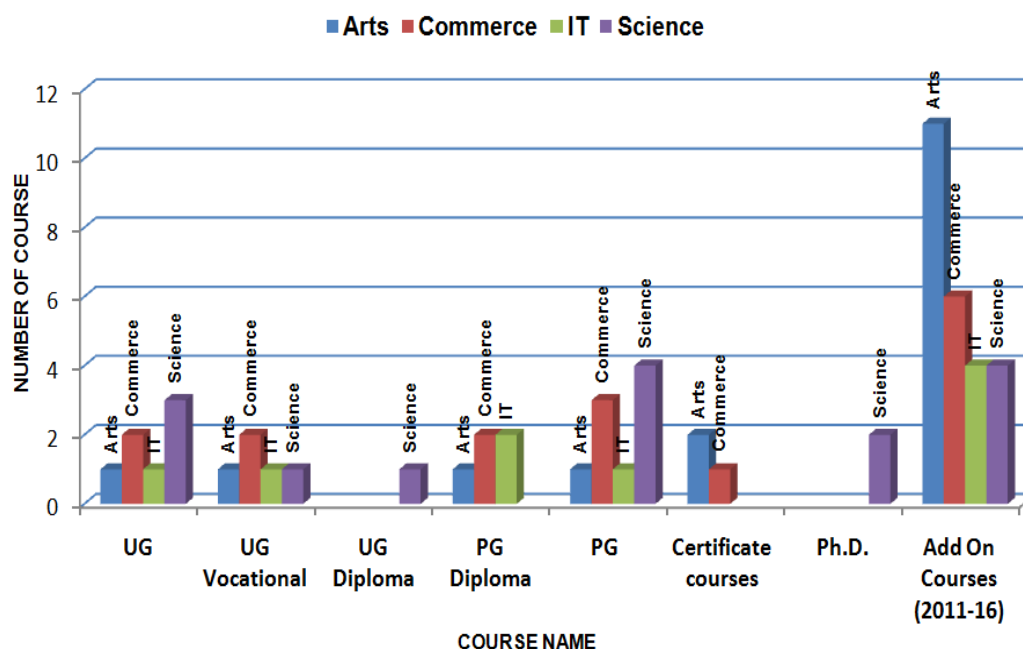
6. To introduce MIS , Biometrics, and other ICT enabled administrative tools.	• Fully automation mode through TCS iON for MIS. • Biometrics system introduced. • Exclusive ERP developed by the TCS iON for ICT based teaching –learning which includes smart classrooms, LX (learning exchange) module for online teaching method.
7. To institutionalize and formalize feedback system, counseling and placement services.	• Formalized feedback system, proactive counselling and placement cell.
8. To work towards democratic functioning of student council and its activities to develop leadership and creativity.	• Student Elections held as per Lyngdoh Committee recommendations by the Administration. • Student Council has representation in all the important administrative committees of the college.
9. To take necessary measures to enhance efficient and better usage of library, digital library, communication laboratory and multimedia facilities, through sensitization, orientation and refresher programs.	• Digital library established. • Communication lab established. • Workshops and orientation programmes are regularly held to sensitize the students regarding the efficient use of library and lab facilities.
10. To conduct regular FDP on need based issues to staff and to upgrade staff rooms and student rest rooms, fitness centres.	• Regular Faculty Development Programmes conducted. • International ISW (Instructional Skills Workshop) started in collaboration with a Canadian University. • Well-equipped fitness centre created, staff rooms and student rest rooms upgraded.

EXECUTIVE SUMMARY AND SWOC OF THE INSTITUTION

Criterion I : Curricular Aspects

The Curricular Aspects encompass the action plan at four levels: Curriculum Planning and Implementation, Academic Flexibility, Curriculum Enrichment, and Feedback.

- The Institution has the vision to become a centre of excellence with a mission to provide the best academic environment based on a sound value system. To achieve these ends, the **Curriculum** is effectively implemented through the action plans prepared by the **ADC (Academic Development Council)** and the **IQAC (Internal Quality Assurance Cell)**. The course outlines, semester-wise division of syllabi, industry interface, workshops, seminars and field trips are an integral part of the action plan. Staff members are kept updated about the emerging teaching methodology and are encouraged to present research papers at various platforms. Multimedia aids, smart classrooms, fully automated system provided by TCS, General Tutorials, Add On Classes, e-books, latest books and well organized pre-placement training through Placement Cell, make the transition of curriculum all the more effective.
- The Institution interacts with industry & research bodies like **IITs, IISER, IMTECH, NIPER, CSIR, CRIKC, IIMs, SEBI** etc. and the university at different levels. We tie up with industries and leading retail companies to provide hands-on experience to our students. The college has inked MoUs with companies like **Tata Consultancy Services, National Institute of Electronics and Information Technology, Dairy Development Board, University of the Fraser Valley, Canada and Microsoft Corporation** to facilitate effective implementation of the curriculum.
- The college has made a major contribution to the field of **curriculum design** through our staff representation in the Boards of Studies of the university. The college has developed **five B. Voc. courses and one DMLT course**. Ours is the only college in the region to have developed its own curriculum for 23 Add-on and 04 Innovative courses.
- The institution ensures that its objectives are achieved through comprehensive communication among the faculty members, through the analysis of feedback forms and through different sources that include students, teachers, stakeholders, parents and alumni. Important suggestions are then incorporated in the implementation of the curriculum.
- The college provides **Academic Flexibility** to help students in terms of **skill development, academic mobility and progression to higher studies**. In PG and UG courses, there are a number of available combinations, options and choices in the streams of Science, Commerce, and Humanities. There is a provision of **lateral entry in Add-On courses**. Students have the **flexibility to opt for Add On courses from any stream** and also have the **flexibility to change the Add On course in the next academic session**.
- We also have three-year B.Voc degree courses with **exit point facility**.
- The college provides 12 UG courses (including B.Voc.), 09 PG Courses, 05 PG Diploma, 01 UG Diploma, 03 Certificate courses and 02 Ph.D. programmes, and 25 Add On Courses (2011-16).



- The college provides 24 skill development programmes relevant to regional and global employment markets. They **include 05 Vocational Degree Courses, 02 Certificate Courses, 14 Add On Courses, and 03 Diploma Courses**. The number of beneficiaries of these skill development programmes is quite significant.
- The institution offers **46 self-financed programmes** (degrees, diplomas and certificates courses) at the graduate and post-graduate levels. Admission to these courses have different individual criterion based on merit, interview, and economic status. **40 of these courses have the curricular designed by the college itself**. The qualifications and salaries of teachers are as per the Government/UGC norms and fee structure is as per the rules of Panjab University and DPI (Colleges).
- The institute ensures that existing academic programmes are modified, enriched and organized to meet the emerging national and global trends. For this **feedback** from students and other stakeholder is taken and departmental workshops and student centred activities are promoted for the **Enrichment** of the curriculum.
- Regular FDP's are conducted to enrich the curriculum to suit the students' needs.
- Students' participation in various co-curricular activities, tutorial sessions, different academic competitions, national and international conferences, personality development sessions, summer internship programmes, subjective/objective tests, blood donation camps and industrial visits are encouraged and promoted.
- The institution makes much effort to integrate many cross cutting issues into the curriculum. To integrate the issue of **Gender and Environment**, General Tutorials are held and special lectures are organized. We have also constituted '**Student Grievance Cell**' and the '**College Committee against Sexual Harassment**'. The issue of Climate Change is also addressed at different fora. '**Haritima**', the environmental society of the college plays a pivotal role in imparting the environmental education and awareness. The issue of Human Rights is integrated through departmental seminars and the **Anti-Ragging Cell** of the college.

- We believe in the holistic development of our students and teach them lessons in life skill through motivational talks and PDPs.
- The college make students aware of community development by encouraging them to participate in various social activities through **N.S.S.** and **Spirit India** (A Student Voluntary Organization of the College)
- The college supports **B.R. Ambedkar Primary School**, and has signed **MoU with an NGO 'Teach a Child'**.
- Our college society runs **Mrs. Kaushaliya Devi Verma Charitable Institute for Women** to make women of weaker section of society economically independent by giving them training in tailoring and beauty culture.
- The college contributes in the **design and development of the curriculum** through various suggestions at the university level. A number of faculty are members of the Senate and Board of Studies. The curriculum designed by the college for many of its innovative and skill development programmes serve as a role model for the university to design its own programmes and courses. There is a formal mechanism of **feedback** from students, parents, alumni on different aspects like courses, internal assessment, hostel facilities, role of placement cell, extra-curricular activities etc.
- In 2015-16, many courses have been introduced by the institution. B.Voc.(Computer Hardware & Networking), B.Voc. (Fashion Designing & Apparel Designing), B.Voc. (Agri Business and Agrarian Entrepreneurship) were introduced in 2015-16 under the **Deen Dayal Upadhyay KAUSHAL Kendra Scheme** of UGC, New Delhi.
- In 2014-15, **Research Centre in Biotechnology & Chemistry** was recognized by Panjab University to promote the research aptitude among the students and faculty and to help in interdisciplinary research at national and international level. B.Voc. (Food Processing & Preservation) and B.Voc. (Retail Management) courses were started under the **National Skills Development Program** of **UGC, New Delhi** to develop techniques to transform raw materials into nutritious food and to cater to the market demand in retail sector, respectively. **Diploma in Medical Lab Technology (DMLT) Under Community College Scheme** was also introduced to train students as lab technicians.
- In 2013-14, the college introduced M.Sc. Physics, M.A. Economics, Honours Course (Psychology & Sociology) and Microsoft (IT) Academy programme.
- In 2012-13, **NCCMP National stock exchange Certified Capital Market Professional Programme** was started. The course was introduced to meet the popular demand of the students, to help them obtain hands-on skills and to raise the employment potentiality of students.

Thus the institute deals very effectively with all the four aspects of the Curricular Planning and Implementation. It makes tremendous efforts through a wide variety of means to achieve the objectives of excellence in teaching, learning, and research.

Criterion II : Teaching, Learning & Evaluation

The Criterion II caters to admission process, student profile & progression, teaching learning process, teacher quality, student performance and learning outcomes.

- Due publicity of the admission process is carried out through **advertisements** in **newspapers** and **social networking sites**. The college **prospectus** and **website** carry comprehensive information about various courses offered and other related details.
- **The entire Admission Process has been Automated.**
- The **Guidance and Counseling cell** guides the students and is available for **one-to-one counselling** during the admission.
- The admissions are carried out as per **Panjab University rules**.
- The institution remains committed to the national policy of **inclusion and diversity**. Besides reservation of seats for specific categories, emphasis is laid on **promotion of girl education**.
- **Students from Backward Class or differently-abled students**, are not only accommodated according to the government policy, but are also encouraged and guided to compete with their peers.
- The college campus is designed in a way that it caters to the needs of the differently abled students. There are ramps to facilitate access to classrooms and washrooms. Library is so structured that enough space is available for free movement.
- The college assesses the students' needs in terms of knowledge and skills through scrutiny of their previous examination marks and personal interviews.
- Other student-centric strategies, including orientation programmes, remedial & meritorious classes and tests, workshops and extension lectures are adopted to fulfill the knowledge gaps.
- The Registrar and the Sub-Registrars maintain the data and information on academic performance of students, thus helping the faculty identify slow learners and meritorious students for appropriate assistance.
- The college follows the academic calendar released by the Panjab University and **strictly adheres to teaching, learning and evaluation schedules**.
- Besides this, all the departments prepare the calendar of the schedule of various activities, including seminars, conferences and excursions.

- A detailed **evaluation policy**, regarding **mid-semester tests** and **regular assignments** among other assessment tools, is formulated in advance and communicated to students.
- The college promotes **student-centric, participatory and interactive learning process** by encouraging class participation, group discussion and presentations. Use of **ICT** by faculty and students, **access to e-books and e-learning** resources are some of positive steps towards interactive learning.
- Most of our alumni are working in reputed organizations and doing very well in their lives, while others are pursuing higher studies in reputed colleges in India and abroad.
- The college remains committed to the holistic education both in policy and practice.
- All faculty positions are filled as per the norms laid down by Punjab University, Chandigarh and other government agencies like DHE, UGC, etc. The college conducts interviews of eligible candidates by inviting distinguished panel of renowned teachers from Punjab University.
- The institution ensures that its faculty members are paid on time and are given salaries as per UGC norms for their services.
- The faculty is encouraged and guided by the college to avail duty leaves to upgrade their academic qualifications by pursuing higher studies.
- The college has made provisions for **staff development programmes** and adopted many strategies regarding the same in the last four years to enhance the teaching quality of its faculty members. One of the recent programs started by the institution is **Instructional Skills Workshop (ISW)**, in association with University of Fraser Valley, Canada.
- In case of a change in the syllabus, the Principal and HoDs guide the teachers regarding the effective **implementation of new syllabus**. The new books are immediately added to the book bank of college library.
- The College invites experts to discuss the latest curriculum, and train the teachers, if necessary. Teachers also participate in the training programmes organized by the Panjab University and other organization.
- The College staff has access to various textbooks, reference books, journals required for effective teaching. The **Digital Library** of the college provides internet facilities to faculty members and students for the purpose of research.
- The Institution strictly follows the **evaluation processes set by Panjab University, Chandigarh**. The examination **schedule and evaluation process are clearly mentioned in the college calendar**. This ensures effective implementation of the evaluation process. The students are sent important information regarding attendance, exam dates etc. through SMS/e-mail.

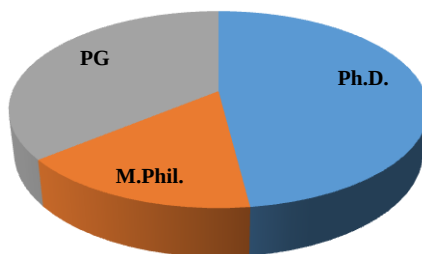
- The institution has specified procedure, like continuous assessment to collect and analyse data on **student learning outcome**. For evaluating students' performance, a large number of academic and co-curricular activities are planned and executed in the college throughout the year.

Criterion III : Research, Consultancy and Extension

The Criterion III deals with promotion and resource mobilization of research, research facilities and extension activities.

- Our college has **two research centers** (Biotechnology and Chemistry) recognised by Panjab University, Chandigarh. Under the guidance of an active research committee, the faculty and students are developing and promoting a healthy research culture. During last five years, 26 faculty members completed their Ph.D, 3 completed their M.Phil and 21 enrolled for their Ph.D The faculty members of the various departments are supervising Ph.D research work of 28 students enrolled with other universities. On the whole 48% of the faculty are Ph.D., 16 % M.Phil. and the rest are PG.

Qualification of Teaching Faculty



During 2011-15 the **faculty members completed 7 major and 8 minor research** projects granted by UGC. Two of our faculty members have undertaken collaborative research project funded by UGC and UGC DAE.

- **More than 70 seminars and workshops, training sessions and FDPs** have been organized by the various departments. The college regularly invites faculty of the reputed institutes and industry to upgrade the knowledge of our students. The seminar fund is utilized for supporting conferences and seminars. The college reimburses the registration fee and travel expenses of faculty and students for attending conferences, workshops and seminars.
- **Around 4% of the total budget** is marked for research activities.
- The students are provided financial support as per financial grants received by the institution.
- The college has established **“Central Instrumentation Facility”** where equipment and instrument are made centrally available. The faculty and students of all the departments have access to the Wi-Fi, which further facilitates their research work.

- Apart from 67,598 books, 115 periodicals, 241 encyclopedias and 510 dictionaries, our college has INFLIBNET N-List programme through which students can access 6000 e-journals and **more than 2,73,000 e-books (EBSCO)** from reputed publishers. The functioning of the library is automated with integrated ERP software named TCS iON OPAC.
- **A Digital library equipped with 52 computers** has been set up for the students to access electronic resources. For smooth and speedy access, it is connected with 50mbps leased line connection. To help visually impaired students two computers are equipped with JAWS ready software.
- The Department of Commerce publishes a biannual research journal named '**VANIJA MANTHAN**' with ISSN No 2350-0719.
- The Students of PGDMC bring out News Letter '**Expression**'.
- Our faculty members have published more than **125 books and 418 research** papers in journals of International and National repute.
- The college encourages the faculty to utilize their expertise for consultancy services. Academic expertise of faculty members is publicized on the college website. The college grants duty leave to the faculty members to deliver lectures in institutes of international and national repute.
- The endeavor of the college is to work towards holistic development of the students. In order to make the students socially responsible, they are encouraged to participate in spiritual and value based activities.
- The college runs **2 NSS and 2 NCC** units to train the students as per the national agenda. The college has a student volunteer group – '**SPIRIT INDIA**' under the aegis of NGO Aavhan to sensitize the students about the relevant social issues.
- **The Manav Dharma Kendra** of the college organizes activities and lectures to enlighten the students with sound value system. ASHRA (Association of Students for Human Rights) organizes lectures and workshops for fund raising, medical awareness and adult education.
- The college runs **Mrs. Kaushilya Devi Verma Charitable Institute** to provide free vocational training to economically weaker women. The college offers a six month and one year certificate course in professional skills like tailoring, embroidery, cosmetology, beauty and culture and computer training.
- Our **Spirit India volunteers** have adopted the underprivileged students of **B.R. Ambedkar Primary School** in Janta Colony NayaGaon. The volunteers impart training on communication skills, moral values, personal health and hygiene to the children, during different counselling sessions.
- Our college students regularly produce **documentaries on social issues**, which have been recognized and nominated at various national and international forums.

- To keep pace with the global standards, the college has collaborated with Indo-Canadian Education Society and University of Fraser Valley (UFV), Canada for the faculty training and development and faculty exchange programme.
- The college has MoUs' with institutes and industries/corporate of national repute.
- The colleges provides support to the faculty to develop collaborative research programme by getting permission to use infrastructure and research laboratories.

Criterion IV: Infrastructure and Learning Resources

The Criterion IV deals with physical facilities, library resources and infrastructure of the college.

- The college has ample infrastructure to serve the needs and fulfill its goals in the present and near future. Teaching work in the college is carried out in 96 classrooms including **21 technology enabled smart class rooms**. Apart from this, **08 new IT labs** also help students match their theoretical advancement with practicals. In order to keep the infrastructure abreast with the latest developments in the world, the college has provided students with **latest configured computers including i7 (82 computers) and i5 (67 computers)**.
- The college infrastructure has 08 Seminar Halls including 04 for Arts and 04 for Sciences. In the faculty of Sciences and IT, our college has one of the best infrastructure in the region with **49 Laboratories**. The college has **Museum Specimens, Herbaria and a Botanical Garden for Botany students**. Our science departments have also been equipped with latest specialized facilities and equipments for Teaching Learning and Research. Bio-sciences have many facilities out of which **cold room facility, AKTA Prime Protein Purification System, -80 degree freezer and photomicroscope** are a few to mention. Our Zoology department, apart from other facilities and equipments, has multiple kinds of **microscopes and Aquariums**. The Chemistry department has labs equipped with latest equipments.
- In the Department of Information Technology, there are **300 Computers, LAN and latest training software**. The Department of Economics also boasts of software like **SPSS, MINITAB and SYSTAT**. The Departments of Mass Communication, Journalism and Functional English enjoy technical support like **Quark express software, Audio mixer, Sony video camera and projectors** etc. For the benefit of our sportsmen and sportswomen we have Indoor games facilities and gymnasiums in the hostels. They also avail of the sports facilities in PU and various stadiums in the city. Our college also has one of the best **auditoriums** in the region. Centrally air conditioned with 1000+ seating capacity, its operation is IT enabled with touch screen facility.
- Our college makes optimal utilization of infrastructure by sharing class rooms among different faculties. The college also spends generous amounts on developing and augmenting infrastructure. The amount spent on infrastructure and equipment during 2011-12 to 2014-15 is **Rs. 9, 72, 45,929/-**. In the near future, the college plans to

develop **new teaching block, open air theatre, new generators and automated genset system**. From the session 2015-16, **Automation** of complete college system alongwith library has been effectively implemented.

- Our college provides ramps, separate toilets and a separate parking space to differently able students on the campus. Their classes are conducted only on the ground floor.
- The college has two hostels each for girls and boys **to comfortably lodge 325 girls and 275 boys**, respectively, with facilities like Wi-Fi, reading room, library, recreation room etc. There is also teaching and non-teaching resident staff in the hostels.
- The college has on campus facilities like medical room, two visiting doctors and one permanent pharmacist. The college has also tie up with INSCOL hospital.
- Apart from regular teaching infrastructure, the college has space for Common facilities like IQAC, Grievance Redressal Unit, Women's Cell, Counselling and Career Guidance, Health Centre, Canteen and Auditorium.
- The library of our college has a **total area of 1143.32 Sq. mtrs**. There is a dedicated Reading Hall with the area of 412 sq. mtrs. The seating capacity of our library is 262 students at a time. The library functions under the guidance of a Library Advisory Committee, which has a tradition of taking effective initiatives. The college library hosts a special IT Zone for accessing e-resources where internet is provided with bandwidth speed of 50 mbps. Taking steps towards digitization, the library has taken initiative to provide students and teachers with access like INFLIBNET and N-LIST. The library also provides Reprography facility. For helping the visually challenged users, **JAWS (windows screen reading software)** has been installed on 02 computers, where students can access internet in spite of their said disability.
- There are **574 desktop computers, 39 laptops, and 11 servers** to provide computer facility to the college. The computer student ratio is 1:1 in the class. The whole campus enjoys high-speed LAN + WiFi system. The college also has a large number of licensed software, some of which are: **DNA STAR, GAUSSIAN 900, MINITAB in Bioinformatics and Quark X-press, CMIE PROWESS DATABASE and SPSS in Arts**.
- Computer and internet facility is provided to the students on and off the campus through an **MoU with the leading ICT company, TCS**. It has facilitated the launch of **TCS Learning Exchange Facility** in the college, where students can share their **e-contents, assignments and examination details**. Their academic record and attendance is also available online. It also provides a virtual notice board to the students.

Criterion V: Student Support and Progression

The Institution provides detailed and updated information to the students regarding the vision and mission of the college, the infrastructure and faculty, the courses being offered, **the extension/cultural activities organized** through the year and all other relevant information through the prospectus, website and Campus Reporter. The **Advisory Council Cell** and the **Internal Quality Assurance Cell (IQAC)** monitors the implementation of the policies.

- The college provides **scholarships/freeships** to meritorious/deserving students who have excelled in academics, sports and other extra-curricular activities. The college gives fee concessions and runs a book bank for meritorious and financially weak students. **These scholarships and concessions amount to a tune of Rs. 25, 00, 000/- annually.**
- Student welfare is paramount for our college. For this the college offers specific support facilities for reserved categories, students with any disabilities, overseas students, slow learners and ensure good medical assistance. **The College has recently tied up with INSCOL, Chandigarh for emergency medical treatment.** The college provides medical facilities, accidental insurance and other student welfare schemes. **All the students of the college have been covered under the accidental insurance scheme to the tune of Rs. 1,00,000/-**
- The students are motivated and encouraged to take part in various regional/national/international co-curricular activities to instill confidence and unravel their talents.
- The College also organizes **special coaching classes** for skill development and preparation of competitive exams like UGC-CSIR-NET, UGC-NET, SLET, ATE/CAT/GRE/TOFEL/GMAT/Central/Stateservices, Defense, Civil Services, etc.
- We offer **B.Voc courses for skill development, remedial and meritorious** classes for weak and bright students, and **extra classes** for students who are at risk of failing. Special classes are also arranged for students to prevent dropouts.
- **Dean, Foreign Students** has the responsibility to guide and help the international students.
- Ours is the first ever college in the region to be **selected as Member Microsoft IT Academy Program.** We also offer Diploma in Medical Lab Technology (DMLT) and **NCCMP (Commerce).** All our labs are equipped with latest computers and licenced software. We have a Centralized Research Lab to promote research.
- The College has industrial tie-ups to benefit students with first hand, practical exposure of the industry. Our Placement Cell is very active and **invites blue chip companies for placements.** It facilitates the students in seeking part time jobs so that they earn while they learn. They hold an impressive track record for on-campus placements.
- **In-house publications** of the college give a platform to students to exchange ideas about pertinent issues while learning how to compile, design and monitor printing of

the publications. The students get an opportunity to work as journalists, designers, sub-editors and photographers.

- The college offers special academic support, incentives and concessions to students who excel in sports/academic/literary/extra-curricular events to promote all round development of students.
- The **Counselling Cell** of the college guides students through their psycho-social conflicts and helps them adjust well in society. **Personalised counselling** is offered free of cost. **Behavioural and Emotional counseling** is also provided. The college also has a **student grievance redressal cell**, a **committee against sexual harassment** and an **anti-ragging committee**. Strict action is taken against anyone found guilty of ragging.
- The college has a registered and very active Alumni Association, SDAAC. It helps in placements of our students for internships and also in guidance for various job prospects. The college also has a **Retired Faculty Association**.
- Owing to the progressive academic atmosphere on the campus, we have an impressive percentage of students progressing to higher education and employment. The pass percentage of all the UG streams offered by the college always stays between 98 to 100 percent while that for PG courses like M.Sc. Biotechnology, it has stayed constant at 100 percent. Other PG courses also have high pass percentage ranging between 97-99 percent for majority of them. **Our college is the first choice for top scorers seeking admission to various courses. For centralized admissions to B.Com done by Panjab University**, the highest scorers opt for our college as their first choice of institution and our seats get filled on the first day of the admission process at the university.
- Our students hold an enviable record in clinching **top positions in sports** tournaments at inter-college/inter-university/national/international events, both in indoor and outdoor games.
- Our students have excelled in all PU Zonal and Inter-Zonal youth festivals over the years and have won numerous awards at various prestigious inter-college events. **For the last two years, the College has bagged the overall winner trophy at the Chandigarh Zone-A in PU Zonal Youth and Heritage Festival.**
- The College has an effective feedback mechanism that allows students to provide valuable inputs about the strengths and any possible improvement areas in the college functioning and facilities. Students provide wholesome feedback on pre-defined parameters while offering open-ended comments on courses they have participated. The data is thoroughly analysed by the IQAC.
- The college has an **elected Student Council with representation of both girls and boys**. The president of the student council is a member of the IQAC, ADC, CCASH, Alumni Association and Student Grievances Redressal Cell.

Criterion VI: Governance, Leadership and Management

The Criterion VI encompass with vision and leadership of the institution, strategy development and deployment, faculty empowerment strategies financial management and resource mobilization.

- The GGDSD College Society is successfully running following six institutions: Goswami Ganesh Dutta Sanatan Dharma College, Sector 32-C, Chandigarh; Pt. Mohan Lal S.D. Public School, Sector 32-C, Chandigarh; Pt. Mohan Lal S. D. College for Women, Gurdaspur; Pt. Mohan Lal S. D. College for Girls, Fatehgarh Churian; GGDSD College, KheriGurna, Near Banur; Pt. Mohan Lal S.D. Global School, Batala Road, FatehgarhChurian. The administration of GGDSD College Sector 32-C, Chandigarh is managed by GGDSD Governing Body. The Principal of the College is directly accountable to the Governing Body. Entire administration, academic schedule, college activities and integral management of office bearers, teaching and non teaching staff, is handled under direct supervision of the Principal
- The Management exercises its power to provide the infrastructural, financial, and legal facilities to plan, document, implement, continually improve in its higher education academics and maintain the standards through its Quality Policy and Effective Administrative System.
- The Management gives sufficient freedom to the Principal, the academic head of the institution to function, to fulfill the vision and mission of the institution. Academic responsibilities are fairly divided among all the staff members. Participative decision-making is ensured through staff committees and total participation of all the people concerned.
- Quality improvement strategies are carried out in the areas of teaching & learning, research & development, community engagement, human resource management, and industry interaction.
- The Performance Appraisal System is followed as per the UGC guidelines. Teachers are required to follow a self-appraisal method which presents the academic and professional standing of the individual faculty.
- The college follows a policy EDLI (Employee's Deposit Linked Insurance Scheme) for Life Insurance, and provides Master policy of Group Insurance Scheme(GIS) with LIC for its staff members. The amount can be availed in case of any mishappenning or at retirement as per the rules of the policy. There is a provision to of avail monetary advance from the office and fee concession for the wards of teaching and non-teaching staff.
- All decisions related to financial matters of the college are directly handled by the Principal under GGDSD College Governing Body. The Principal of the college is primarily responsible for looking after routine expenditures and, ensuring effective utilization of financial resources and availed grants.
- The main financial resource of the college is through student tuition fees for regular courses, tuition fees from various self-financing courses at U.G as well as P.G level,

sanctioned grants from Funding Agencies/ DBT/UGC and Salary Grant (Grant in Aid) received from Director Higher Education, UT Chandigarh Administration. The deficit, if any, is managed by the GGDSD College Society by reserved/students fund or through personal loans.

Criterion VII: Innovations And Best Practices

The Criterion VII deals with environment consciousness, innovations and best practices

- The college ensures that environmental issues are taken up seriously for the campus. A complete record of trees growing on the campus is maintained, each being duly marked. The unauthorized felling/cutting of trees is not permissible. In fact, a stringent policy of planting four plants in place of death or removal of one plant, is followed. **More than 650 trees and plants** have been planted on campus.
- Economically weak students are offered part-time jobs on the campus. This is to facilitate financial assistance and also to train them in administrative skills for their future endeavors. This is directly helping the students gain professional confidence and in-house training.
- **Manasuday, the stress management centre** on the campus, is a unique feature of the institution. This initiative is with the sole objective of taking care of the stress levels of individuals, including teachers and students, in the competitive contemporary time. The aim of the centre is to help students deal with their everyday anxiety and stress with the help of the counsellors from the psychology department of the college.
- The college has introduced **complete automation** in the year 2015-16. Before this, the administrative work was carried through ERP Solution named '**Campus Analyzer**'. In the year 2015-16, the college, in collaboration with TCS iON, has also worked on hosting Learning Exchange solution, LX system, which proves to have the additional advantage of being rapidly deployable in terms of platform as well as content delivery to staff and students.
- The members of the teaching **staff are given incentives** on accomplishing Ph.D. and M.Phil. degrees while pursuing their professional career at the college.
- Students from affluent families who receive scholarships are encouraged to **donate the scholarship amount to the economically weaker and needy students** for pursuing higher studies. Students also avail facility of special (remedial & meritorious) classes and accident insurance scheme.
- We have a commendable tradition of voluntary contribution of **one-day salary by each member of the staff (teaching and non-teaching) on the retirement** of a colleague and contribution of **five-day salary by each employee on the death in service of a colleague**.

SWOC Analysis of the Institution**STRENGTHS**

- One of the biggest strengths of the institution is its effort to bring total transparency in the system by effectively implementing e-governance. The college has been continuously making efforts for total automation of teaching and administration through ERP solution (TCSiON). The implementation of e-governance through TCSiON has been effectively carried out since its initiation by taking maximum number of academic tasks online, like student attendance, entry of marks, entry of leaves & absentees, uploading and downloading tutorials/ assignments, online search for book/study material etc.
- Regular Faculty Development Programmes and ISW (Instructional Skill Workshops) are aimed at imparting participatory learning and are a fascinating opportunity for the faculty to explore the various aspects of teaching and learning. The college holds Instructional Skill Workshops (ISWs), an internationally recognised peer based educational development programme, on regular basis. It has been introduced to facilitate a platform for teachers to upgrade and update themselves in terms of teaching skills and pedagogy. The ISW is offered within a small group setting, and is designed to enhance the teaching effectiveness of both new and experienced educators. During the one-week long workshop, the participants design and conduct three mini lessons and receive verbal, written and video feedback from the other participants who have been learners in the mini lessons. The workshop encourages reflection and examination of one's teaching practice with feedback focused on the learning process rather than on the specific content of the lesson.
- The college treasures best intellectual capital by hiring highly qualified and trained faculty. More than 90 faculty members hold PhD and 31 are M.Phil and 05 faculty members have additional professional degrees like CS, LLB, and MCSE etc. The faculty is continuously engaged in quality research and publication and in the last four years itself the faculty has to its credit 418 research publications. Apart from academic duties, the faculty carries other important responsibilities like coordinating IQAC, University examinations, Accounts, Grievances Redressal, Sexual Harassment etc. The faculty also engages in the overall development of students by organizing various extracurricular activities and executing activities towards society.
- The college Library has the best and the latest books and journals. At present the library houses 67,598 books, 2,79,000 e-books & Journals and also INFLIBNET facilities.
- Our college is the first choice of the students in this part of the region and we get the best talent of students from almost all the states of India and also neighboring countries.
- Our students bring laurels by consistently achieving top University positions in academics, sports and other extracurricular activities.
- The college has State-of –the art infrastructure with 75 class rooms, 21 Smart Class rooms 8 Seminar halls, 49 well equipped labs 2 hostels each for boys and girls, sports grounds, indoor games facilities and a fully automated and unique auditorium with a seating capacity of 1000 people.
- The institution has been constantly aware of its social responsibility and sensitivity towards environmental issues. The college has been running Mrs. Kaushalya Devi Verma charitable Institute since 2000 to impart free vocational training in cutting and tailoring, computer literacy and beauty culture. The trainees of Kaushalya Devi

Institute learn to stand on their own feet and hence not only become self sufficient but also contribute to the family's income.

The college has adopted Dr. B.R Ambedkar School for the education and development of the children of the marginalized sections of the society. It helps to boost the confidence of the students to be at par with the other Children.

The students under the 'Spirit India' – A voluntary organization of the college learn to work together for a cause that nurture our nation's value system in future.

WEAKNESSES

- The college is facing space crunch for more classrooms due to constraints of Floor Area Ratio (FAR).
- Since the college is affiliated to Panjab University, it has to follow the course content prescribed by the University. Though the faculty tries to enrich the curriculum through analysis and interpretation, the course content is usually not in sync with the latest global standards.
- The government has not sanctioned any grant –in –aid posts after 1982 and the college has, on its own, appointed 47 regular faculty members and more than 87 adhoc and guest faculty to efficiently run the courses.

OPPORTUNITIES

- The college plans to get two more research centers in the department of Commerce and Economics respectively.
- The college is working towards becoming an autonomous college.
- We see an opportunity in bringing efficient changes in teaching by using IT enabled resources and by providing more smart classrooms.

CHALLENGES

- To implement choice based credit system in the coming sessions.
- To raise the level of Faculty Development Programmes.
- To develop research oriented aptitude amongst students.

SECTION B: PROFILE OF THE INSTITUTION**1. Profile of the Affiliated / Constituent College****1. Name and Address of the College:**

Name:	Goswami Ganesh Dutta Sanatan Dharma College	
Address:	Sector 32 C, Chandigarh	
City:	Pin: 160030	State: Chandigarh
Website:	www.ggdsd.ac.in	

2. For communication:

Designation	Name	Telephone with STD code	Mobile	Fax	Email
Principal	Dr. Bhushan K. Sharma	O: 0172-4912400	9646002816	0172-2661077	bhushan2816@yahoo.com
NAAC Coordinator	Mrs. Ashima Dhir	O: 0172-4912400	9815982435	0172-2661077	dhir.ashima@gmail.com

3. Status of the Institution:

Affiliated College
Constituent College
Any other (specify)

✓

4. Type of Institution:**a. By Gender**

- i. For Men
- ii. For Women
- iii. Co-education

✓

b. By Shift

- i. Regular
- ii. Day
- iii. Evening

✓

5. It is a recognized minority institution?

Yes

No

☒

If yes specify the minority status (Religious/linguistic / any other) and provide documentary evidence.

6. Sources of funding:

Government

Grant-in-aid

Self-financing

Any other

✓

7. a. Date of establishment of the college: 10/04/1973**b. University to which the college is affiliated / or which governs the college (If it is a constituent college)**

Panjab University, Chandigarh

c. Details of UGC recognition:

Under Section	Date, Month & Year (dd-mm-yyyy)	Remarks (If any)
i. 2(f)	08/10/1976	Certificate enclosed
ii.12(B)	08/10/1976	Certificate enclosed

(Enclose the Certificate of recognition u/s 2 (f) and 12 (B) of the UGC Act)

d. Details of the recognition/approval by the statutory/regulatory bodies other than UGC. (AICTE, NCTE, MCI, DCI, PCI, RCI, etc.)

Under Section/ clause	Recognition/ Approval details Institution/Department Programme	Day, Month and Year (dd-mm-yyyy)	Validity	Remarks
i.	NOT APPLICABLE	-	-	-
ii.	NOT APPLICABLE	-	-	-
iii.	NOT APPLICABLE	-	-	-
iv.	NOT APPLICABLE	-	-	-

(Enclose the recognition/ approval letter)

8. Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?Yes ☒ No

If yes, has the College applied for availing the autonomous status?

Yes No ☒**9. Is the college recognized?****a. by UGC as a College with Potential for Excellence (CPE)?**Yes ☒ No

If yes, date of recognition: 01/06/2006

b. for its performance by any other governmental agency?Yes ☒ No

If yes,

(i) Name of the agency D.B.T. and Date of recognition: 05/03/2009(ii) Name of the agency D.S.T. and Date of recognition: 01/11/2010**10. Location of the campus and area in sq. mts:**

Location	Urban
Campus area in sq. mts.	66056.40 sq.mts.
Built up area in sq. mts.	30534.18 sq.mts.

(* Urban, Semi-urban, Rural, Tribal, Hilly Area, Any other specify)

11. Facilities available on the campus (Tick the available facility and provide numbers or other details at appropriate places) or in case the institute has an agreement with other agencies in using any of the listed facilities provide information on the facilities covered under the agreement.

- Auditorium/ seminar complex with infrastructural facilities : ✓ (Yes)
- **Sports facilities**
 - * Play ground ✓ (Yes)
 - * Swimming pool
 - * Gymnasium ✓ (Yes)
- **Hostel**
 - * **Boys hostel**
 - i. **Number of hostels.** 02
 - ii. **Number of inmates.** 275
 - iii. **Facilities (mention available facilities)**
{Wi-Fi, Gym, Air-conditioned Mess, Living Room, Sports Facility, Canteen, Stationery Shop, Medical Facility}

*** Girls hostel**iv. **Number of hostels.** 02v. **Number of inmates.** 325**vi. Facilities (mention available facilities)**

Wi-Fi, Gym, Air-conditioned Mess, Living Room, Sports Facility, Canteen, Stationery Shop, Medical Facility

*** Working women's hostel**vii. **Number of hostels.** Not Applicableviii. **Number of inmates.** Not Applicableix. **Facilities (mention available facilities)****Residential facilities for teaching and non-teaching staff (give numbers available – cadre wise)**

Teaching : 05

Non-Teaching : 12

- Cafeteria : ✓ (Yes)
- Health Centre : ✓ (Yes)
- First Aid : ✓ (Yes)
- Inpatient : Nil
- Outpatient : ✓ (Yes)
- Emergency care facility : ✓ (Yes)
- Ambulance : Nil

Health Centre Staff –Qualified doctor Full-time Part- time ☒Qualified Nurse Full-time Part-time ☒

- Facilities like banking, post office, book shops: ✓ (Yes)
- Bank, Photostat & Gift Shop
- Transport facilities to cater to the needs of students and staff : 3 Cars
- Animal house: No
- Biological waste disposal: ✓ (Yes)
- Generator or other facility for management/ regulation of electricity and Voltage ✓ (Yes)
- Generator : 4
- Transformer for regulation of Electricity and Voltage: 1
- Solid waste management facility ✓ (Yes)
- Waste water management ✓ (Yes)
- Water harvesting ✓ (Yes)

12. Details of programmes offered by the college (Give data for current academic year)

S. No	Programme Level	Name of the Programme/ Course	Duration in year	Entry Qualification	Medium of Instruction	Sanctioned/approved Student strength	No. of students admitted
1	Under-Graduate	B.A.	3 year	10+2	English	Unlimited	1826
2		B.Sc.	3 year	10+2	English	Unlimited	1058
3		B.Com.	3 year	10+2	English	1038	1034
4		BBA	3 year	10+2	English	360	419
5		BCA	3 year	10+2	English	360	331
6		B.Sc. (Hons) Biotechnology	3 year	10+2	English	90	81
7		B.Sc. (Hons) Bioinformatics	3 year	10+2	English	90	56
8		B. Voc. Retail Management	3 year	10+2	English	50	61
9		B. Voc. Food Processing & Preservation	3 year	10+2	English	50	28
10		B. Voc Agri Business & Agrarian Entrepreneurship	3 year	10+2	English	50	05
11		B.Voc Fashion Technology & Apparel Design	3 year	10+2	English	50	20
12		B.Voc Hardware and Networking	3 year	10+2	English	50	10
1	Post-Graduate	M.Com.	2 year	Graduate	English	80	112
2		MBE	2 year	Graduate	English	80	38
3		MEFB	2 year	Graduate	English	80	54
4		M.Sc. IT	2 year	Graduate	English	80	68
5		M.Sc. Bioinformatics	2 year	Graduate	English	80	18
6		M.Sc. Biotechnology	2 year	Graduate	English	80	49
7		M.Sc. Physics	2 year	Graduate	English	80	94
8		M.Sc. Applied Chemistry (Pharmaceutical)	2 year	Graduate	English	80	49
9		M.A. Economics	2 year	Graduate	English	80	123
1	Ph.D.	Ph.D. in Biotechnology	3 year	M.Sc. JRF-NET	English	--	01

2		Ph.D. in Chemistry	3 year	M.Sc. J.R.F. N.E.T.	English	--	02	
1	PG Diploma	PGDCA	1 year	Graduate	English	60	38	
2		PGDCGA	1 year	Graduate	English	30	04	
3		PGDMM	1 year	Graduate	English	60	36	
4		PGDPM & LW	1 year	Graduate	English	60	10	
5		PGDMC	1 year	Graduate	English	30	30	
1	UG Diploma	Medical Lab Technician	1 year	10+2	English	50	17	
1	Certificate Courses	NCCMP	4-6 months	10+2	English	40	14	
2		Stitching & Tailoring Course	1 year	8 th	English/ Hindi	45	40	
3		Beauty Culture	1 year	10 th	English/ Hindi	40	40	
	TOTAL							5766

13. Does the college offer self-financed Programmes?

Yes



No

If yes, how many

46

14. New programmes introduced in the college during the last five years if any?

Yes	☒	No		Number	11

Year 2010-11:

1. Post Graduate Diploma in Computer Graphics & Animation

Year 2013-14:

1. M.A. Economics

Year 2014-15:

1. B.Voc.-Food Processing & Preservation
2. B.Voc.-Retail Management
3. Diploma Medical Lab Technology
4. M.Sc. Physics
5. Ph.D Research Centre in Biotechnology
6. Ph.D Research Centre in Chemistry

Year 2015-16:

1. B.Voc. (Agri Business & Agrarian Entrepreneurship)
2. B.Voc. (Fashion Technology & Apparel Design)
3. B.Voc. (Hardware and Networking)

15. List the departments: (respond if applicable only and do not list facilities like Library, Physical Education as departments, unless they are also offering academic degree awarding programmes. Similarly, do not list the departments offering common compulsory subjects for all the programmes like English, regional languages etc.)

Faculty	Departments (eg. Physics, Botany, History, etc.)	UG	PG	Research
Science	Biochemistry	✓		
	Bioinformatics	✓	✓	
	Biotechnology	✓	✓	✓
	Botany	✓		
	Chemistry	✓	✓	✓
	Microbiology	✓		
	Physics	✓	✓	
	Zoology	✓		
Arts	Economics	✓	✓	
	Journalism & Mass Communication	✓		
	History	✓		
	Music	✓		
	Psychology	✓		
	Fashion Designing	✓		
	Public Administration	✓		
	Mathematics	✓		
	Statistics	✓		
	Political Science	✓		
	Sociology	✓		
Commerce	Commerce & Management	✓	✓	
Information Technology	Information Technology	✓	✓	
Deen Dayal Upadhyay KAUSHAL Kendra	B.Voc Retail Management Food Processing & Preservation Hardware & Networking Fashion Technology & Apparel Design Agri Business & Agrarian Entrepreneurship	✓		
Community College Scheme	Diploma Medical Lab Technology			

16. Number of Programmes offered under (Programme means a degree course like B.A., B.Sc., M.A., M.Com., ...)

- a. annual system
- b. semester system
- c. trimester system

25

17. Number of Programmes with

- a. Choice Based Credit System
- b. Inter/Multidisciplinary Approach
- c. Any other
(specify and provide details)

06

18. Does the college offer UG and / or PG programmes in Teacher Education?

Yes

No

☒

If yes,

- a. Year of Introduction of the programme(s)..... (dd/mm/yyyy)
and number of batches that completed the programme
- b. NCTE recognition details (if applicable) Notification
No.:
Date: (dd/mm/yyyy)
Validity:
- c. Is the institution opting for assessment and accreditation of Teacher
Education Programme separately?

Yes

No

☒
19. Does the college offer UG or PG programme in Physical Education?

Yes

No

☒

If yes,

- a. Year of Introduction of the programme(s)(dd/mm/yyyy)
and number of batches that completed the programme
- b. NCTE recognition details (if applicable)
Notification No.: Date:
(dd/mm/yyyy) Validity:.....
- c. Is the institution opting for assessment and accreditation of Physical Education
Programme separately?
Yes No

20. Number of teaching and non-teaching positions in the Institution

Positions	Teaching Faculty						Non-teaching staff		Technical Staff		Total
	Professor		Associate Professor		Assistant Professor						
	*M	*F	*M	*F	*M	*F	*M	*F	*M	*F	
Sanctioned by the UGC/ University/ State Government Recruited	01	-	14	09	13	22	20	-	-	-	79
Yet to recruit											
Sanctioned by the Management society or other authorized bodies Recruited			01	-	14 10 (A/T)	40 72 (A/T)	36	14	04	-	191
Yet to recruit											
Total											270

*M- Male

*F- Female

(A/T)- Adhoc/Temporary

21. Qualification of the teaching staff:

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent							
D.Sc./D.Litt.							
Ph.D.	01		12	03	16	42	74
M.Phil.			02	05	01	07	15
PG			01	01	01	22	25
Temporary							
Ph.D.	-	-	-	-	04	14	18
M.Phil.	-	-	-	-	01	06	07
PG	-	-	-	-	07	28	35
Part-time							
Ph.D.	-	-	-	-	01	03	04
M.Phil.	-	-	-	-	-	03	03
PG	-	-	-	-	03	12	15

22. Number of Visiting Faculty / Guest Faculty engaged with the College.

28

23. Furnish the number of the students admitted to the college during the last four academic years.

Categories	Year 2011-12		Year 2012-13		Year 2013-14		Year 2014-15	
	Male	Female	Male	Female	Male	Female	Male	Female
SC	118	83	133	110	108	102	140	102
ST	08	07	06	05	05	06	08	07
OBC	16	16	22	14	22	15	26	12
General	1490	1715	1664	1673	2100	2025	2357	2343
Others (PH)	01	00	03	00	01	00	07	00
TOTAL	3454		3630		4384		5002	

24. Details on students enrollment in the college during the current academic year.

Type of students	UG	PG	M.Phil.	Ph.D.	Total
Students from the same state where the college is located	1210	219	--	03	1432
Students from other states of India	3623	645	--	--	4268
NRI students	NIL	NIL	--	--	NIL
Foreign students	66	00	--	--	66
Total	4899	864	--	03	5766

25. Dropout rate in UG and PG (average of the last two batches)

UG	3.78%
PG	5.97%

26. Unit Cost of Education

(Unit cost = total annual recurring expenditure (actual) divided by total number of students enrolled)

(a) Including the salary component	Rs. 20,322.56
(b) Excluding the salary component	Rs. 6,487.48

27. Does the college offer any programme/s in distance education mode (DEP)?

Yes No ☒

If yes,

- a) Is it a registered centre for offering distance education programmes of another University.

Yes No

- b) Name of the University which has granted such registration.
 c) Number of programmes offered.
 d) Programmes carry the recognition of the Distance Education Council.

Yes

No

28. Provide Teacher-student ratio for each of the programme / course offered

S.No.	Name of Programme	Total Student	Total Teacher	Teacher: Student Ratio
1	B.Sc.	1058	43	1:24
2	BA	1826	72	1:25
3	BBA	419	22	1:19
4	BCA	331	19	1:17
5	B.Com.	1034	60	1:17
6	B.Sc. (Hons) Biotechnology	81	03	1:27
7	B.Sc. (Hons) Bioinformatics	56	02	1:25
8	B. Voc. Retail Management	61	1.5	1:27
9	B. Voc. Food Processing	28	1.5	1:14
10	DMLT	17	02	1:8
11	MBE	38	2.5	1:18
12	M.Com	112	05	1:21
13	MEFB	54	02	1:25
14	PGDMM	36	02	1:18
15	PGDPMLW	10	02	1:5
16	M.Sc. in Applied Chemistry (Pharmaceutical)	49	02	1:24
17	M.Sc. in Physics	94	04	1:23
18	M.Sc. in Bio Technology	49	2.5	1:19
19	M.Sc. in Bio Informatics	18	2.5	1:6
20	MA Economics	123	05	1:24
21	PGDMC	30	02	1:15
22	PGDCA	38	03	1:12
23	M.Sc in Information Technology	68	03	1:22
24	PGDCGA	04	03	1:1
25	B. Voc. (Agri-business and Agrarian Entrepreneurship)	05	03	1:1
26	B. Voc. (Fashion Technology and Apparel Design)	20	03	1:4
27	B. Voc. (Hardware and Networking)	10	03	1:2
28	Certificate Course NCCMP	14	05	1:3
29	Certificate Course in Stitching & Tailoring	40	01	1:40
30	Certificate course in Beauty Culture	40	01	1:40
31	Ph.D in Biotechnology	-	01	-
32	Ph.D in Chemistry	-	02	-

29. Is the college applying for

Accreditation:

Cycle 1 ☐ Cycle 2 ☐ Cycle 3 ☒ Cycle 4 ☐

Re-Assessment:

*(Cycle 1 refers to first accreditation and Cycle 2, Cycle 3 and Cycle 4 refers to re-accreditation)***30. Date of accreditation* (applicable for Cycle 2, Cycle 3, Cycle 4 and re-assessment only)**Cycle 1: 08/01/2004 Accreditation Outcome/Result B++/ 83.05Cycle 2: 16/09/2011 Accreditation Outcome/Result A/3.16 (CGPA)

Cycle 3: Accreditation Outcome/Result

*** Annexure 1****31. Number of working days during the last academic year.**

216

32. Number of teaching days during the last academic year*(Teaching days means days on which lectures were engaged excluding the examination days)*

191

33. Date of establishment of Internal Quality Assurance Cell (IQAC)IQAC 01/01/2005**34. Details regarding submission of Annual Quality Assurance Reports (AQAR) to NAAC.**

AQAR (i) 21/03/2013

AQAR (ii) 12/12/2014

AQAR (iii) 27/12/2014

AQAR (iv) 03/09/2015

35. Any other relevant data (not covered above) the college would like to include. (Do not include explanatory/descriptive information)

NIL

CRITERION I: CURRICULAR ASPECTS

1.1 Curriculum Planning and Implementation

1.1.1 State the Vision, Mission and Objectives of the institution and describe how these are communicated to the students, teachers, staff and other stakeholders.

Vision

To emerge as a centre of excellence in the country imparting quality education, providing research facilities and consultancy services that meet the requirements of today's global market and societal needs.

Mission

To disseminate knowledge that nurtures students to meet the highest standards of competence and professionalism as well as to ground them firmly in a sound value system.

Objectives

To strive towards excellence in teaching, learning, research and implementation:

- To provide the faculty and students with all the necessary resources and aids for academic development for effective learning.
- To promote innovation and development of new courses/certificate programs and revision of existing academic courses with changing times.
- To increase the strength of learning by providing opportunities for interaction via tie-ups or partnerships with other reputed educational institutes and industries.
- To explore new modes of delivering lectures via audio-visual techniques (ICT) and faculty development programs. To upgrade to the latest technology for academic and administrative applications and maintain an effective IT workforce to ensure data accuracy, backup services and appropriate safeguarding of the record of the college.
- To provide student-centric environment and ambience to the institution that is conducive to teaching and learning.
- To maintain strong student support facilities and student involvement through regular campus events and field trips.
- To ensure complete student safety within the college community.
- To make the college an exemplary institute by developing a symbiotic relationship with the community by external partnerships, helping in preservation of natural resources and promoting spirit of community service in students, faculty and staff.

The vision, mission and objectives are communicated to the students through the following:

- Prospectus
- College Website
- Print Media
- ERP Solution for Campus Management through TCS
- Audio-Visual aids
- Electronic Display
- Induction Programs
- General Tutorials (Monthly)
- Departmental meetings for Faculty Members
- Regular Staff Meetings

1.1.2. How does the institution develop and deploy action plans for effective implementation of the curriculum? Give details of the process and substantiate through specific examples.

The institution develops and deploys action plans for effective implementation of the curriculum in the following ways:

- The Academic Development Council (ADC) and Internal Quality Assurance Cell (IQAC), keeping in view the Academic Calendar, prepare an action plan for academic-related activities.
- The Heads of Departments instruct faculty or teams of faculty members to prepare semester-wise division of syllabus and to set question papers on house tests, special tests, and final exams.
- The syllabus is communicated to the students at the beginning of each semester.
- Various teaching methodologies are employed in the classroom to make teaching engaging and interesting such as power point presentations, quizzes, in-class assignments, class tests, student presentations, group discussion, debates, and through brain storming.
- The college organizes field trips for students to workplace sites so as to provide them practical experience related to their subjects.

1.1.3 What type of support (procedural and practical) do the teachers receive (from the university and/or institution) for effectively translating the curriculum and improving teaching practices?

The university provides the institution with the academic calendar for every academic session. It further conducts orientation courses, refresher courses, seminars and workshops for faculty members.

The college provides the curricular calendar and supports the faculty members through the following:

Infrastructural Facilities:

- The college provides an excellent infrastructure with sufficient number of classrooms, ultra-modern auditorium, and seminar halls well equipped with projector screens and audio visual aids, conference room and laboratories.
- There are adequate internet facilities and a digital library. ICT enabled teaching is preferred to supplement the lecture method.
- Sufficient supplementary e-resources and reading material such as books, research journals and magazines of all kinds are provided in the library to enhance teaching and learning.

Training Program

- The college organizes regular Faculty Development Programs (FDP) for the faculty members in accordance with the current academic trends for enhancement of teaching skills.
- The college conducts an exclusive one week workshop in accordance with International Standards – ISW which is a peer based educational development program in partnership with University of the Fraser Valley, Canada.
- Dignitaries and academicians are invited from time to time for delivering guest lectures and training for the faculty members in connection with the curriculum.
- The college encourages its faculty members to pursue academic research, present papers in national and International seminars and conferences.

1.1.4 Specify the initiatives taken up or contribution made by the institution for effective curriculum delivery and transaction on the curriculum provided by the affiliating university or other statutory agency.

Initiatives taken up and contribution made by the college for effective curriculum delivery and **transaction on the curriculum** provided by the affiliating university or other statutory agency include the following:

- The college organizes **workshops, seminars and talks by experts** from industry and from various universities to deliver the curriculum effectively and to keep the students informed about recent trends and developments.
- The college keeps the **faculty updated and abreast** with latest teaching methodologies by **conducting workshops** (FDPs) such as ISW (Instructional Skills Workshop) so that the curriculum is delivered effectively.
- The college equips the faculty with **multimedia aids and smart classrooms** for enhancing their lectures. The **fully automated** system provided by **TCS** makes the delivery and transition of curriculum very effective and sophisticated.
- As per university requirements the college conducts **project works for students** of BBA, Psychology, B.Com, B.Sc., BCA, M.Com, BA Functional English, Journalism and M.Sc. in order to enhance their knowledge base and skills in their respective fields.

General Tutorial classes are regularly organised for all students where topics pertaining to the syllabus and other topics of social significance are discussed.

‘**Add-on classes**’ in areas such as advertising, functional English, video reporting cosmetology, and information technology etc are offered to students to provide them a holistic education and develop their practical skills.

The Placement Cell of the college organizes **pre-placement training** for students in order to increase their chances of attaining suitable employment.

The well furnished **college library** is kept updated with the latest editions of books related to curriculum as well as to the fields outside the curriculum for the students to further their academic interests. The library is a member of **INFLIBNET N-List Program** through which it provides access to about 6,000 e-journals and more than 1,35,000 e-books from various reputed publishers.

1.1.5 How does the institution network and interact with beneficiaries such as Industry, research bodies and the university in effective operationalisation of the curriculum?

The university provides curriculum for all courses being run in the institute, many of which require networking and interaction with beneficiaries such as Industry, Research Bodies and the University itself for its effective operationalization. While education and training are vital to students’ skill development, the institution also provides On-the-Job experience and Practical training to its students through such associations with beneficiaries.

Industry

The Placement Cell of institution maintains professional relations with representatives of industry. The HR managers of various companies are invited to the college campus to interact

with the students. Reputed industries conduct in-campus recruitment programs on a wide scale. The institution invites experts and professionals from various departments in corporate houses (industry) through its Placement Cell. It organizes lectures, talks and interactive sessions for students through regular seminars and industrial visits. These activities make students aware of the utility of subjects being taught to them in their curriculum and acquaint them with putting theory into practice. Furthermore-

- The institution ties up with many Industrial firms, companies and agencies in order to provide Practical Training to its students enrolled in various courses such as B. Voc (Food Processing), DMLT (Diploma in Medical Lab Technology), Skill development program of NSDC, etc. The training follows the 'learning by doing' approach. The students train/intern with reputed companies to fully meet the requirements on their curriculum.
- The college has Industrial partnerships with leading retail companies which are renewed from time to time for skill development of students enrolled in courses such as B.Voc. The curriculum for the same is based on close consultation with the industry to prepare entry level and experienced executives and managers for a career in the retail sector. The association between the institution and industry ensures extensive and on-the job training along with periodic industrial visits and industry interactions.
- The institution's link with multinational consultancy service providers/ business solution companies such as Tata Consultancy Services, Mumbai, ensures Automation and ERP Solutions so that the curriculum is first communicated to the students effectively and thereafter their academic and curricular records maintained and reviewed.

Research Bodies

The institution maintains academic and professional relations with various research bodies and Research and Development institutes. The institution networks and interacts with beneficiaries such as Research Bodies for effective operationalization of curriculum through lectures by experts, seminars and exchange programs. To keep the research component alive in the campus, the faculty members of the college are motivated to take up research projects. Faculty members keep interacting with various research bodies and participate in research projects of diverse domain by regularly attending conferences, seminars, workshops etc. offered by research bodies. Such participations help the faculty in its self growth which in turn aids in disseminating more knowledge to students and effective delivery of curriculum. This also facilitates understanding of current professional, academic and technological developments and practices in public and private sector at large.

Panjab University

The university provides curricula for various courses being run in the institution. The faculty members of the college keep interacting regularly with their counter parts at the affiliated university and get latest information regarding subjects taught by them. They keep themselves updated about the upcoming academic events, conferences, seminars, refresher and orientation courses. Such interaction keeps the faculty abreast of the latest changes in syllabus and trains them for effective delivery of curriculum as per the need of the hour. Furthermore, professors and speakers from industries are invited for delivering lectures of current significance. They are made to interact with the faculty and students in a question-answer session. The institution also engages various teacher training and student exchange programs.

Table 1.1

For effective operationalisation of the curriculum, the following MOU's have been signed

S.No	Scope of Interaction	Course	Name of Company	Year of MOU
1	Automation Solutions	ERP Solutions	Tata Consultancy Services	2015
2	Industrial tie up for Practical Training	B.Voc Hardware & Networking	National Institute of Electronics & Information Technology, Mohali	2015
3	Industrial tie up for Practical Training	B.Voc Agri. Business and Agrarian Entrepreneurship	Dairy development Board Panjab	2015
4	Industrial Training	B.Voc Fashion Technology & Apparel Design	Nahar Fabrics, Lalru, Pb. Innovative designs, Delhi.	2015
5	Industrial tie up	B.Voc Food Processing and Preservation	HPMC Ltd.Fruit Processing Plant (Solan)	2014
6	Industrial tie up	B.Voc Retail Management	Big Bazaar & Metro Cash and Carry Zirakpur, Punjab.	2014
7	Retail Sector Training Program	NSDC	EoS Eduventures Pvt. Ltd.,	2014
8	Industrial tie up	DMLT	Satyam Diagnostics lab Sector 45,Chd. SRL Lab Sector 32, Chd	2014
9	Industrial tie up	.NET	Microsoft Corporation India Pvt.LTD Gurgaon	2013
10	Coaching & Training	NCCMP	National Stock Exchange	2011
11	MoU	BBA	University of Fraser Valley , Canada	2006
12	Twining Program	Student Teacher Exchange Collaboration	Alliance Francaise Sector 36 Chd	2007
13	Campus Analyser	ERP Solutions	Shalimar Infotech Pvt.LTD Sector 8,Chd	2006

1.1.6 What are the contributions of the institution and /or its staff members to the development of the curriculum by the University?(Number of the staff members /departments represented on the Board of Studies ,student feedback, teacher feedback, stakeholder feedback provided, specific suggestions etc?)

Ours is the only college in the region to have developed its own curriculum for different types of Add-on and Innovative courses. The curriculum is sent to the university to be taken up by different bodies. Similarly, the college has developed its own curriculum for five B.Voc courses and one DMLT course recently.

In addition to that, our college has made major contribution in the field of curriculum design by the university through our staff representation in the Board of Studies. The following table indicates the representation of the faculty in the Board of Studies:

Table 1.2
Board of Studies
2014-15 & 2015-16

S. No	Name of Faculty	Subject	Name of University
1	Dr. Jagwant Singh	Faculty of Business Commerce and Mgt., Faculty of laws, Faculty of Arts, Faculty of Education, University Institute of Legal Studies(UILS)	Panjab University, Chandigarh
2	Dr. Ashok Mahajan	Faculty of Business Commerce and Management	Panjab University, Chandigarh
3	Dr. Balraj Thapar	English (Faculty of Languages)	Panjab University, Chandigarh
4	Dr. Safri Lal	Physical Education (UG Board of Studies)	Panjab University, Chandigarh
5	Mr. Ajay Sharma	Faculty of Business Commerce and Management PG Board of Studies	Panjab University, Chandigarh
6	Dr. Sanjeev Soni	Chemistry & Industrial chemistry (PG Board of Studies)	Panjab University, Chandigarh
7	Dr. Navneet Batra	Biotechnology (Faculties of Microbiology, Bioinformatics, Biotechnology)	Panjab University, Chandigarh
8	Ms. Pooja Sareen	English (University Media School)	Chandigarh University
9	Dr. Amit Mohindroo	Commerce (UG Board of Studies)	Panjab University, Chandigarh
10	Dr. Diksha	Faculty of Business Commerce and Management	Panjab University, Chandigarh

11	Mr. Gagandeep Sharma	Economics (UG Board of Studies)	Panjab University, Chandigarh
12	Ms. Sumita Sikka	Fashion Designing	Panjab University, Chandigarh
13	Ms. Pooja Sareen	Journal Studies and Mass Communication (UG and PG Board of Studies)	Chandigarh University
14	Mr. Rakesh Mehta	Public Administration (UG Board of Studies)	Panjab University, Chandigarh

2013-14 & 2014-15

S. No	Name of Faculty	Subject	Name of University
1	Dr. Jagwant Singh	Faculty of Business Commerce and Management Faculty of laws, Faculty of Arts, Faculty of Education, (UILS)	Panjab University, Chandigarh
2	Dr. Ashok Mahajan	Faculty of Business Commerce and Management	Panjab University, Chandigarh
3	Dr. Balraj Thapar	English (Faculty of Languages)	Panjab University, Chandigarh
4	Dr. Safri Lal	Physical Education (UG Board of Studies)	Panjab University, Chandigarh
5	Mr. Ajay Sharma	Faculty of Business Commerce and Management PG Board of Studies	Panjab University, Chandigarh
6	Dr. Sanjeev Soni	Chemistry & Industrial chemistry (PG Board of Studies)	Panjab University, Chandigarh
7	Dr. Navneet Batra	Biotechnology (Faculties of Microbiology, Bioinformatics, Biotechnology)	Panjab University, Chandigarh
8	Dr. Amit Mohindroo	Commerce (UG Board of Studies)	Panjab University, Chandigarh
9	Dr. Diksha	Faculty of Business Commerce and Management	Panjab University, Chandigarh
10	Mr. Gagandeep Sharma	Economics (UG Board of Studies)	Panjab University, Chandigarh

2012-13 & 2013-14

S. No	Name of Faculty	Subject	Name of University
1	Dr. Jagwant Singh	Faculty of Business Commerce and Management, Faculty of laws, Faculty of Arts, Faculty of Education, University Institute of Legal Studies(UILS)	Panjab University, Chandigarh
2	Dr. Ashok Mahajan	Faculty of Business Commerce and Management	Panjab University, Chandigarh
3	Dr. Safri Lal	Physical Education (UG Board of studies)	Panjab University, Chandigarh
4	Dr. Balraj Thapar	English (Faculty of Languages)	Panjab University, Chandigarh
5	Mr. Ajay Sharma	Faculty of Business Commerce and Management, PG Board of studies	Panjab University, Chandigarh
6	Dr. Navneet Batra	Biotechnology (Faculties of Microbiology, Bioinformatics, Biotechnology)	Panjab University, Chandigarh
7	Ms. Sumita Sikka	Fashion Designing	Panjab University, Chandigarh
8	Ms. Ashima Dhir	English (UG Board of studies)	Panjab University, Chandigarh

2011-12

S. No	Name of Faculty	Subject	Name of University
1	Dr. Jagwant Singh	Faculty of Business Commerce and Management	Panjab University, Chandigarh
2	Dr. Ashok Mahajan	Faculty of Business Commerce and Management	Panjab University, Chandigarh
3	Dr. Balraj Thapar	English (Faculty of languages)	Panjab University, Chandigarh
4	Dr. Safri Lal	Physical Education((UG Board of Studies)	Panjab University, Chandigarh
5	Mr. Ajay Sharma	Commerce Faculty of Business Commerce and management PG Board of Studies	Panjab University, Chandigarh
6	Dr. Navneet Batra	Biotechnology (Faculties of Bioinfomatics, Biotechnology)	Panjab University, Chandigarh
7	Ms. Sumita Sikka	Fashion Designing	Panjab University, Chandigarh
8	Ms. Ashima Dhir	English (UG Board of Studies)	Panjab University, Chandigarh

Student feedback

The college obtains feedback from the students through questionnaire on

- Evaluation of course content and teaching.
- Evaluation of program of study.
- Exit questionnaire from the final year students before the University Examinations.

The information thus obtained by IQAC is transferred to the Heads of the Departments for their use in the modification of curriculum.

Teachers' Feedback

Departmental meetings with Heads of the Departments are held at the start and the end of each term regarding effectiveness of the syllabus and requisite changes are suggested. The changes suggested are conveyed to the Heads of the Departments. The changes to be made in the various courses are discussed by the elected and nominated members of the college in the Board of Studies meetings (both undergraduate and postgraduate) at the university.

Stakeholders Feedback

Written feedback from parents and Alumni is obtained by the college.

Parents' Feedback

Feedback on Curriculum from parents is obtained and changes are made at the college level wherever possible.

Alumni Feedback

The college takes the suggestions of the alumni during Regular Alumni Meetings. Important suggestions are considered for incorporation in the curriculum.

Suggestions provided by Student, Teachers and Stakeholders.

- More emphasis on practical aspect of curriculum.
- Frequent Industrial Visits.
- Regular classes for weak and meritorious students throughout the session apart from regular studies.
- Use of the latest technology in teaching.

1.1.7 Does the institution develop curriculum for any of the course offered (Other than those under the purview of the affiliating university) by it? If "Yes" give details on the process (Needs Assessment, design development and planning) and the course for which the curriculum has been developed.

Yes, the institution has developed the curriculum on its own for 23 add-on courses and 4 innovative courses. In addition to that, we have also developed and designed the curriculum for two B.Voc courses as mentioned below in the table and two courses under Deen Dayal Upadhyay KAUSHAL Kendra Scheme. We are also running one DMLT course under Community College Scheme for which the college has developed the curriculum.

Table1.3
Curriculum Designed By College
2015-16

Course	Nature of Course	Design & Development	Award of Degree By university/ College	Statutory Recognition	Financed By
B.Voc Hardware And Maintenance	Vocational Degree Course	Industry partners & Department of Information Technology	Panjab University, Chandigarh	PU/ UGC	UGC
B.Voc Agri Business & Agrarian Entrepreneurship	Vocational Degree Course	Industry partners & Department of Economics	Panjab University, Chandigarh	PU/ UGC	UGC
B.Voc Fashion Technology & Apparel Design	Vocational Degree Course	Industry partners & Department of Fashion Designing	Panjab University, Chandigarh	PU/ UGC	UGC

2014-15

Course	Nature of Course	Design & Development	Award of Degree By university/ College	Statutory Recognition	Financed By
B.Voc Food Processing& Preservation	Vocational Degree Course	Industry partners & Department of Biotechnology	Panjab University, Chandigarh	PU/ UGC	UGC
B.Voc Retail Management	Vocational Degree Course	Industry partners & Department of Commerce	Panjab University, Chandigarh	PU/ UGC	UGC
DMLT	Community College Scheme Course	Industry partners & Department of Bio-Chemistry	Panjab University, Chandigarh	PU/ UGC	UGC

2010-11

Course	Nature of Course	Design & Development	Award of Degree	Statutory Recognition	Financed By
Diploma in Tailoring	Specially designed for women of economically weaker section	Department of Fashion Designing	College	-	College
Diploma in Beauty Culture	Specially designed for women of economically weaker section	Department of Fashion Designing	College	-	College
Masters in Entrepreneurship and Family Business	Innovative	Department of Economics	Panjab University, Chandigarh	PU/UGC	UGC (2008-2013) College
M.Sc Applied Chemistry Pharmaceutical	Innovative	Department of Chemistry	Panjab University, Chandigarh	PU/UGC	UGC (2008-2013)/ College
M.Sc Bioinformatics	Innovative	Department of Bioinformatics	Panjab University, Chandigarh	PU/UGC	College
Post Graduate Diploma in Computer Graphics and animation	Innovative	Department of IT	Panjab University, Chandigarh	PU/UGC	UGC (2008-2013) College
Cosmetology	Add On	Department of Chemistry	Panjab University, Chandigarh	PU/UGC	College
Event management	Add On	Department of Commerce	Panjab University, Chandigarh	PU/UGC	College
Computer Based Accounting	Add On	Department of Commerce	Panjab University, Chandigarh	PU/UGC	College
Advertising and Sales Management	Add On	Department of Commerce	Panjab University, Chandigarh	PU/UGC	College

Animation and Graphics	Add On	Department of IT	Panjab University, Chandigarh	PU/UGC	College
Fashion Designing	Add On	Department of Fashion Designing	Panjab University, Chandigarh	PU/UGC	College
Child Psychology	Add On	Department of Psychology	Panjab University, Chandigarh	PU/UGC	College
Guidance and Counselling	Add On	Department of Psychology	Panjab University, Chandigarh	PU/UGC	College
Functional English	Add On	Department of English	Panjab University, Chandigarh	PU/UGC	College

2010 to 2014-15

Course	Nature of Course	Design & Development	Award of Degree	Statutory Recognition	Financed By
Environmental Auditing	Add On	Department of Botany	Panjab University, Chandigarh	PU/UGC	College
Biotechnology	Add On	Department of Biotechnology	Panjab University, Chandigarh	PU/UGC	College
Industrial Microbiology	Add On	Department of Biotechnology	Panjab University, Chandigarh	PU/UGC	College
Portfolio Managements Security Analysis	Add On	Department of Commerce	Panjab University, Chandigarh	PU/UGC	College
Information technology	Add On	Department of IT	Panjab University, Chandigarh	PU/UGC	College
Business Statistics and computer	Add On	Department of Statistics & IT	Panjab University, Chandigarh	PU/UGC	College

2010-2013-14

Course	Nature of Course	Design & Development	Award of Degree	Statutory Recognition	Financed By
Entrepreneurship Development Program	Add On	Department of Commerce	Panjab University, Chandigarh	PU/UGC	College
Introduction to Computer Science	Add On	Department of IT	Panjab University, Chandigarh	PU/UGC	College
Computer Hardware and maintenance	Add On	Department of IT	Panjab University, Chandigarh	PU/UGC	College
Sanskrit	Add On	Department of Sanskrit	Panjab University, Chandigarh	PU/UGC	College
Human Rights and Values in Education	Add On	Department of Sociology	Panjab University, Chandigarh	PU/UGC	College

1.1.8 How does institution analyze/ensure that the stated objectives of curriculum are achieved in the course of implementation?

The university provides curricula for all courses, which also specify the objectives, which the courses aim at achieving. The curricula, prepared by the university, are always done in consultation with the academicians and technical experts keeping in view the requirements of both the industry and society. The curricula, once received by the institution gets carefully analyzed and divided into various sections, based on academic terms during a session. The college has developed a **comprehensive communication system** among all faculty members and stakeholders to communicate and establish ways and means of fulfilling the objectives of curriculum. The heads of various departments in the college communicate the objectives and term-wise division of curriculum to their respective faculty members who, keep these objectives in mind while implementing and delivering lectures through diverse teaching methodologies.

At the beginning of the course, the objectives of the course are **explained to the students** by the concerned faculty. The faculty ensures that the stated objectives of curriculum are achieved during implementation through frequent **Question-Answer sessions** in the classroom to understand if the learning outcomes are being achieved. The **Analysis of Result** helps to understand the effectiveness of curriculum delivery with regards to achievements of the stated objective.

1.2 Academic Flexibility**1.2.1 Specifying the goals and objectives, give details of the Certificate/Diploma/Skill Development Courses etc., offered by the institution.****Faculty of Humanities and Social Sciences****Goals and Objectives**

- To nurture those intellectual and moral habits in students that form the basis for living the best life one can.
- To teach students what is ethical and what is true of our diverse heritage, traditions and history so that they can address the challenges they face together as families, communities and nation.
- To teach students to become altruistic citizens, capable of taking decisions influencing their and the lives of others.
- To bequeath students with knowledge that broadens their perspective on life and teaches them to be critical thinkers and good communicators.

Table 1.4**Certificate/Diploma/Skill Development Courses**

S.No.	Name of Course	Courses
1	P.G Diploma in Mass Communication (PGDMC)	Post Graduate Diploma
2	Journalism	Add On
3	Fashion Designing	Add On
4	Child Psychology	Add On
5	Guidance and Counselling	Add On
6	Sanskrit	Add On
7	Human Rights and Values in Education	Add On
8	French	Add On
9	Functional English	Add On
10	Tourism and Travel	Add On
11	Video Reporting	Add On
12	Diploma in Tailoring	Certificate
13	Diploma in Beauty Culture	Certificate

Faculty of Commerce and Management**Goals and Objectives**

- To provide in-depth theoretical and practical knowledge of the discipline.
- To facilitate lateral thinking to enable a student to develop managerial skills.

- To make them well versed with the skills required for policy making in finance, accounting and other functional areas.
- To impart knowledge and develop skills of the budding entrepreneurs in the dynamic business environment.
- To help students become effective managers who can complete target oriented assignments and provide leadership to organization.

Certificate/Diploma/Skill Development Courses

S.No.	Name of Course	Courses
1	Masters in Entrepreneurship and Family Business (MEFB)	Innovative
2	P.G Diploma in Marketing Management (PGDMM)	Post Graduate Diploma
3	P.G Diploma in Personnel Management and Labour Welfare (PGDPM&LW)	Post Graduate Diploma
4	Portfolio Managements Security Analysis	Add On
5	Entrepreneurship Development Program	Add On
6	Event Management	Add On
7	Computer Based Accounting	Add On
8	Advertising and Sales Management	Add On
9	NCCMP	Certificate

Faculty of Science

Goals and Objectives

- Committed to inspire curiosity, impart knowledge and encourage creativity in the minds of future scientists, technologists and entrepreneurs.
- To become a center of excellence in academic and research activities as we are committed to a learning culture that challenges, inspires and ultimately transforms the minds and actions of the individuals.
- To develop an understanding regarding interdisciplinary approach in education, relationship between various disciplines and to apply them to develop new ideas.
- To get science out of the textbook and help develop a genuine interest and stronger skills in science.

Certificate/Diploma/Skill Development Courses

S.No.	Name of Course	Faculty
1	M.Sc Applied Chemistry (Pharmaceutical)	Innovative
2	M.Sc Bioinformatics	Innovative
3	Cosmetology	Add On
4	Environmental Auditing	Add On
5	Biotechnology	Add On
6	Industrial Microbiology	Add On
7	Electronics And its Equipments Maintenance	Add On

Faculty of Information Technology**Goals and Objectives**

- To provide practical exposure to students with integrated skills to enable them to achieve professional career in information technology.
- To provide in-depth study of numerous applications oriented subjects covering various methodologies to develop software products.
- To provide sound knowledge and skill base so that the students become effective members of Multi National companies.

Certificate/Diploma/Skill Development Courses

S.No.	Name of Course	
1	PGDCGA (Computer Graphics and Animation)	Innovative
2	P.G Diploma in Computer Application (PGDCA)	Post Graduate Diploma
3	Introduction to Computer Science	Add On
4	Computer Hardware and Maintenance	Add On
5	Information Technology	Add On
6	Business Statistics and Computer	Add On
7	Animation And Graphics	Add On
8	Microsoft	Certificate

Skill Development Courses**Under DEEN DAYAL UPADHYAY KAUSHAL KENDRA**

S.No.	Name of Course	Faculty
1	B.Voc Fashion Technology and Apparel Design	Arts
2	B.Voc Agri Business and Agrarian Entrepreneurship	Economics
3	B.Voc Hardware & Networking	I.T
4	B.Voc Food Processing& Preservation	Science
5	B.Voc Retail Management	Commerce

Course under Community College Scheme

S.No.	Name of Course	Faculty
1	Diploma in Medical Lab Technology (DMLT)	Science

1.2.2 Does the institution offer programmes that facilitate twinning/dual degree? If, Yes give details.

The college is affiliated to Panjab University and as such there is no provision to facilitate twinning /dual degree programme.

1.2.3. Give details on the various institutional provisions with reference to academic flexibility and how it has been helpful to students in terms of skill development, academic mobility, progression to higher studies and improved potential for employability. Issues may cover the following and beyond:

- range of core/ Elective options offered by the university and those opted by the college
- Choice based credit system and range of subject options
- Courses offered in modular form
- Credit transfer and accumulation facility
- Lateral and vertical mobility within and across programmes and courses
- Enrichment courses

The college has provision with reference to academic flexibility that helps the students in terms of skill development, academic mobility, and progression to higher studies and improved potential for employment in future.

Academic Flexibility

The college provides various core/elective option offered by Panjab University

Range of core/ Elective options offered by the university and those opted by the college

In Humanities at undergraduate level students have to opt for three elective subjects along with two compulsory subjects:

Range of elective option	Elective option Opted by college
59 subjects are offered by the university	19 Subjects are offered by the college in 350 combinations

B.A. with Honours

College offers honours in the subjects of **Economics, English, Hindi ,Psychology, and Sociology**

Sciences (UG Courses)**B.Sc (Non-Medical)**

Nine subjects with fifteen combinations, each comprising three elective subjects are available to the students.

B.Sc. (Medical)

Seven subjects with nine combinations, each comprising of three elective subjects are available to the students.

Commerce (UG Courses)**B.Com**

All subjects are compulsory in first and second year of the course. However in the third year of degree, a student has to appear in six subjects out of which five are compulsory subjects. For the sixth subject college offers all the four options allowed under Panjab University rules.

B.Com with Honours

Student can opt for any one of honours course beside their general course in second year. The college offers three options out of the four offered by Panjab University, these are **Economics, Finance and Accounting and e-Commerce.**

Commerce (PG Courses)**M.Com**

In Semester III along with two compulsory subjects, a student has flexibility of selecting two groups out of five groups having two paper each. In semester IV along with three compulsory subjects student has to select any one group from the two groups selected in III semester on the basis of their choice. Selected group in the IV semester has three papers.

M.E.F.B

In IV semester, along with five compulsory subjects student has to opt for one paper out of five options

Sciences (PG Courses)**M. Sc. Physics**

In Semester IV student has the choice of selecting one paper out of four options along with five compulsory subjects.

M.A Economics

In third semester students have a choice to select two papers out of five options along with two compulsory papers. Same is the case in semester IV, except for the students who have opted for Economics of agriculture and Economics of Industry in III semester.

Lateral Mobility and Vertical Mobility across programmes and courses

There is a provision of Lateral entry in Add-On course. Students can opt for different Add-On Courses in all the three years of Graduation.

Courses with exit point facility

Bachelor of Vocation in Retail Management and Bachelor of Vocation in Food Processing and Preservation, Agri-business and Agrarian Entrepreneurship, Fashion Technology and Apparel Design and Computer Hardware and Networking under Deen Dayal Upadhyay Kaushal Kendra Scheme. These are three-year degree courses with exit point facility after 1st year and 2nd year. After first year, it is diploma course, after second year it is advanced diploma and after third year, it is a degree course.

Enrichment Courses

The college offers enrichment courses in the form of Add-On courses. The students from all the streams have the flexibility to opt for Add-On courses over and above the subjects opted by them.

How it has been helpful to students in terms of :-**Skill Development**

Academic flexibility provided by the college helps students generate skills according to the need and requirement of the industry so that they become self-employed. The college provides the degree of Bachelors in vocational course with exit facility, which gives the choice to the student of doing either, diploma, advanced diploma or a degree. Besides this, college is now providing 13 skill oriented Add-On courses. Students can opt for three different Add-On courses in the three years of under graduation and develop their skills in three different areas.

Academic Mobility

There is a provision of exit facility in Vocational courses: Bachelor of Vocation Retail management and Bachelor of Vocation Food Processing and Preservation. Both are three year degree courses with exit point facility after I year and II year. After first year it is diploma course, after second year it is advance diploma and after third year it is a degree course. It helps the students leave the course after I or II year with the certificate of diploma or advanced diploma.

Progression to Higher Studies and Improved Potential for Employability

Along with general under-graduate courses, college is also providing honour courses in B.A, B.Sc. and B.Com. These courses help the students to get specialization in a particular subject, which helps them to pursue higher studies.

The college conducts seminars in various research areas of different disciplines and students of post graduation courses are motivated to present their research papers in such seminars. This increases their chances of going for research oriented courses like M.Phil. and Ph.D and their employability in research oriented organizations. All these courses and activities help students get practical knowledge as well as help to develop skills in them. It enhances their overall personality by making them all rounder, which increases their potential for employability as well as makes their base stronger so that they excel in future.

1.2.4. Does the institution offer self Financed programmes? If yes list them and indicate how they differ from other programmes, with reference to admission, curriculum, fee structure, teacher qualification, salary etc.

Yes, college does offer courses under self financed scheme. The list of self financed courses along with admission criteria and curriculum design is provided in detail in the following table

Table 1.5
Self Financed Courses

S No.	Courses	Admission Criteria	Curriculum Designed by
Post Graduate Degree courses			
1.	M.Com	Merit Basis	University
2	Masters in Business Economics (MBE)	Entrance test conducted by Panjab University + Merit	University
3	M.Sc. Physics	Entrance test conducted by Panjab University + Merit	University
4	M.Sc. Biotechnology	Entrance test conducted by Panjab University + Merit	University
5	M.Sc. Information Technology	Merit Basis	University
6	M.A. Economics	Merit Basis	University
Post Graduate Innovative Degree Programmes of UGC			
7	Masters in Entrepreneurship and Family Business (MEFB)	Entrance test conducted by Panjab University + Merit	College
8	M.Sc. Applied Chemistry	Merit	College
9	M.Sc. Bioinformatics	Entrance test conducted by Panjab University + Merit	College
Post Graduate Diploma Courses			
10	PGDMM	Merit	University
11	PGDPM & LW	Merit	University
12	PGDCA	Merit	University
13	PGDMC	Merit	University
Post Graduate Innovative Diploma Programmes of UGC			
14	Post Graduation Diploma in Computer Graphics and Animation (PGDCGA)	Merit	College
Under Graduate Professional Degree Courses			
15	BBA	Merit	University
16	BCA	Merit	University
17	B.Sc. (Hon) Biotechnology	Merit	University
18	B.Sc. (Hon) Bioinformatics	Merit	University
Certificate Courses			
19	NCCMP	Merit	NSE
Add-On Courses			

20	Cosmetology	Merit	College
21	Event Management	Merit	College
22	Computer Based Accounting	Merit	College
23	Advertising and Sales Management	Merit	College
24	Animation and graphics	Merit	College
25	Journalism	Merit	College
26	Fashion Designing	Merit	College
27	Child Psychology	Merit	College
28	Guidance and Counseling	Merit	College
29	French	Merit	College
30	Functional English	Merit	College
31	Tourism and Travel	Merit	College
32	Video Reporting	Merit	College
33	Business Statistics and Computer	Merit	College
34	Environmental Auditing	Merit	College
35	Human Rights and Values	Merit	College
36	Information Technology	Merit	College
37	Security Analysis and Portfolio Management	Merit	College
38	Biotechnology	Merit	College
39	Industrial Microbiology	Merit	College
40	Electronics and Equipment Maintenance	Merit	College
41	Entrepreneurship Development Program	Merit	College
42	Introduction to Computer Science	Merit	College
43	Computer Hardware and Maintenance	Merit	College
44	Sanskrit	Merit	College
Diplomas			
45	Diploma in Tailoring	Women of Economically Weaker section	College
46	Diploma in Beauty Culture	Women of Economically Weaker section	College

Difference from other programmes in reference to:**Admission Criterion**

As per the table, out of the 46 self-financed courses, in five courses admission is on the basis of entrance test conducted by Punjab University. In 41 courses admission is on the basis of merit cum interview so that selection of the candidates should be according to the requirement of the course. In two diploma courses admission is on the basis of economic backwardness. Whereas in other courses admission is on the basis of merit only

Curriculum

As per the table, out of 46 self-financed courses the curriculum of 40 self-financed courses is designed by the college in consultation with the industry partners and approved by the university. Whereas in other courses curriculum is given by the university and is opted by the college as it is.

Teacher's Qualification and salary

Teachers Qualification is as per UGC norms. Salary is as per government/UGC norms.

Fee Structure

Fee structure is decided as per the rules of Punjab University.

1.2.5 Does the college provide additional Skill development programmes relevant to regional and global employment markets? If yes, provide details of such programmes and the beneficiaries.

Yes, the college does provide additional skill development programmes relevant to regional and global employment markets so that the skill set could be generated according to the requirement of the industry. There are two Vocational degree courses and their curriculum is designed by the college with the help of Industry Partners so that students become employable at regional as well as at global markets. Further, for undergraduate students there are skill oriented Add-On courses and for both Post Graduate and undergraduate students there are two certificate courses which they can opt along with their regular Degree courses. There are two Diploma courses specially designed for the skill development for the women of economically weaker section of the society. Details of the skill development programmes are given below:

Table 1.6
Skill Development Programmes

S. No	Courses	Nature of Course
1	B. Voc Food Processing& Preservation	Vocational Degree Course
2	B. Voc. Retail Management	Vocational Degree Course
3	B.Voc.Agri-business and Agrarian Entrepreneurship	Vocational Degree Course
4	B. Voc Fashion Technology and Apparel Design	Vocational Degree Course
5	B. Voc.Hardware and Networking	Vocational Degree Course
6	Microsoft	Certificate course
7	NCCMP	Certificate course
8	Cosmetology	Add On
9	Event Management	Add On
10	Computer Based Accounting	Add On
11	Advertising and Sales management	Add On
12	Animation and Graphics	Add On
13	Journalism	Add On
14	Fashion Designing	Add On
15	Child Psychology	Add On
16	Guidance and Counseling	Add On

17	French	Add On
18	Functional English	Add On
19	Video Reporting	Add On
20	Business Statistics and Computer	Add On
21	Environmental Auditing	Add On
22	Human Rights and Values	Add On
23	Information Technology	Add On
24	Security Analysis and Portfolio Management	Add On
25	Biotechnology	Add On
26	Industrial Microbiology	Add On
27	Electronics and Equipment Maintenance	Add On
28	Entrepreneurship Development Program	Add On
29	Introduction to Computer Science	Add On
30	Computer Hardware and Maintenance	Add On
31	Diploma in Tailoring	Diploma
32	Diploma in Beauty Culture	Diploma
33	DMLT	Diploma

Table 1.7
Number of Beneficiaries of Skill Development Programmes

S. No	Courses	No. of Beneficiaries				
		2011-12	2012-13	2013-14	2014-15	2015-16
1	Microsoft	-	-	40	120	120
2	NCCMP	-	-	15	16	18
3	Cosmetology	12	5	23	15	21
4	Event Management	24	30	29	64	60
5	Computer Based Accounting	50	32	37	28	44
6	Advertising and Sales Mgt.	30	9	11	25	15
7	Animation and Graphics	33	19	9	19	46
8	Journalism	54	23	39	162	73
9	Fashion Designing	14	6	28	56	15
10	Child Psychology	18	5	24	36	21
11	Guidance and Counseling	16	7	9	34	20
12	French	43	17	24	106	12
13	Functional English	32	10	17	48	11
14	Tourism and Travel	12	10	86	86	32
15	Video Reporting	27	17	67	67	12
16	Business Statistics and Computer	14	5	6	9	
17	Environmental Auditing	40	23	25	64	04
18	Human Rights and Values	21	6	0	0	-
19	Information Technology	11	5	9	16	-

20	Security Analysis and Portfolio Management	64	50	41	18	-
21	B.Voc Food Processing& Preservation	-	-	-	16	24
22	B.Voc Retail Management	-	-	-	23	40
23	B.Voc.Agri-business and Agrarian Entrepreneurship	-	-	-	-	03
24	B. Voc Fashion Technology and Apparel design	-	-	-	-	11
25	B. Voc.Hardware and Networking	-	-	-	-	10
26	DMLT	-	-	-	04	13

1.2.6. Does the university provide for the flexibility of combining the conventional face to face and distance mode of education for students to choose the course/ combination of their choice if yes, how does the institution take advantage of such provision for the benefit of the students?

Yes, there is a provision of the flexibility of combining the conventional face to face and distance mode of education for students to choose the course/ combination of their choice as per university norms. Institution does take advantage of such provisions for the benefit of students. Since, there are students who do not get admission in first year of regular Graduation or Post Graduation course, they can enter into a regular course in second year or third year of the course after doing previous year through distance mode of education.

Students can shift from regular course to distance mode of education, taking industry experience or for completing their professional trainings for courses they are doing along with their degree courses like CA or CS etc.

1.3. Curriculum Enrichment

1.3.1 Describe the efforts made by the institution to supplement the University's Curriculum to ensure that the academic programmes and Institution's goals and objectives are integrated?

Various efforts have been made by the institution in order to ensure that the academic programmes and various goals and objectives are integrated. It aims at enhancing the employability of the students by offering the best faculty, infrastructure and self-development activities. Certain measures are:

- Unique, fully automated student oriented software developed by TCS for effective learning and assessment of the students.
- Effective implementation of curriculum through the use of the latest Information and Communication Technology methods along with the state of the art classroom atmosphere.
- Presenting the curriculum in the classes in a very attractive manner using the modern presentation tools like power-point presentations and videos to arouse the spirit of scientific enquiry among the students to delve deeper into the subject.
- Organizing lectures of experts, educationists and eminent dignitaries from industry, referring business articles in newspapers, magazines, journals, etc. with respect to the recent trends in the curriculum.

- Organizing co-curricular activities like elocution, debate, essay writing, quiz events, cultural competitions like Bhangra, Gidda etc.
- Encouraging students to be a part of various committees like Cultural, Discipline, Mess, Hostel, Placement, Magazine, Alumni, Technical, and Sports, etc. to encourage and hone their organizing skills.
- Organizing Tutorial sessions in business communications, general awareness, aptitude training, etiquette classes and employment enhancement sessions to supplement the university curriculum.
- Encouraging student participation in various conferences at National and International level.
- Motivating students to present research papers, and to participate in summer internship projects, competitions, business quiz, business Plan, competitions etc.
- Conducting various personality development sessions at regular intervals to infuse confidence among students and make them market friendly.
- Facilitating summer internship programmes recommended by the university to help sharpen the analytical skills of the students with top-notch industrial houses.
- Organizing various Faculty Development Programmes to continuously enhance the teaching and other skills of the faculty members and making them aware about modern teaching tools and methodologies in order to better facilitate the students.
- Conducting various objective/ subjective tests to upgrade the subject knowledge of the students on regular basis.
- Organizing Annual Blood Donation Camp to provide the students an added opportunity to invoke the spirit of unselfish service for all, especially the needy, in order to sensitize them with social obligations.
- Organizing various Industrial visits to help the students relate theory with actual practice for developing professional aptitude.

1.3.2 What are the efforts made by the institution to modify, enrich and organize the curriculum to explicitly reflect the experiences of the students and cater to needs of the dynamic employment market?

- It is a matter of great concern for the institution that the students should be self-sufficient to prove their caliber in the ever changing and competitive world.
- The institution ensures that the existing programmes are modified to meet the emerging/ changing National and Global Trends in accordance with the guidelines given by the Board of Studies in various subjects.
- As per the guidelines given by the Board of Studies in various subjects and Panjab University, the students feedback on curriculum is obtained and then analyzed in departmental meetings, the suggestions given are further forwarded to the Board of Studies.
- Faculty of Humanities, Faculty of Commerce and Management and Faculty of Science organize various Workshops from time to time on syllabus revision and various concerned members of University are invited for these workshops.
- The institution being affiliated to the Panjab University, cannot modify the curriculum on its own, however, by organizing various student centered activities various skills are inculcated among the students to help them meet the needs of the dynamic employment market.
- The staff members prepare teaching notes / lesson plans to meet the requirement of the syllabus and to give additional information collected from the internet and from various national and international journals.

- Various assignments are given in such a way that the students are encouraged to visit the library and refer to a great number of textbooks / journals.
- Campus interviews are arranged in the college by renowned companies like Google, Cipla. During these Placement Programmes, a feedback is taken from the companies regarding how one should get equipped for getting jobs and such suggestions are taken care of while imparting basic knowledge to the students.
- The training and placement cell of the Institute interacts with the HR managers of reputed companies and collects information about requirements of the industry regarding skill set of students. Considering these requirements, Add-On courses and extra classes are then conducted to make the students more employable.
- Regular interactions with the representatives of the Industry, during Guest Sessions, Industrial Visits etc. enable the institution to understand the Industry requirements. Then an assessment of the gaps in learning in terms of University syllabus and Industry requirement is further done on the basis of which various training programs are designed.
- These programs are either value added programs like SAP training, NCCMP training, or Enrichment Courses like Soft Skills, General Awareness, Etiquettes, Aptitude Tests, Moral and Ethical Values, Microsoft Office Workshop, English Speaking, etc. Further, students are encouraged to participate in various competitions like National and International conferences, Research paper presentation, summer internship project competition, Business quiz, Business Plan competition, Debates, etc.

1.3.3 Enumerate the efforts made by the institution to integrate the cross cutting issues such as Gender, Climate Change, Environmental Education, Human Rights, ICT, etc. into the curriculum?

The institution makes efforts to integrate the following cross cutting issues into the curriculum:

To integrate the issue of Gender

- The college encourages equal participation of both the genders by adequate and equal representation in the classrooms.
- The college conducts guest lectures on 'Gender Sensitization' by inviting special speakers. For Example: The Department of English conducted a guest lecture on "Gender Politics" on January 30, 2014 by inviting Professor Rumina Sethi from Panjab University.
- There is a Student Grievance Cell in the college to ensure student safety and keep discriminating gender issues at bay.
- In compliance with the act of Parliament and policy of Panjab University, Chandigarh, the college has constituted the College Committee against Sexual Harassment (CCASH) whose chairperson is Dr. Sunila Sharma, Head Department of Hindi.
- The gender issues get incorporated in the curriculum through the General Tutorials which are organised once a month.

To integrate the issue of Climate Change

- The issue of Climate Change was addressed with prime focus in the 9th International Youth Peace Fest held in college in 2014.
- The issue of Global Warming is addressed by the college through various events conducted under the aegis of 'Spirit India', a volunteer organization of the institution.
- The General Tutorials also address Climate Change through interactive sessions with the students.

To Integrate the issue of Environmental Education

- The Environmental Society of the college named 'Haritima' comprising mostly students from Department of Botany cleanliness drives in Botanical Gardens, plant saplings and pledge to safeguard the environment.
- Environmental Studies is a compulsory course, which makes it mandatory for the students to attend those classes. The University conducts a compulsory examination in 'Environmental Studies' for all courses.
- The college has replaced the conventional lighting system with CFLs and promotes optimal utilization of electricity in order to save energy. The offices, staff rooms and hostel rooms are equipped with Power Saving Air Conditioners.
- The college caters to the issue of Environmental Education through the administration of environmental issues in monthly General Tutorials.
- Various seminars, workshops and guest lectures are organised by the college to integrate the issue of environmental education into the curriculum. A few examples are as follows:
- A workshop was organised on 'Biofertilizers and their Role in Sustainable Agriculture' under the Star College Scheme on 29 November, 2014 where Dr Neera Garg, Professor, Department of Botany, Panjab University was the chief spokesperson.
- Department of Economics organised a UGC sponsored National Seminar on 'Socio Economic Impact of Green Economy and Sustainable Development' on 12 February 2015

To integrate the issue of Human Rights

- Different departments of the college such as Political Science, Commerce etc. conduct various seminars and lectures regarding human rights to raise awareness amongst the students.
- The Anti-Ragging cell of the college ensures that the Human Rights are preserved and promoted.

To integrate ICT

- The college is well equipped with Smart Classrooms and lectures are delivered through ICT to supplement traditional modes of Teaching and Learning. The lectures are delivered with the aid of Power Point Presentations and Video Screening.

1.3.4 What are the various value-added courses/enrichment programmes offered to ensure holistic development of students?**Moral and Ethical Values****Employable and Life Skills****Better Career Options****Community Orientation**

The college offers many value-added courses/enrichment programs to ensure holistic development of students. They are as following:

Programs for development of Moral and Ethical Values

- The college has a system of conducting General Tutorial once in a month which emphasizes on moral and ethical values and the students' responsibility towards their environment.
- The college arranges for Motivational and Ethical lectures by Guest speakers to inculcate moral and ethical values in its students and staff.

For Example:

- A motivational guest lecture cum interactive session by internationally renowned Mr. Shiv Khera was organized by the college in 2015.
- A lecture on "Ethics is Fundamental to Good Leadership" was organised by the college where General V.P. Malik, former Chief of Army Staff addressed the audience.
- Spiritual Lectures and Sessions of meditation are also conducted by the college for the students, faculty and staff. For example: College conducted a meditation session in visualizing and inner peace by inviting Mrs. Bharti Kapoor as the chief spokesperson.
- Each new session starts by seeking blessings of Almighty in the form of 'Havan'. Havans are also held on other holy occasions such as Maa Durga Ashtami to inculcate ethical values in students. Pooja Ceremonies are also held on various auspicious occasions such as 'Basant Panchmi' so that the sacred traditions are preserved. For Example: The auspicious festival of Shri Krishna Janmashtami was celebrated with religious fervour on 14 August, 2014 by inviting Shri Nand Maharaj Ji from ISKCON, Chandigarh to address the students.
- In an endeavour to help students deal with their everyday anxieties and stress, the college opened a centre "Manasuday" meaning "Awakening of the Mind" where students are given counselling, taught stress management and are motivated to grow further as enlightened human beings.

Programs for Employable and Life Skills

- The college organizes regular Personality Development Classes, seminars and lectures for making its students employable and to enhance their life skills.
- Various clubs for student development such as The Literary Club in the college organise Mock interviews, Debates and Group Discussions related to current topics.
- The college raises awareness about Life Skills through Guest Lectures who teach students about self-defense, road safety and sustenance in emergency situations.
- The College organised a lecture by the representatives of Chandigarh Police during Road safety Week to make students aware about various grievance cells around the city and mobile phone apps such as i-click and 24x7 to use in urgent situations.

Programs for Better Career Options

- The Placement Cell of the college is very active in making the students interact with various industries and employers. It arranges campus placement for the students of all streams by inviting the respective employing agencies in the campus. The companies which hire students from our college include prestigious ones such as Bharti Airtel, Infosys Technologies, Ernst & Young Ltd., DHLF Ltd., Lowe Lintas, etc.

Programs for Community Orientation

- The college makes students aware of community development by encouraging them to actively participate in various social activities like National Service Scheme (N.S.S.)
- The volunteers from college visit the school for the underprivileged under the aegis of 'Spirit India' working under NGO Aavahan on important occasions such as Children's Day, Teacher's Day etc.
- The college extends generous support to B.R. Ambedkar Primary School run by the NGO Citizen Association of Relief and Education Services (CARES), Nayagaon with Financial and Moral aid for the under-privileged.
- The college signed an MOU with Teach a Child, an NGO for giving financial support to train their teachers.

Since the year 2000, the college has been running Mrs. Kaushaliya Devi Verma Charitable Institute for Women, which imparts free vocational training to economically weaker women. Until now, 835 women in 74 batches have successfully completed the course in cutting and tailoring and more than 650 women have been trained in Beauty Culture and Cosmetology.

1.3.5 Citing a few examples, enumerate on the extent of use of the feedback from stakeholders in enriching the curriculum?

The institute enriches the curriculum through feedback from stakeholders through the following:

- The institute maintains a proper mechanism through which feedback is taken twice in a session. A feedback form is circulated among all the students for all the courses they are registered for. The feedback given by them is thoroughly analysed and the points for improvement raised thereby are discussed by IQAC.
- The college takes feedback from parents of the enrolled students through the Parent-Teacher meetings conducted by Parents-Teachers Association (PTA).
- The Management and other stakeholders communicate their feedback in verbal form to the concerned agency/authorities from time to time, which are then incorporated in all earnestness to improve the quality of education and other facilities provided by the institution.

1.3.6 How does the institution monitor and evaluate the quality of its enrichment programs?

The college runs many enrichment programs in the form of training workshops and Faculty Development Programs. The monitoring and evaluation of all such programs is done through the following:

- The IQAC – Internal Quality Assurance Cell keeps a regular focus on the college enrichment programs. It maintains the annual record of the research publications, degrees attained, honours received, outreach activities conducted and departmental

events organized by the faculty members. It closely monitors the academic progress and quality of teaching in the college.

- The Management monitors the quality of ISW – International Skill Workshop and FDPs by getting feedback forms filled by the members of faculty who participate/attend such workshops.
- All the departments submit a bi-monthly report of their academic publications and outreach activities to the administration for keeping a track of their progress and growth.

1.4 Feedback System

1.4.1 What are the Contributions of the institution in the design and development of the curriculum prepared by the University?

The college contributes in the design and development of the curriculum of the affiliated university through regular suggestions and participation in the curriculum design at the university level. Many teachers of the college are members of the Senate and various Boards of Studies. **(For Details refer to table 1.2)**

Further the college runs many innovative and skill development programmes the curriculum for which is designed by the college itself. These courses and programmes serve as a role model for the university to design its own future programmes and courses. This provides opportunities to other colleges and institutions affiliated with Panjab University to start these courses at their campuses.

1.4.2 Is there a formal mechanism to obtain feedback from students and stakeholders on curriculum? If yes, how is it communicated to the university and made use of internally for curriculum enrichment and introducing changes/new programmes?

Yes, there is a formal mechanism to obtain feedback from students and stakeholders.

The college obtains feedback on curriculum as follows:

The college obtains written feedback from students, parents, and Alumni in the following manner:

- Students provide feedback on courses, teachers, library, internal assessment, infrastructural facilities, and institutional environment.
- Parents evaluate the college based on parameters such as college facilities, college environment, hostel facilities, career orientation for their wards, access to the authorities etc.
- Alumni rate the college based on parameters such as college infrastructure, recreational facilities, teacher involvement, role of college placement cell, extra-curricular activities etc.

As part of the written feedback from students, parents, and alumni, suggestions are elicited for the improvement of the institution. In addition to feedback from the aforementioned, the college also elicits random feedback from students in the classroom, employers of student placed in service, and the Managing Society.

Departmental meetings with Heads of the Department are held at the start and the end of each term regarding effectiveness of the syllabus and requisite changes are suggested.

The IQAC (Internal Quality Assessment Cell) reviews Departmental meetings with Heads of the Departments and then evaluates these for improvement and changes.

The changes suggested by IQAC are conveyed to the Heads of the Departments and other office-bearers.

The changes to be made in the various courses are discussed by the elected and nominated members of the college in the meetings of Boards of Studies (both undergraduate and postgraduate) at the university.

1.4.3 How many new programs/courses were introduced by the institution during the last four years? What was the rationale for introducing new courses/programs?

Many courses were introduced by the institution during the last four years. The names of the courses and the rationale for introducing them are given below:

Year 2015-16

B.Voc Hardware & Networking: This course was started in the session 2015-16 under the Deen Dayal Upadhyay Kaushal Kendra Scheme of UGC, New Delhi. This is a three year degree course with exit point facility after the 1st year (whereby the candidate will be certified as a Diploma Holder) and the 2nd year (whereby the candidate will be certified as Advanced Diploma holder).

B.Voc Fashion Technology& Apparel Design: This course was started in the session 2015-16 under the Deen Dayal Upadhyay Kaushal Kendra Scheme of UGC, New Delhi. This is a three year degree course with exit point facility after the 1st year (whereby the candidate will be certified as a Diploma Holder) and the 2nd year (whereby the candidate will be certified as Advanced Diploma holder).

B.Voc Agri Business and Agrarian Entrepreneurship: This course was started in the session 2015-16 under the Deen Dayal Upadhyay Kaushal Kendra Scheme of UGC, New Delhi. This is a three year degree course with exit point facility after the 1st year (whereby the candidate will be certified as a Diploma Holder) and the 2nd year (whereby the candidate will be certified as Advanced Diploma holder).

The main aim to start these courses is to provide an alternative to those pursuing higher education. The courses will promote the possibility of self-employment thereby decreasing unemployment.

Year 2014-15

Research Centre in Biotechnology& Chemistry - The aim of the research centre in the college is to promote the research aptitude among the students and to give exposure to students and faculty of college to latest techniques in the field of sciences. The centre encourage quality research presentation at various International and National conferences/seminars. The centre also helps in Interdisciplinary and collaborative research at National & International level.

B. Voc Food Processing & Preservation - This course was started in the session 2014-15 under the National Skills Qualification Program of University Grants Commission, New Delhi. This is a three year degree course with exit point facility after the 1st year (whereby the candidate will be certified as a Diploma Holder) and the 2nd year (whereby the candidate will be certified as Advanced Diploma holder).

The rationale behind this course was to develop set of methods and techniques which can be used to transform raw materials into nutritious and safe food for consumption. It offers exponential career opportunities to trained professionals in food processing. The curriculum has been designed to include general education and skill development components, extensive

practical and on job training along with regular industrial visits. This will enable the students to be easily absorbed in Food Industry or become Entrepreneurs.

B. Voc Retail Management – This course was started in the session 2014-15 under the National Skills Qualification Program of University Grants Commission, New Delhi. This is a three year degree course with exit point facility after the 1st year (whereby the candidate will be certified as a Diploma Holder) and the 2nd year (whereby the candidate will be certified as Advanced Diploma holder). This course was started in the session 2014-15 and the rationale behind it was to cater to the market demand in retail sector in the business industry. The enormous expansion of the retail management sector has thrown up a big demand for skill professionals in the field. Job prospects in the retail sector are innumerable but are not limited to the posts of Customer Sales Associate, Department manager, Floor manager, Store Manager, Retail Operations Manager, Retail Buyers and Merchandisers, Visual Merchandisers, Logistic managers, Warehouse Manager etc.

The programme curriculum has been designed in close consultation with the industry to prepare entry level and experienced executives and managers for a career in the retail sector. The curriculum includes general education and skill development components having extensive practical and on-the job training along with periodic industrial visits and industry interactions. The college has industry partnerships with leading retail companies which are renewed from time to time.

Diploma in Medical Lab Technology (DMLT): This program was introduced in 2014-15. It was introduced to raise the employability of students by giving them practical training as lab technicians.

Year 2013-14

M. Sc. Physics – This is a two year course affiliated to Panjab University. This course was started by the college in the session 2013-14. This course was introduced for science students to pursue post-graduation in Physics who otherwise had to shift to some other institution for the same. The college had the required infrastructural and academic resources to make this course available. B.Sc. has been quite a popular course for long because many graduates have keen interest in Physics; further the Department of Physics has a faculty of 7 teachers all of whom are Ph.D. holders.

M.A. Economics – This is a two year course, affiliated to Panjab University. It was started by the college in the session 2013-14. The course was started on demand of the students. This course was introduced after proper assessment of the market to cater to students' demands and give them a chance to pursue post graduation in economics.

Honours Course (Psychology & Sociology) – In the session 2013-14 the college had started two honours courses in Psychology and Sociology on demand of students. The honours courses prepares the students for admission to post graduation in relevant subjects.

The following certificate Skill Development Programs were introduced by the institution during the last four years:

Microsoft (IT) Academy Programme – The College is a member of Microsoft IT academy program. This certificate program was introduced in the session 2013-14. It was started in order to help the students obtain hands-on skills and to help them succeed in technical careers. The program offers classroom and online learning, labs and access to hundreds of course books, cutting-edge resources and collaboration tools. Most importantly the students can earn Microsoft Certifications which can enhance their chances of getting lucrative jobs in today's competitive economy.

Year 2012-13

NCCMP (Commerce) -- This program named **National Stock Exchange Certified Capital Market Professional** Course was introduced in the college in 2012-13 which acted as a new milestone in raising the employment prospects of the students. The course is designed to make the students competent in Securities Market. Students of any stream are eligible for this four month program. The department of Commerce & Management already has been providing faculty, infrastructure and administrative help to local chapters of the Institute of Company Secretaries of India and Institute of Chartered Accountants of India. The college had an ample number of interested students for initiating and promoting this course.

CRITERION II: TEACHING, LEARNING & EVALUATION

2.1 Student Enrolment and Profile

2.1.1. How does the college ensure publicity and transparency in the admission process?

The college ensures publicity in the admission process through the following:

- College advertisements are regularly published in Regional and National newspapers.
- The college prospectus publicizes about the programs and courses offered by the institution. The same is annually revised and updated.
- The college website www.ggdsd.ac.in is regularly updated and ensures global publicity.
- The college also ensures publicity through social networking sites and also updates important notifications on the same. The Facebook link for college website is www.facebook.com/sdcc32chd
- Intercollegiate events like Panache, Virasat, Fest O' Comm', SDMUN, etc. and media coverage of the same help in promoting admissions and creating good publicity.
- The college also gets a lot of word-of-mouth publicity by the alumni and students studying in the college.

The College ensures Transparency in the admission process through the following:

- The institution has hired the services of TCS from 2015 onwards for total Automation of Admission Process, Exam Grade Management and Payroll Solutions. It has led to total transparency in the entire process.
- The admission process is mentioned in detail in the prospectus of the college for each course and it is strictly adhered to. The process of admission is also publicized through newspapers, advertisements, website and notices: complete transparency is followed in the same.
- The admission cell of college makes sure that transparency is maintained throughout the admission process. There is also provision for one-to-one counseling with the admission teacher in-charge.
- The admission process can either be based on student merit or entrance test score or a combination of both. The list of students who qualify for enrolment in the courses of their choice is displayed on notice boards and website. Sufficient time is given to the students to confirm their admission to the college.

2.1.2. Explain in detail the criteria adopted and process of admission (Ex. (i) Merit (ii) Common Admission test conducted by state agencies and national agencies (iii) combination of merit and entrance test or merit, entrance test and interview (iv) any other to various programs of the institution.

The Institution follows the process of the admission as per the Panjab University instructions and the national policy of reservation. Emphasis is laid on merit of the students as well as their overall performance. Criteria adopted and process of admission to various courses is given in detail in the table as follows:

Table 2.1
Admission on Merit Basis

Post Graduate Courses

Course	Procedure and Criteria		
	Eligibility	Duration	Admission criteria
M. Com.	B.COM. or B.B.A. examination or any other degree recognized by the University as Equivalent to B.COM. or B.B.A.	Two years (4 semesters)	Merit basis
M.A. Economics	A Bachelor degree in Commerce or B.B.A with Hons in Economics/ Maths or Statistics with at least 45% marks.	Two years (4 semesters)	Merit basis
M.Sc Applied Chemistry (Pharmaceutical)	B. Sc. (Hons. or General) with Chemistry or B. Tech. (Chemical Engineering & Technology) or B. Pharm. with minimum 55% marks	Two years (4 semesters)	Merit basis
M.Sc. - IT	A person who has passed one of the following examinations (i) B.C.A. examination from the Panjab University. OR (ii) B.E./B.Tech. in Computer Science from the Panjab University. OR (iii) Any other examination of another University recognized by the Syndicate as equivalent.	Two years (4 semesters)	Merit basis
PGDCGA	Graduation in any stream from any recognized university with at least 50% marks.	One year (2 Semesters)	Merit basis
PGDMM	Graduation with at least 45 % marks or any other examination recognized by the University as equivalent to Graduation.	One year (2 Semesters)	Merit basis
PGDPM&LW	Graduation with at least 45 % marks or any other examination recognised by the University as equivalent to Graduation	One year (2 Semesters)	Merit basis

PGDMC	Graduation with at least 45 % marks or any other examination recognised by the University as equivalent to Graduation.	One year (2 Semesters)	Merit basis
PGDCA	Bachelor's degree under 10+2+3 system with at least 50% marks in any discipline.	One year (2 Semesters)	Merit basis

Under Graduate Courses

Course	Procedure and Criteria		
	Eligibility	Duration	Admission criteria
B.Voc. Hardware and Networking	10+2 examination in any stream with 50% marks	3 years degree course with exit point facility after 1st year –Diploma after 2nd year- Advanced Diploma after 3rd year degree	Merit basis
B.Voc Fashion Technology & Apparel Designing	10+2 examination in any stream with 50% marks	3 years degree course with exit point facility after 1st year –Diploma after 2nd year- Advanced Diploma after 3rd year degree	Merit basis
B.Voc Agri Business and Agrarian Entrepreneurship	10+2 examination in any stream with 50% marks	3 years degree course with exit point facility after 1st year –Diploma after 2nd year- Advanced Diploma after 3rd year degree.	Merit basis
B.Voc. Retail Management	10+2 examination in any stream with 50% marks	3 years degree course with exit point facility after 1st year –Diploma after 2nd year- Advanced Diploma after 3rd year degree	Merit basis
B.Voc. Food Processing & Preservation	10+2 examination in any stream with 50% marks	3 years degree course with exit point facility after 1st year –Diploma after 2nd year- Advanced Diploma after 3rd year degree	Merit basis

B.B.A.	10 + 2 in any discipline with at least 50% marks OR ii) Any other examination with 50% marks, recognized by the Syndicate as equivalent.	Three years (6 semesters)	Merit basis
B.Sc. (Hons.) Biotechnology	Candidate with science background (Medical or Non-Medical) at 10+2	Three years (6 semesters)	Merit basis
B.Sc. (Hons.) Bioinformatics	Candidate with science background (Medical or Non-Medical) at 10+2 level.	Three years (6 semesters)	Merit basis
B.C.A	A person who has passed +2 examinations in any discipline with at least 50% marks.	Three years (6 semesters)	Merit basis
B.Sc. (General) Medical/ Non-Medical	10 + 2 with PCB /PCM	Three years (6 semesters)	Merit basis
B.A. (General)	A student who has passed the Senior Secondary Examination, Class XII of CBSE New Delhi/ Punjab School Education Board, Mohali / National Open School, Delhi/ or any other Board the equivalence of which is recognized by the Panjab University is eligible for admission to the First Year BA degree course if he/ she has obtained at least 33% marks in the aggregate of all subjects.	Three years (6 semesters)	Merit basis
B.Com.	10+2 examination or any other examination recognised by the University as equivalent to 10+2.	Three years (6 semesters)	Merit basis Centralized Online Admissions conducted by Panjab University Chandigarh

Admission Based on Combination of Entrance Test and Merit

Course	Procedure and criteria		
	Eligibility	Duration	Admission criteria
M.B. E (Master of Business Economics)	Bachelor's / Master's degree in any discipline of any recognised University Or A pass in the final examination conducted by (a) ICAI (b) ICWA (c) ICSI	Two years (4 semsters)	Common Entrance Test C.E.T(P.G.) conducted by Panjab University
M.Sc.Physics	B.Sc. degree with Physics & Maths	Two years (4 semsters)	Common Entrance Test C.E.T(P.G.) conducted by Panjab University
M. Sc. Biotechnology	Bachelor's degree (under the 10+2+3 pattern of Education) in Physical, Biological, Pharmaceutical, Agricultural, Veterinary or Fishery Sciences or Bachelor's degree in Engineering/Technology, Home Science, Medicine (MBBS) from any University/ Institute recognized by the Panjab University. The candidate must have obtained at least 55% marks at the Bachelor's degree level.	Two years (4 semsters)	Common Entrance Test C.E.T(P.G.) conducted by Panjab University
M.Sc Bioinformatics	Bachelor's degree in Science (General or Hons.) with Bioinformatics, Biotechnology, Biochemistry, Biology, Botany, Chemistry, Electronics, Genetics, Life Science, Mathematics, Mathematics & Computing, Microbiology, Physics, Statistics, Zoology, Agriculture, Computer Science, Engineering, Medicine, Pharmacy and Veterinary Science with at least 50% marks	Two years (4 semsters)	Common Entrance Test C.E.T(P.G.) conducted by Panjab University
M.E.F.B. (Master of Entrepreneurship & Family Business)	Bachelor's / Master's degree in any discipline of the any recognised University Or A pass in the final examination conducted by (a) ICAI (b) ICWA (c) ICSI	Two years (4 semsters)	Common Entrance Test C.E.T(P.G.) conducted by Panjab University

2.1.3 Give the minimum and maximum percentage of marks for admission at entry level for each of the programs offered by the college and provide a comparison with other colleges of the affiliating University within the city/.district.

Our college is the most sought after college in the city. The admissions, too, are centralized, and we get the highest cut off in the city. The chart below shows our highest and lowest cutoff of various courses.

Table 2.2
Highest and Lowest Cutoff of Various Courses

Course	GGDSD College		Other colleges	
	Highest	Lowest	Highest	Lowest
M.Com	88.2	73.3	87.4	70.9
MBE	79.4	54.3	75.8	54
M.Sc Physics	82	55.5	81	56
M.Sc Biotechnology	73.9	62	71.3	59.4
M.Sc Information Technology	72.6	52.4	68.3	50
M.A Economics	84	57	81	54
MEFB	65	50	N.A.	N.A.
M.Sc Applied Chemistry	81	55.6	N.A.	N.A.
M.Sc Bio Informatics	79	56.3	N.A.	N.A.
PGDCGA	71.5	52.6	N.A.	N.A.
PGDMM	72.6	52.4	71	51.4
PGDPM & LW	72	51.6	70	50.4
PGDCA	69	55.8	67	53.6
PGDMC	71.4	53.2	69.4	51.3
B.Com	98.2	94.8	90	70
B.Voc. Computer Hardware and Networking	67.3	52.4	N.A.	N.A.
B.Voc. Fashion Designing & Apparel Designing	69	56.3	N.A.	N.A.
B.Voc. Agri Business and Agrarian Entrepreneurship	65	51.6	N.A.	N.A.
B.Voc. Retail Management	82.6	67.5	N.A.	N.A.
B.Voc. Food Processing & Preservation	72.6	52.4	N.A.	N.A.
BBA	96.2	75	94.3	73
BCA	93	75	91	72
B.Sc (Hons) Biotechnology	89.6	73	87.4	71
B.Sc (Hons) Bioinformatics	79.3	62.8	78.2	61.3
B.Sc Medical	93.6	54.8	92.4	51.3
B.Sc (Non Medical)	91.3	56.3	89.6	55
BA	98.2	59.3	96.2	55.4

2.1.4 Is there a mechanism in the institution to review the admission process and student profiles annually? If 'yes' what is the outcome of such an effort and how has it contributed to the improvement of the process?

- Yes, the institution has a mechanism to review the admission process and student profiles annually. The entire process of admission is carried out online through Campus Analyzer Software and student profile is generated through the same . **From 2015-16 onwards, the institution has introduced an advanced software by Tata Consultancy Services (TCS) which fulfills the objective of reviewing admission**

process and generating students' profiles. Besides, latest guidelines issued by Panjab University, Chandigarh, regarding admission process in various courses are strictly followed.

- Yes, the mechanism has contributed substantially to the improvement of process. The departments whose programs are in **high demand** are encouraged to start additional sections in the self-financing mode to serve greater number of students. On the other hand, programs with very **low demand** are directed to take extra measure to create awareness among students and enhance enrolments. Review of the admission process and the subsequent analysis of students' profiles helps in providing equal representation to all the sections of the society. Students' performance record in all the fields viz. academic, sports, cultural and other activities is duly maintained. The students who bring laurels to the college in various fields are given due recognition and liberal concessions/incentives at the time of admission in the following year.

Outcome

- Department of psychology started 'Manasuday' the Counseling Centre, to help students in bearing stress and to deal with other psychological issues that they have. PG Department of Commerce and Management has started additional section in B.Com program. Department of Economics has started Master of Arts in Economics stream, keeping in view the demand and scope of these programs. The college has been sanctioned UGC grant for Five Bachelor in (skill based) Vocational Courses (B.Voc.) in Retail Management and Food Processing & Preservation Hardware & Networking, Agribusiness & Agrarian entrepreneurship & Fashion Technology & Apparel design under National Skill Qualification Framework (NSQF).

2.1.5 Reflecting on the strategies adopted to increase/improve access for following categories of students, enumerate on how the admission policy of the institution and its student profiles demonstrate/reflect the National commitment to diversity and inclusion. SC/ST, OBC, Women, Differently abled, Economically weaker sections, Minority community, any other.

The admission policy of the institution is committed to demonstrate and reflect the national policy of inclusion and diversity. Seats are reserved for SC/ST /OBC/Defence /Physically Challenged/Girl Child as per the national policy. Special Emphasis is laid on the education of the girl child and there is growth in the number of admission of girl students. The following charts clearly reflect the institution's commitment and strategy to follow government's policy of inclusion and diversity.

Table 2.3
Enrollment of Students under SC/ST Category

Year	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
Graduation	48	77	92	130	171	293
B.A.	3	3	3	14	30	63
B.B.A.	1	1	2	9	9	25
B.C.A.	5	15	12	7	6	16
B.Com.	31	53	67	84	98	139
B.Sc.	8	5	8	16	28	40
B.Voc (Retail Mgt.)*					0	0
B.Voc. (Food Pro.)*					0	3
B.Voc (Fashion Des.) ^{\$}						0

B.Voc (Comp. Hardware)						2
B.Voc. (Agri Bus.) ^{\$}						0
PG Diploma	1	0	2	5	3	3
PGDCA	0	0	1	3	2	2
PGDCGA	0	0	1	0	0	0
PGDMC	0	0	0	0	0	0
PGDMM	0	0	0	2	1	1
PGDPM&LW [@]	1	0	0	0	0	0
Post-Graduation	5	6	6	16	20	27
M.A. (Eco.) [#]				2	2	6
M.B.E.	0	1	2	1	5	4
M.Com.	1	1	1	8	8	6
M.Sc.	4	4	3	5	5	10
MEFB	0	0	0	0	0	0
DMLT*					0	1
Grand Total	54	83	100	151	194	323
Annual Growth Rate	34.73%					

* indicates courses started in 2014-15, hence no data is available for earlier years.

indicates courses started in 2013-14, hence no data available for earlier years.

@ No student enrolled for the year 2014-15 in this course.

\$ indicates courses started in 2015-16, hence no data is available for earlier years.

Enrollment of Students under BC/OBC Category

Year	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
Graduation	0	0	0	27	48	49
B.A.	0	0	0	9	7	18
B.B.A.	0	0	0	1	2	2
B.C.A.	0	0	0	3	3	3
B.Com.	0	0	0	14	34	2
B.Sc.	0	0	0	0	0	22
B.Voc (Retail Mgt.)*					2	2
B.Voc. (Food Pro.)*					0	0
B.Voc (Fashion Des.) ^{\$}						0
B.Voc (Comp. Hardware) ^{\$}						0
B.Voc. (Agri Bus.) ^{\$}						0
PG Diploma	0	0	0	1	0	2
PGDCA	0	0	0	0	0	1
PGDCGA	0	0	0	0	0	1
PGDMC	0	0	0	0	0	0
PGDMM	0	0	0	1	0	0
PGDPM&LW [@]	0	0	0	0	0	0
Post-Graduation	0	0	2	6	9	2
M.A. (Eco.) [#]	0	0	0	1	1	0
M.B.E.	0	0	0	2	2	0
M.Com.	0	0	0	0	0	0
M.Sc.	0	0	2	3	6	1
MEFB	0	0	0	0	0	0

MLT*					0	1
Grand Total	0	0	2	34	57	53
Annual Growth Rate	126.89%					

* indicates courses started in 2014-15, hence no data is available for earlier years.

indicates courses started in 2013-14, hence no data is available for earlier years.

@ No student enrolled for the year 2014-15 in this course.

\$ indicates courses started in 2015-16, hence no data is available for earlier years.

Enrollment of Female Candidates in Various Courses

Year	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
Graduation	1461	1491	1460	1743	1975	2368
B.A.	253	304	304	424	499	654
B.B.A.	203	203	187	157	150	150
B.C.A.	175	156	133	109	92	83
B.Com.	568	551	525	523	556	604
B.Sc.	262	277	311	530	667	834
B.Voc (Retail Mgt.)*					8	12
B.Voc. (Food Pro.)*					3	15
B.Voc (Fashion Des.)\$						16
B.Voc (Comp. Hardware)\$						0
B.Voc. (Agri Bus.)\$						0
PG Diploma	55	59	53	33	34	41
PGDCA	23	6	18	8	6	12
PGDCGA	2	5	2	2	0	3
PGDMC	4	11	9	12	9	14
PGDMM	7	16	16	9	19	6
PGDPM&LW@	19	21	8	2	0	6
Post-Graduation	295	281	289	375	453	488
M.A. (Eco.)#				32	75	95
M.B.E.	58	61	63	63	57	27
M.Com.	68	64	77	89	83	100
M.Sc.	166	151	143	186	222	235
MEFB	3	5	6	5	16	25
MLT*					0	6
Grand Total	1811	1831	1802	2151	2462	2897
Annual Growth Rate	8.14%					

* indicates courses started in 2014-15, hence no data is available for earlier years.

indicates courses started in 2013-14, hence no data is available for earlier years.

@ No student enrolled for the year 2014-15 in this course.

\$ indicates courses started in 2015-16, hence no data is available for earlier years.

Enrollment of Students under Defence Category

Year	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
Graduation	28	29	36	65	89	73
B.A.	0	0	0	6	11	11
B.B.A.	1	1	3	10	9	6
B.C.A.	8	6	12	13	17	9
B.Com.	17	19	17	19	28	24
B.Sc.	2	3	4	17	24	23

B.Voc (Retail Mgt.)*				0	0	
B.Voc. (Food Pro.)*				0	0	
B.Voc (Fashion Des.) ^{\$}						0
B.Voc (Comp. Hardware) ^{\$}						0
B.Voc. (Agri Bus.) ^{\$}						0
PG Diploma	0	0	0	2	2	0
PGDCA	0	0	0	0	0	0
PGDCGA	0	0	0	0	0	0
PGDMC	0	0	0	1	0	0
PGDMM	0	0	0	1	2	0
PGDPM&LW [@]	0	0	0	0	0	0
Post-Graduation	0	1	4	14	16	6
M.A. (Eco.) [#]				0	1	1
M.B.E.	0	0	0	3	2	0
M.Com.	0	0	0	4	5	1
M.Sc.	0	1	4	7	8	4
MEFB	0	0	0	0	0	0
MLT*					0	0
Grand Total	28	30	40	81	107	79
Annual Growth Rate	18.87%					

* indicates courses started in 2014-15, hence no data is available for earlier years.

indicates courses started in 2013-14, hence no data is available for earlier years.

@ No student enrolled for the year 2014-15 in this course.

\$ indicates courses started in 2015-16, hence no data is available for earlier years.

Enrollment of Students under Sports Category

Year	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
Graduation	36	90	87	125	139	115
B.A.	25	76	71	105	107	88
B.B.A.	0	0	1	2	8	7
B.C.A.	6	4	4	2	5	4
B.Com.	5	10	10	10	11	8
B.Sc.	0	0	1	6	8	8
B.Voc (Retail Mgt.)*					0	0
B.Voc. (Food Pro.)*					0	0
B.Voc (Fashion Des.) ^{\$}						0
B.Voc (Comp. Hardware) ^{\$}						0
B.Voc. (Agri Bus.) ^{\$}						0
PG Diploma	0	0	0	0	0	0
PGDCA	0	0	0	0	0	0
PGDCGA	0	0	0	0	0	0
PGDMC	0	0	0	0	0	0
PGDMM	0	0	0	0	0	0
PGDPM&LW [@]	0	0	0	0	0	0
Post-Graduation	0	0	0	3	2	0

M.A. (Eco.) [#]	0	0	0	0	0	0
M.B.E.	0	0	0	0	0	0
M.Com.	0	0	0	1	1	0
M.Sc.	0	0	0	2	1	0
MEFB	0	0	0	0	0	0
DMLT*					0	0
Grand Total	36	90	87	128	141	115
Annual Growth Rate	21.36%					

* indicates courses started in 2014-15, hence no data is available for earlier years.

indicates courses started in 2013-14, hence no data is available for earlier years.

@ No student enrolled for the year 2014-15 in this course.

\$ indicates courses started in 2015-16, hence no data is available for earlier years.

Enrollment under Single Girl Child/ Minorities Category

Year	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
Graduation	2	1	3	15	42	69
B.A.	0	0	0	6	15	27
B.B.A.	0	0	3	3	7	11
B.C.A.	1	1	0	1	2	10
B.Com.	1	0	0	1	6	7
B.Sc.	0	0	0	4	12	14
B.Voc (Retail Mgt.)*					0	0
B.Voc. (Food Pro.)*					0	0
B.Voc (Fashion Des.) ^{\$}						0
B.Voc (Comp. Hardware) ^{\$}						0
B.Voc. (Agri Bus.) ^{\$}						0
PG Diploma	0	0	0	1	1	0
PGDCA	0	0	0	0	0	0
PGDCGA	0	0	0	0	0	0
PGDMC	0	0	0	1	0	0
PGDMM	0	0	0	0	1	0
PGDPM&LW [@]	0	0	0	0	0	0
Post-Graduation	1	0	0	8	17	10
M.A. (Eco.) [#]				1	3	2
M.B.E.	0	0	0	2	3	2
M.Com.	0	0	0	1	2	1
M.Sc.	1	0	0	4	9	5
MEFB	0	0	0	0	0	0
MLT*					0	0
Grand Total	3	1	3	24	60	79
Annual Growth Rate	72.48%					

* indicates courses started in 2014-15, hence no data is available for earlier years.

indicates courses started in 2013-14, hence no data is available for earlier years.

@ No student enrolled for the year 2014-15 in this course.

\$ indicates courses started in 2015-16, hence no data is available for earlier years.

Enrollment under Differently Abled Category

Year	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
Graduation	0	1	3	6	7	3
B.A.	0	0	0	0	1	1
B.B.A.	0	0	0	0	1	1
B.C.A.	0	0	0	0	1	1
B.Com.	0	1	2	4	3	0
B.Sc.	0	0	1	2	1	0
B.Voc (Retail Mgt.)*					0	0
B.Voc. (Food Pro.)*					0	0
B.Voc (Fashion Des.) ^{\$}						0
B.Voc (Comp. Hardware)						0
B.Voc. (Agri Bus.) ^{\$}						0
PG Diploma	0	0	0	0	0	0
PGDCA	0	0	0	0	0	0
PGDCGA	0	0	0	0	0	0
PGDMC	0	0	0	0	0	0
PGDMM	0	0	0	0	0	0
PGDPM&LW [@]	0	0	0	0	0	0
Post-Graduation	0	0	0	0	1	1
M.A. (Eco.) [#]	0	0	0	0	0	0
M.B.E.	0	0	0	0	0	0
M.Com.	0	0	0	0	1	1
M.Sc.	0	0	0	0	0	0
MEFB	0	0	0	0	0	0
MLT*					0	0
Grand Total	0	1	3	6	8	4
Annual Growth Rate	31.95%					

* indicates courses started in 2014-15, hence no data available for earlier years.

indicates courses started in 2013-14, hence no data is available for earlier years.

@ No student enrolled for the year 2014-15 in this course.

\$ indicates courses started in 2015-16, hence no data is available for earlier years.

2.2 Catering to Student Diversity**2.2.1 How does the institution cater to the needs of differently-abled students and ensure adherence to government policies in this regard?**

There is a provision to admit the differently abled students who fulfill the minimum/basic criteria of admission under a special quota. After they are admitted to the institution, their needs are catered to while ensuring adherence to government policies in this regard through the following:

All government policies regarding **Admission and Infrastructure** of differently abled students are strictly followed to cater to the needs of such students.

- It is ensured that their classes are held on the **ground floor** while allotting their timetables. There are ramps to facilitate access to classrooms and also adequate **washroom facilities** on the ground floor.
- The entire campus is designed in such a way (**barrier free architecture**) that as soon as a differently abled person enters the campus, he or she can move around from one

block to another without any hindrance for the purpose of attending lectures, fulfilling academic needs, accessing library, etc.

- Library is structured in such a way that it provides wide space between various book racks to have free movement of differently-abled individuals even with the wheel chairs.
- Differently-abled persons who wish to reside in **hostels** as resident students are provided accommodation on the ground floor to cater to their needs and are provided with other necessary facilities on top priority basis.

The institution provides **Financial Aid** in the form of **fee concessions** and **free books** to differently-abled students from its book bank. All kinds of other ceremonial and non ceremonial aids are extended to such students in all possible areas. There is also a provision for availing **scholarships** as per terms and conditions laid down by the affiliating university.

- Every effort is made to accommodate such students during the examinations by providing student helpers. Faculty members also encourage them to explore their latent talent to participate in extracurricular activities to make them realize that their physical disability is not a hindrance to achieve their goals in life.

2.2.2 Does the institution assess the student's needs in terms of knowledge and skills before the commencement of the program? If yes, give details on the process.

Before the commencement of the program, the institution assesses the students' needs in terms of knowledge and skills.

Class XII Marks

The students' Class XII marks serve as a basic indicator of knowledge that they possess and their eligibility for different courses, the college is offering.

Admission to B.Com is through Punjab University centralized admission process and for the rest of the courses admission is done purely on merit.

Academic Vocational Counseling

Our students hail from different parts of the country and even abroad. Some students are from other countries like Thailand, Afghanistan etc. The student's knowledge and skills are assessed before the commencement of the program through:

- Interactive counseling sessions
- Question hours
- Group discussions

Aptitude Test & Personal Interview

The initial assessment of the needs of the students is made through **aptitude test** and **personal interview** after admission process. We have a regular faculty member who is also a registered **Vocational Counselor**, deputed for helping students in choosing the right course. To further assess the knowledge base and skill of the students pertaining to the specific program, special orientation lectures based on the basics and fundamentals of the subject concerned are discussed with students.

Special Sessions

Special sessions are organized to bridge the knowledge gap of the incoming students from different backgrounds. Teachers give extra time to the students to help them cope with the course to which they are enrolled.

2.2.3 What are the strategies drawn and deployed by the institution to bridge the knowledge gap of the enrolled students to enable them to cope with the programme of their choice? (Bridge/Remedial/Add-on/ Enrichment Courses etc.)

The College has adopted effective methods to identify and solve this issue by making teaching more student-centric instead of using just teacher-centered approach and by taking the time to make sure that students are firm in their knowledge of past material before introducing new content. Following is the list of few strategies that our institution has adopted to bridge the knowledge gap of the enrolled students:

Orientation Programs

All the departments of the college have been conducting orientation programs for the newly enrolled students from the day they enter the class, wherein students are given introduction to the course, are made aware of avenues and career opportunities available in their respective subject areas. The students are instructed about handling, using and care of various equipments, tools and literature available for their program of choice in the respective departments.

Extension Lectures

The institution invites experts from the subject area from nearby reputed institutes and industries to deliver talk on generalized to advance topics to make students up-to-date about the current knowledge. This also provides opportunity for the students to interact with the experts and share their views on their respective subjects.

Hands-on Trainings

Almost every department of the institution conducts hands-on-training for the newly enrolled as well as already enrolled students which is very important to develop in them the skills and interest in the program of their choice.

Collaborative Learning

Students are involved in the collaborative learning wherein subject instructor makes sure that all students actively participate in the discussion and group/team projects. Collaborative learning includes group discussions, debates, sharing of ideas making collaborative assignments/projects, case studies, defining small problems and finding solutions to for them etc. This helps in providing opportunity to the students to use their prior knowledge, experience, or insight from somewhere in their past that lent itself to making the connections that would bridge the knowledge gap.

Giving the students a platform to express

Through group discussions and activities, the students are motivated to express their independent views which few students might not be able to express due to a number of reasons. Our faculty tries to involve those students in these types of activities, thereby giving opportunity to all the students to get their voices heard.

Conducting Pre-Tests / Assignments

It is a common feature of all of our departments to conduct pre-tests and assignments on different topics during the session. The faculty administers a test to the students, to find out what the students know about the content which is to be taught to them .

Add-on Courses

The institution at present is running 14 different add-on courses in the faculties of Sciences, Humanities, Commerce & Management and Information Technology. Student from any stream is free to opt for any of these add-on courses. A separate certificate, diploma and advance diploma is awarded to the students after completion of the program apart from the regular degree. Students have the freedom to change and choose a different add-on subject in each year of their course.

Remedial / Tutorial Classes

The institution conducts regular classroom tests / seminars / presentation to identify the below average performing students and special remedial / tutorial classes are arranged for those students on regular basis. For above average performing students special advance level quiz/ debates/ tests are conducted to motivate them further.

Special Summer/Winter Training Program

The institution also conducts special summer / winter training program for the students in the subject area of their choice. Thereby, increasing the much needed knowledge and skills of the students and making them more employable.

Evaluation of Students Progression

Each department of the institution maintains the records of students' progression during each academic year in terms of their marks in internal and external examinations, performance in various inter-college or inter-university competitions etc. Based on these evaluations, low performing students are identified and special classes / tutorials are conducted for them if needed. Also based upon these evaluations, talented students are identified and further encouraged to perform better by providing them with awards, scholarships/studentships.

Providing Scholarships / Free ships

The institute encourages the students by providing studentships / scholarships and free ships to the students whose performance is good in various co-curricular and extra-curricular activities. The institution also provides free ship to students who belong to economically weaker section i.e. need based scholarships are also given. Students are also encouraged to participate in the various educational seminars / symposia/ workshops/ industrial trainings etc. and are provided with financial support for the same.

Industrial / Educational visits

Students are taken for the industrial / educational visits so as to expose them to the needs of the industries and thereby providing them the knowledge they need to think and to develop required skills to fulfill the industry requirements.

2.2.4 How does the college sensitizes its staff and students on issues such Gender, inclusion, Environment? The college is involved in the various activities to inculcate the spirit of Gender, inclusion, Environment awareness.

The college sensitizes its staff and students to various relevant issues by conducting various activities to inculcate the spirit of harmony and raise awareness related to gender issues, inclusion and environment.

Gender

- **Women empowerment:** Mrs. Kaushaliya Devi Verma charitable Institute has been running in the college since 2000 and imparting free vocational training to weaker section of women like cutting and tailoring, Beauty culture and cosmetology to create self-employment and make them financially independent.
- **MANASUDAY (Awakening of mind):** This counseling centre is being run by Psychology Dept. to combat various stress related problems faced by women and students.
- **SPIRIT INDIA** This voluntary organisation under the aegis of AAVAHAN, an NGO regularly conducts seminars and workshops on social problems like female foeticide, dowry and other issues like education and personal hygiene
- A **Special Cell C- CASH** has been established to look into the problems and issues of the staff and girl students.
- The college also reserves seats for **Single Girl Child** in various streams as per the norms.

Inclusion

- **Special classes** are held to promote the overall development of students from various reserved categories, economically backward class and foreign students.
- **Remedial and tutorial classes** are conducted for slow learners. Teachers give extra time to students to cope up with the class without any remuneration.
- **Stipends and scholarships** are given to students from economically weaker section of society by the institution.

Environment Awareness

- **HARITMA-The Environment Society** under the department of Botany , regularly participates in planting herbal and ornamental plants on the campus.
- The staff members and students of NSS, NCC, and SPIRIT INDIA of the college participate in the Cleanliness Drive, Swachh Bharat Campaign and celebrate world Toilet Day.
- Various **lectures** on Environmental issues like Biodiversity, Protection of Nature and Green revolution help in creating awareness about environment.
- **Environmental classes** are part of the Curriculum for students of all streams in their first year of college.

2.2.5 How does the institute identify and respond to special educational/learning needs of advanced learners.

The institute identifies and responds to special educational/learning needs of advance learners through the following:

- College keeps identifying advanced learning through many ways such as **life skill testing program** (Aesthesia Club) which takes a comprehensive test series which includes assessment of their self esteem, well being, personality and anger management. On the basis of these tests, a detailed report of each student gets prepared and conveyed to them through one-to-one counseling.
- On the basis of **marks** scored in the term exams, classroom tests, qualifying exams, advanced learners are identified and are guided properly.
- Various **scholarships** and financial help is made available for meritorious students for attending workshops, conferences etc

- **INFLIBNET facility** and e-books are provided in the college to give Access to online Books/Journals/Research Paper/issue of reference books.
- The college has signed MOUs with international universities for academic enhancement through visits and exchange programs.
- The college Collaborates with **industry** to boost confidence and augment career prospects of advanced learners.
- The college has **research labs** with ultra modern infrastructure to keep pace with the latest scientific needs. Advanced learners are assigned Project work and their teachers give the necessary guidance.
- The college has also been approved as **Research Centre** for Department of Biotechnology and Chemistry.
- **The placement cell** of the college strives hard to build up long term relationships with the corporate sector, by inviting MNCs, Bank etc. for campus placement.

2.2.6 How does the institute collect, analyze and use the data and information on the academic performance (through the programme duration) of the Students at risk of drop out (students from the disadvantaged sections of Society, physically challenged, slow learners, economically weaker Sections etc.)?

Yes, the institute collects, analyses and uses the data and information on the academic performance of the students at risk of dropout, physically challenged, slow learners and economically weaker sections of society, etc.

- The institution has established an effective registrar office which works under the direct supervision of the head of the institution. The registrar of the college is assisted by two sub-registrars from each of the four faculties' i.e (Commerce & Management, Sciences, Humanities and Information Technology).
- Registrar office actively works in collecting and analyzing data on the academic performance of the students as well as track the number of drop out students in the specific program.

Collecting data on Student's Academic Performance:

- The college has its own cloud based **computerized system (TCSiON)** of collecting information and ranking students according to their academic performance. As it is a known fact that class attendance and exam performance has direct relationship, through this automated system the registrar office is capable of keeping a regular track on student's class attendance and exam performance. Also, students and their parents are regularly updated with this information so as to make them aware of their academic performance. Performances of the students in extra-curricular activities is also identified and all these students are also given awards and scholarships.
- Registrar office identifies the students from economically weaker and differently challenged category and suggests the specific aids to improve the performance of these students.

Identification and Support to Students from Disadvantaged section of society:

- Regular discussions with the faculty members and heads of the department are conducted to discuss the issues of students from the disadvantaged section of society. On the recommendation of the registrar office, **freeships or scholarships** are provided to these students. Although, most of these students are given financial support at the time of admission itself, a separate application for the scholarship is also called for after the admission process is over so as to benefit the remaining meritorious students and the students from differently challenged category .

- The Institution has created a **book bank** in the library where outgoing students/faculty or anyone can donate books & study material and these books are given to the students from unprivileged section. The institute also contributes to this book bank every year.

Identification and Support to Slow learners:

- The Institution regularly monitors the students' progression by collecting the academic performance record of each student at university level as well as class performance from their class teachers or class/house tests. On the basis of their performance, registrar office instructs respective heads of the departments to conduct **remedial classes** of these students so as to provide them with the necessary support.
- Teachers are also encouraged to devise new methodologies to help weak students to overcome their learning difficulties.

2.3 Teaching Learning Process

2.3.1 How does the college plan and organize the teaching, learning and evaluation schedules? (Academic calendar, teaching plan, evaluation blue print etc.)

Academic Calendar

Before the new academic year commences, an annual academic calendar is released by Panjab University which is followed by the affiliated colleges.

- The same calendar is followed by our college
- Before the session begins, the academic calendar is published in college prospectus and posted on college website.
- The calendar outlines the session/semester schedule, holiday schedules as well as the examination schedule.

Teaching Plan

- Teaching Plans for all the semesters are prepared beforehand.
- Unit wise syllabus to be covered in each semester is discussed by all members of each department.
- Other than academics, various other activities including seminars, workshops, conferences, excursions, trips, lecture series etc are also discussed in such departmental meetings and the course work along with other duties are distributed to the concerned faculty by the departmental head.
- A copy of the same prepared schedule is submitted to the Principal as well.

Time- table:

The time- table of various disciplines is prepared and displayed on the notice board by Timetable Committee of each faculty.

- While the time table is planned, all guidelines including the number of credit hours for each subject, tutorials etc. are taken into consideration.

Assessment

A proper assessment system is in place to streamline the regular evaluation of students.

- Internal Assessment, based on projects, group discussions, practicals, etc. is carried out.
- A minimum of 75% attendance is required in each course. Online attendance is not only registered everyday by the college faculty and made available to the students as well as their parents. For this a password is issued to each teacher individually by the college authorities. The attendance is made available by sending SMS to the parents

on their registered mobile number so that they can check the regularity of their ward in the class room.

- Special remedial classes are held for the non performers and special tests are held on the basis of such remedial classes.
- Mid Semester Tests (MST) are held by the college before the final exams in which almost 65-70% of the syllabus is already covered.
- The evaluation policy of each course is planned in advance and is communicated to the students well in time.

Evaluation:

After the exams are conducted, evaluation of answer sheets is completed within a week and the results are compiled thereafter so that the teaching time is not wasted in the college. The final evaluation of the students is done after the annual exam according to the university schedule by the Panjab University.

2.3.2 How does IQAC contribute to improve the teaching –learning process?

The IQAC of the college is constantly putting efforts to evolve suitable mechanism and procedure to facilitate effective teaching learning process. The IQAC promotes a culture of academic enhancement through the following measures.

- IQAC organizes Faculty Development Programmes to keep the faculty abreast of the latest development in teaching pedagogy.
- It disseminates relevant information regarding seminars and workshops and their quality enhancement programme.
- It promotes the quality of research by facilitating state of the art labs and library facilities. Latest Research Journals and e-books are provided for the benefit of the students and the faculty.
- It keeps the faculty and students well informed on Major & Minor research projects of UGC and other government bodies.
- IQAC emphasizes the integration and optimization of the latest methods of teaching and learning. There are well equipped smart class rooms & labs and the facility of e-content for students
- The IQAC regularly arranges feedbacks from students/parents and other stakeholders to improve the teaching learning process.
- It ensures a transparent & fair procedure of assessment and evaluation.

2.3.3 How is learning made more student-centric? Give details on the support structures and systems available for teachers to develop skills like interactive learning, collaborative learning and independent learning among the students?

We promote a learning process that is more student centric, participatory and interactive.

Support and Interactive Facilities

Various support activities are offered to the respective teachers so as to promote activities like debates, group discussions, field trips, projects, etc. Students are encouraged to actively participate in them. To improve communicative skills and infuse confidence and to shape the overall personality of the students, quiz, creative writing, poetry competitions, case studies, PPTs are also arranged by the staff. The rooms in the commerce block and seminar halls in various departments of the college boasts of audio visual facilities in the form of smart classrooms.

Library Facilities

The College is well equipped with a library which has books from various disciplines which include classic as well as latest editions. INFLIBNET facilities are also available with several e- journals and e- books. The college has purchased e-books through EBSCO to which the faculty and students have IP based access. The digital library of the college allows students as well as teachers to have the access to internet. The computers and laser printers which are made available to the teachers and students are upgraded from time to time. The campus of college is also Wi-Fi enabled.

Skill Development of Teachers:

In order to develop the skills of the students, the teachers are also required to upgrade their skills. Our teachers are encouraged to organize as well participate in Faculty Development Programs, workshops and seminars so that they can enhance their knowledge and skills.

2.3.4 How does the institution nurture critical thinking, creativity and scientific temper among the students to transform them into life-long learners and innovations?

The institution conducts various academic and allied activities to nurture critical thinking, creativity and scientific temper among the students. Approaches adopted in this regard, though not mutually exclusive are enumerated.

Critical Thinking

- Discussion/Evaluation is made after every academic and allied activity. Many activities are organised by the college including Educational, Institutional and Industrial visits
- Group-Discussions on the topics of prevailing socio-economic , business and scientific issues are organized by various departments.
- Students are encouraged to participate in quiz, debates, declamation contests plays, painting, rangoli competitions, etc. at University level, State level and National level.
- There is General Tutorial system wherein students are sensitized towards inclusive social concerns, human rights, gender and environmental issues.
- Case studies like cases of real business world are discussed along with the theoretical concepts with the students.

Creativity and Innovation

- The students are encouraged to participate in inter/intra collegiate events, stage plays, drama, stage arrangement and decoration during various fests etc.
- Different departments of the institution organise interactive sessions with business leaders, experts, and professionals. There have been such session on NSE and Financial Markets, Synthetic Bacteria, Prospects of Higher Education in US, Relevance of English Studies, Ethics in Governance, Economics of Discrimination, Computing trends and nuances of four basic pillars of network connection etc.
- The college organises paper-reading competitions, slogan-writing competitions, essay-writing competitions, spot-writing competitions, book-reading workshops and film review sessions.
- Participation in article writing for college magazine- named “Tyagmurti” is encouraged. Other events such as poster-making competitions, annual design exhibition, fabric painting etc. are also organised.

- Lectures are organised by NSS unit on various social issues. Many other events such as rallies, camps and peace marches are conducted to inculcate social awareness among the students.

Scientific Temper

- Individual and group projects on latest topics of scientific importance are given to the students.
- The students are urged for participation in paper presentations and publication of research articles/abstracts/papers in research journals/conference proceedings.
- The students are encouraged to organize and participate in seminars and workshops. The college organises programs on environment, global-warming, water-management etc. in NSS camps or in the college campus. For example, every year 'Haritima' - the Environment Society of the college celebrates 'Van-Mahotasava', NSS unit celebrates 'Wildlife Week', participates in 'Safe City Campaign'; and performs skits and screen short films on road safety during 'Road Safety Week'.
- Inter-class quiz, academic presentations and extension lectures are organized by various departments on Business Simulation, General Awareness, and Life Sciences etc.

2.3.5 What are the technologies and facilities available and used by the faculty for effective teaching? Eg : Virtual laboratories-learning –resources from National Program on Technology enhanced Learning (NPTEL) and National Mission on education through Information and Communication Technology(NME-ICT),open educational resources , mobile education etc?

There are a plethora of technologies and facilities used by the faculty to support classroom teaching.

ICT & Teaching Aids

- Emphasis is laid on ICT based teaching to impart holistic education to students. Besides the conventional teaching methods, the faculty members regularly use PowerPoint presentations, information from the internet, case studies, and newspaper clippings in class. Educational CDs and DVDs are made available to students as learning materials.
- Classrooms and seminar halls have adequate provision of electronic teaching aids in the form of LCD Projectors, Smart Boards, OHP machines, and computers with internet facilities. There is provision of JAWS software for visually impaired students, which provides Speech and Braille output for the most popular computer applications on a computer. These teaching aids ,help in making the teaching , more interactive and fun filled .

E-learning and Open Educational Resources

- E-learning and open educational resources are readily accessible to the faculty for effective teaching. There is a dedicated Library Resource & IT Centre in the college where more than 300 PCs and Laptops, with latest configurations, are installed. The PCs are modernized on a regular basis to keep pace with the latest technology available in the market. Apart from computers, various peripherals such as printers, scanners, photocopiers etc., are available in the campus. Internet access is provided in all the blocks of the college through LAN, WAN and Wi-Fi.
- The Library Resource & IT Centre serves as a one stop shop for all requirements of students and faculty with respect to e-learning resources. The digital library, housed in

the Library Resource & IT Centre, is preloaded with e-Books and e-journals. The faculty members and students have access to more than 2,73,000 e-books and more than 6000 e-journals, through various platforms.

- The college has subscribed to N-LIST Programme of the Information and Library Network (INFLIBNET) of the University Grants Commission (UGC). Through this platform, faculty and students have been provided LOGIN based access to more than 6000 e-journals and over 1,35,000 e-books (<http://nlist.inflibnet.ac.in>).
- The college has exclusive subscription to e-books, Academic Collection provided by EBSCO Information Services. This platform provides the faculty and students with IP based access to more than 1,38,000 e-books through intranet (<https://search.ebscohost.com>).
- The college has subscribed to licensed versions of various Statistical Software's like SPSS, MINITAB and SYSTAT etc. which are used by the faculty to impart the practical aspects of education and research. Additionally, the college also has exclusive subscription to Prowess Database maintained by the Centre for the Monitoring of Indian Economy (CMIE). Prowess is a database of the financial performance of Indian companies. The college provides open access to Prowess to its faculty, students as well researchers from other institutions.
- The college has initiated a move towards e-learning by signing into an MOU with Tata Consultancy Services (TCS) whereby TCS has made available a customized e-learning, Learning Management System (LMS). The e-learning LMS provides searchable learning, information, collaboration, and social networking features which has opened up new avenues for imparting wholesome and holistic education to students. A faculty member can interact virtually with students, send them instruction materials online (e-books, audio, video, presentations, case studies etc.), and accept online assignments etc.

Orientation Programmes

At the commencement of the academic year, orientation programmes are arranged for students by the library staff to coach them about the various resources available. In addition to orientation programmes for students, frequent orientations and trainings are arranged for faculty members to apprise them regarding the use of electronic teaching aids educational resources.

Mobile Education

Fieldwork, which includes excursion tours and industrial visits are an essential part of the curriculum of most departments of the college. Throughout the academic year, various departments organize study cum excursion tours and industrial visits to local as well as nationwide sites. On site and practical exposure proves highly valuable for students as an extension of classroom teaching.

Students, research scholars and the faculty make optimal use of these resources in academic, co-curricular activities, as well as community outreach activities.

2.3.6 How are the students and faculty exposed to advanced level of knowledge and skills (blended learning, expert lectures, seminars, workshops etc?)

Keeping in view the dynamism required in the field of education, the college has been engaging the faculty and the students in an array of activities aiming at enhanced learning, skills and personal development. A synoptic view of the same is discussed below:

Student-Centric Learning**Seminars and Workshops**

Various National and International Level seminars have been conducted to provide an insight to the novelties of various fields. Various workshops have been held for the overall development of the students.

Table 2.4
Seminars and Workshops

S.N	Department	Level	Topic	Resource persons	Date
1	Economics	National Seminal	Socio Economic impact of green economy and sustainable development	Prof. R.K. Kohli, VC Central University, Punjab. Prof. M.N. Murty, Institute of Economic growth, New Delhi.	Feb,12, 2015
2	College	Workshop	How to face personal interviews, resume writing and personality development	Dr. Rohit Kwatra, IIM, Calcutta	Feb 18-22, 2015
3	Bioinformatics and Biochemistry	Workshop	Next Generation Sequence Data Analysis and Structural Bio-informatics	Rajender Singh Sangwan, Head & chief executive, Center of innovative & Applied Bioprocessing (CIAB), Mohali. Dr. Prabhu B. Pal, Scientist, IMTECH, Chd. Ms. Sumri Midha, IMTECH, Chd. Dr. Ashish George, Thermo Fisher Scientific, South Asia. Dr. Naidu Subbarao, School of Computational & Integrative Studies, JNU.	Feb 24, 2015

4	Economics	Workshop	Computational Economics	Dr. Nitin Arora, Expert in Econometrics, Department of Economics, PU, Chandigarh	Mar 17-23, 2015
5	College	National Seminar	Violence Memory and Identity	Col. G.S. Chaddha, Registrar, Panjab University. Prof. Jagroop Sekhon, GNDU, Amritsar. Prof. Pradeep Trikha, Udaipur University	Nov 4, 2015
6	Biotechnology	Workshop	Fermentation Process from Petri Plate to Bioreactor	Prof. Anand K. Bachawat, Professor & Dean, IISER, Mohali. Dr U.C. Bannerjee, Head, Pharmaceutical Dept, NIPER, Mohali, Dr Naveen Gupta, General Secretary, AMI (Chandigarh unit), Er. Anoop Verma, Thapar Univ., Patiala. Dr. Wamik Azmi, H.P University, Shimla. Dr A.R. Chaudhary, IMTECH, Chd. Dr Senthil Prasad, IMTECH, Chandigarh, Dr V.K. Joshi and Y.S.Parmar University, Solan, Dr R.S. Singh, Punjabi University, Patiala, Dr H.S. Raghu, NDRI, Karnal.	Jan 6-15 2014

7	Chemistry	Workshop	Instrumental Techniques in Chemistry	Professor Ashok K Vijh, Research Institute of Hydro Quebec, Quebec Montreal, Canada. Dr. Rakesh Singh Dhanda, Department of Translational and Regenerative Medicine, PGIMER, Chd	Jan 17-18, 2014
8	Commerce	National Seminar	Business Growth and Corporate Sustainability	Professor Ashok K Vijh, Research Institute of Hydro Quebec, Quebec Montreal, Canada	Jan 17, 2014
9	Economics	Workshop	Economic Environment For Business in India Reforms and Challenges	Prof. Upinder Swahney, PU, Chd	Jan 28, 2014
10	IT	National Seminar	Emerging Trends in IT: Challenges and Strategies	Mr. Anil K Gupta, Commissioner, Excise and Taxation, UT, Chd., Mr. Prem Kumar Ojha, Vice President, Videocon Telecom. Prof. Harish Karnick, Department of CSE, IIT Kanpur. Dr. Manoj Kumar Head CSE, Ambedkar Institute of Advanced Communication Technologies and Research Dr. Manu Sood, Department of Computer Science and Applications, HP university, Shimla.	31 Jan, 2014

				Dr. Indu Chabra, Department of Computer Science and Application, PU	
11	Physics	State Level Seminar	Recent Advances in Material Science	Experts from NIPER, NITTR, INST, PEC	Feb 1, 2014
12	Biochemistry	Workshop	Different Chromatographic Methods to Isolate Proteins	Scientists from GE Healthcare	Feb 4-6, 2014
13	Botany	College Level Seminar	Emerging Trends in Plant Sciences	Dr. Bhupinder Singh Bhoop, Dean, faculty of Pharmaceutical Sciences, PU, Dr. Sunil Kumar Hota, Head, Experimental Biology Division, DIHAR Dr. Promila Pathak, Department of Botany, PU, Chd	Feb 8, 2014
14	Biochemistry	Workshop	Real Time PCR Technology in Clinics and Biological Science	Experts from Invitrogen Life Technology	Feb 13, 2014
15	Bioinformatics	Training Session	JAVA and PHP for Bioinformatic Data Management And Analysis	Dr. Sudhandhu Srivastva, Seth Jai Parkash Mukund Lal Institute of Engineering and Technology, Yamunanagar, Haryana.	Feb 14-15, 2014
16	Biotech	College Seminar	Global Outlook on Biotech & Pharma Patents	Dr. Parikshit Bansal, Managing Director, Excellion Innovations, Mohali, Mr. Garry	Feb 15, 2014

				Bedi, Sr. Scientist, Intellectual Property Management, IMTECH, Chd, Dr. Dapinder Kaur Bakshi, PSO (Biotech.), Punjab State Council for Science & Technology Mr. Harit Mohan, CEO, Signicent Information Solutions LLP	
17	History	National Seminar	Continuity of the Harappa Culture in the Indian Historical Context	Prof. Ashwani Aggarwal, former Dean and Chairman of the Department of Ancient Indian History, and Archaeology, PU	Mar 10, 2014
18	College	Workshop cum Interactive Session	CSAT	Mrs. Vamsi Krishna Chaudhary , (Leading educationist) IAS Birbal Das Dhalia (retd)	Jun 23, 2014
19	English	Workshop	Photography Workshop On occasion of 'World Photography Day'.	Mr. Sandeep Sahdev, India Today Group	Aug 14, 2014
20	IT	Workshop	Android Software	Mr. Aprajita Senior Technical Associate, Infosys Technologies, Chd	Sep 12-13, 2014
21	College	College Seminar	Bridging the Gap Together : To involve NSS volunteers in active social service in association with NGO	Mr. Ripu Daman Chopra, NGO BTGT Ms. Promila Handa, NGO BTGT Ms. Anu Narang, NGO BTGT	Sep 16, 2014

22	Economics	Workshop	'Soft Skills Development'	Mr. Rohit Kwatra, MBA (IIM Calcutta)	Nov 9-12, 2014
23	Chemistry	College Seminar	Current Trends in Chemistry	Dr. Shweta Kapoor, Assistant Professor, Dept of Forensic Sciences & Criminology, Panjab University Mr. Ravinder Narula, Deputy Director General BIS	Nov 15, 2014
24	Fashion Designing	Workshop	Fabric painting and design development	Ms. Narita, certified hobby art teacher Pidilite Industries	Nov 17-19, 2014
25	Botany	Workshop	'Biofertilizers and their Role in Sustainable Agriculture'	Dr. Neera Garg, Professor, Department of Botany, Panjab University	Nov 29, 2014
26	Fashion Designing	Workshop	Art and Craft	Experts from Fevicryl	Jan 24-25, 2013
27	Journalism	College Seminar	Ethics in Media and its Social Responsibility	Mr. Vivek Attray (Director, Hartron), Dr. Archana R. Singh (Chairperson, School of Communication Studies, PU), Mrs. Aruti Nayyar (Chief Sub Editor, The Tribune)	Feb 2, 2013
28	Journalism & Mass Communication	Workshop	Video Editing	Mr. Mandeep Sodhi (Director of Sodhi Creative Films, Canada)	Feb 7-8, 2013
29	Biochemistry	Workshop	Different Chromatographic Methods to isolate Proteins	GE Healthcare	Feb 7-8, 2013
30	Biotechnology	Workshop	Role of E-Resources in Scientific Research	Dr. Sridhar Gautam	Feb 20-21, 2013

31	Biochemistry	Workshop	RT-PCR Interference Technology	Dr. Sudesh Kumar, Scientist, EIHBT(CSIR Lab), Palampur	Feb 22-23,2013
32	Biotechnology & Microbiology	Workshop	From Petri plate to Bioreactor	Dr. U.C. Bannerjee(Prof & HOD, Pharmaceutical Technology, NIPER, Mohali), Dr. Vijender Mishra (NIFTEM, Sonipat), Dr. Wamik Azmi (HPU, Simla), Dr. G.S. Kochhar (PAU, Ludhiana), Dr. Javed (GE Healthcare), Dr. Jagtar Singh, Er. Amit Sobti (PU), Er. Chaudhary (IMTECH), Er. Anup Verma (Thapar univ.)	Feb 22-23, 2013
33	IT	Workshop	PHP	Any Web Solutions	Mar 11-12, 2013
34	Biochemistry	Workshop	2D Gel Electrophoresis	GE Healthcare	Mar 15, 2013
35	Psychology	College Seminar	Current Perspectives and Future Trends in Psychology	Professor Vidhu Mohan (Psychologist)	Sep 13, 2013
36	Botany	Workshop	Techniques for Collection and Preservation of Herbarium	Sh. Gurdev Singh Department of Botany, PU, Chd	Nov 28, 2013
37	Botany and Haritima	College Seminar	Application of Science	Dr. Priyanka Sharma IMTEC, Chandigarh	Jan 14, 2012
38	Fashion Designing	Workshop	Creativity	Fevicryl	Jan 16-18, 2012
39	Biotechnology	National Symposium	Bio-technology Research and Development	Dr. Rakesh Tuli, ED, NABI, Mohali, Dr. V. C Kalia, Senior Principal	Feb 4, 2012

				Scientist, IGIB, New Delhi, Dr. Kuldeep Singh, Director, School of Agriculture, Biotechnology, PAU, Ludhiana. Dr.Prince Sharma, Dept of Microbiology, PU, Chd. Sh. M.L Sharma, Expert Electron Microscopy	
40	College	National Seminar	Educational Reforms: Challenges and Strategies	Prof. Arun Grover(VC,PU), Prof. Sudhanshu Bhushan (Head, dept of Higher and Professional Education, National University of Education Planning and Administration, New Delhi), Prof. A.K.Vashisht (Chairman, UBS), Prof. Vijay Kaushal (ICDEOL,HPU)	Feb 9, 2012
41	Bioinformatics	Workshop	Application of SPSS in Bio Medical Sciences	Dr. Suresh Sharma Coordinator Dept of System Biology and bio Informatica , PU Chd.	Feb 22, 2012
42	Commerce	College Seminar	Non Banking Financial Companies	Mrs. Veena Roy Singh Deputy General Manager RBI	Feb 24, 2011
43	BBA	College Seminar	Career Orientation Seminar	Mr. Raghav Business Manager, TIME	Feb 27, 2012
44	Commerce	College Seminar	Value Added Tax and Service Tax	CA Amarjit Chopra, CA Alok Gupta Krishan	July 6, 2012

45	Commerce	College Seminar	Life of a graduate	AISEC, Kal Korff, Director at Hour-Daily Post.	Aug 29,2012
46	Journalism	Workshop	Radio Jockeying Skills	Mr. S.P. Singh Director, Institute of Radio Jockey	Sep 12, 2012
47	BBA	College Seminar	Digital Marketing	NIIT	Sep 20, 2012
48	Botany	College Seminar	Environment Nano-technology	Dr. (Mrs.) Priyanka from IMTEC, Chd.	Nov 22,2012
49	Commerce	College Seminar	Service Tax	CA R.K. Khanna	Nov 27,2012
50	BBA	National Seminar	Arbitration	Sh. J.R Singla Additional Judge(Retd), Pb.	Mar 11,2011
51	BBA	College Seminar	Innovative Branding	Mr. Sumit Gupta, Asst. Manager, Hindustan Times	Aug 26,2011
52	Economics	College Seminar	Soft Skills	Mrs. Nisha Angrish	Sep 10, 2011
53	BBA Club	College Seminar	How to ace Group Discussions	Mr. Nischal Anand Singh	Sep 16, 2011
54	Commerce	College Seminar	Scope and Process of Consumer Research	Mr. Pura Singh Research Scholar, University Business School	Sep 17, 2011
55	Economics	College Seminar	Resume Writing	Mrs. Nisha Angrish	Sep 20, 2011
56	IT	Workshop	Information security	App in technology	Oct 18,2012
57	Commerce and ICSI	College Seminar	Income Tax	CA. P.V Jain Former Chairman, ICICI Chandigarh	Nov 28,2011
58	Biotechnology	Workshop	Two Days workshop on Fermentation Technology	Dr. U. C Banerjee (NIPER),	Dec 23-24,2011

Expert Lectures

A series of special lectures have been organized from time to time by the various departments of the college, in order to augment the learning and provide a practical outlook to the students. The details of such events are given below:

Table 2.5
Expert Lectures

S.No.	Department	Topic	Resource Persons	Date
1	BBA Club	You Can Win, Motivational Talk	Mr. Shiv Khera	Jan 23, 2015
2	Hindi	"Hindi Kahani: Ek Vishleshan."	Prof Yojana Rawat, USOL, Panjab University	Feb 2, 2015
3	Journalism & Mass Communication	'The Emerging Trends and Challenges in Journalism'	Mr. Dinesh Kumar, Associate Editor, The Tribune.	Feb 4, 2015
4	Biochemistry	Three-Day Lecture Series on "Enzyme Kinetics"	Dr. U C Banerjee, Senior Professor, NIPER Mohali.	Feb 16, 2015
5	Political Science	Life and Philosophy of Shaheed Bhagat Singh	Prof. Sucha Singh Gill, CRRID	Sep 28, 2015
6	Biotech	Entrepreneurship Opportunities	Mr. Rahul Taneja, Scientist, Haryana State Council for Science and Technology	Jan 21, 2014
7	Bioinformatics	Bioinformatics: Its Prospects and Applications	Dr. Ashok Kumar Department of System Biology and Bioinformatics, PU	Jan 22, 2014
8	English	Gender Politics	Professor Rumina Sethi, Department fo English and Cultural Studies, PU, Chd	Jan 30, 2014
9	Zoology	Decline in Number of House Sparrows: An Indicator Of Continuous Degradation of Environment	Dr. Ravneet Kaur , PU, Chd	Feb 1, 2014
10	Bioinformatics	Microarray Chip Technology	Dr. Veena Puri, Department of System Biology and Bioinformatics, PU, Chd.	Feb 6, 2014
11	Physics	Random Numbers& Monte Carlo Simulation	Dr. Sunita Srivastva, Department of Physics, PU, Chd.	Feb 6, 2014
12	Biochemistry	Bacteria	Dr. Ranjna Bhatia, UIET, PU, Chd.	Feb 10, 2014
13	College	Gender Sensitization	Dr. Rajesh Gill, Department of Sociology, PU, Chd.	Feb 12, 2014

14	Psychology	Stress Management: About anxiety and its effects	Mr. V.K. Kapoor, Former IPS officer.	Feb 21, 2014
15	Biochemistry	Metabolic Engineering & Plant Proteomics	Dr. Sudesh Kumar, Scientist E Dr. Somdutt, Scientist C, IHBT Palampur CSIR Lab	Feb 21, 2014
16	Physics	Basic concepts involved in Quantum Field Theory (QFT).	Professor C.N. Kumar, Department of Physics, PU, Chandigarh	Apr 5, 2014.
17	Physics	Discussion was on the basic techniques involved in Material Science	Dr. Gurpreet Singh (RA), Department of Material Science, Bresecia University, Italy	Aug 1, 2014.
18	College	Ethics is Fundamental to Good Leadership	General V.P. Malik, Former Chief of Army Staff	Aug 30, 2014
19	Economics	'Economics of Discrimination'	Dr. Smita Sharma, Department of Economics, PU	Sep 6, 2014
20	Information Technology	Personality Development Program on 'Management through Self-Management'.	Mr. Prem Ojha, Vice President, Videocon Telecommunications.	Sep 10, 2014
21	Physics	Delay-coupled Diode Lasers: Photonic test-bed to study and control of Coupled Oscillators Functionality	Dr. Pramod Kumar, Post Doctoral Research Associate, Indian Institute of Science Education and Research, Mohali	Nov 18, 2014
22	Information Technology	Computing Trends and nuances of four basic pillars of network	Dr. Hardeep Singh, Professor, Dept of Computer Science & Engg. Guru Nanak Dev University, Amritsar	Nov 21, 2014
23	Psychology	Meditations, healing practices	Mrs. Bharti Kapoor Renowned Psychologist and meditation therapist	Nov 22, 2014
24	Biochemistry	Synthetic Bacteria	Dr. Ranjan Bhatia (UIET,PU)	Feb 9, 2013
25	Physics	LHC Experiments & Higgs Boson in context of Universe, Nano Science	Prof. Suman Beri and Prof. Keya Dharamvir Dept. of Physics, PU	Feb 21,2013

26	English Dept	Interactive Session	Sunjeev Sahota, British Novelist	July 25, 2013
27	Physics	Physics: A Journey from Macro to the Microworld	Professor Manmohan Singh, Department of Physics, PU, Chd.	Aug 24, 2013
28	Commerce	Ethics in Governance	Dr. Subhash Sharma, Director, Academic Staff College, GNDU, Amritsar Dr. Gurmohan Singh Walia, Vice Chancellor, Guru Granth Sahib World University, Fatehgarh Sahib. Dr. Raghbir Singh, Professor, Faculty of Commerce and Management, GNDU, Amritsar Dr. B.S.Bhatia, Professor of Eminence, Guru Granth Sahib World University, Fatehgarh Sahib. Dr. G.S Batra, School of Management Studies, Punjabi University, Patiala Dr. S K Chadha, professor, UBS, PU, Chd.	Aug 31, 2013
29	College	Interactive Session on Innovative Teaching	Dr. Vinay K Chaudhary, Programme Director of Artificial Intelligence Centre at Stanford Research Institute, California, USA	Oct 4, 2013
30	Physics	Quantum Physics	Professor C.N Kumar, Department of Physics, PU	Oct 23, 2013
31	Physics	Electronics	Professor A.K Jain, Department of Physics, PU	Oct 25, 2013
32	IT	Network Security Covering: Secured Programming Cloud Computing And Penetration Testing	Experts from APPIN	Nov 12, 2013

33	Bioinformatics	Molecular Modeling, Drug designing and Micro array techniques	Dr. M. Elizabeth Sobia, Assistant Prof. Dept of Pharmaceutical, NIPER Mohali	Mar 18, 2012
34	Commerce	Prospects of Higher Education in US	Mr. Donald Maynard, American Centre	Aug 18, 2012
35	Commerce	NSE and Financial Markets	Mrs. Renu Bhandari Manager, National Stock Exchange	Aug 9, 2011

Blended Learning

Innovative techniques like role plays, case studies, group discussions, special projects and internships, industrial visits and tours and excursions organised to make the curriculum interesting, participative and practical.

Career Counseling and Placements

Career counseling and placements career orientation seminars have been held by the placement cell of the college in association with TIME, BULLS EYE, EDU Corp etc. for psychological testing, polishing skills, counseling and informing students about all upcoming and possible academic and career avenues. NSE certified Capital Market Professional Course had been started through an MoU with National Stock Exchange to give an edge to the students, looking for a profession in investment banking and Stock Exchange.

Fests and Events

In order to ensure overall development of the students, the college provides an opportunity to the students to organize and participate in various Intra and Inter college fests and events. The details of the events are as follows:-

Table 2.6
Intra and Inter College Fests and Events

S.No.	Type of Activity	Department/ College	Topic	Date
1	Annual Fest	BBA	Panache 2015	Jan 23-24, 2015
2	Student Activity	Readers Club of the college in association with the Hindi and Sanskrit Departments	Discussion of Two Books	Feb 2, 2015
3	Essay writing Competition	Botany	Green Revolution and Urban Forestry	Feb 15, 2015
4	Competition/ Exhibition	Fashion Designing	Traashanaa -2015	Feb 25, 2015
5	Annual Sport Meet	College	Promoting sports and team spirit	Feb 27-28, 2015
6	Fest	Economics	ECONOPHORIA 2K15	Feb 28, 2015

7	Annual Fest	College	VIRASAT 2015	Mar 4, 2015.
8	Slogan writing Competition	Zoology	Conservation of Biodiversity & Bio Sciences in the Service of 'Humanity'	Jan 20, 2014
9	Essay Writing competition	Zoology	'Evolution: The key to survival'	Jan 22, 2014
10	Play	English Literary Club	Refund by Hungarian Writer Fritiz Karinthy	Feb 5, 2014
11	Poster Making Competition	Zoology	'Sparrow Awareness Day'. The event was held in the P.G.I.	Mar 20, 2014
12	Group Discussion	Journalism & Mass Comm.	The Degrading Effects of SMS Language on the Youth	Aug 9, 2014
13	Two day Talent Search Contests	College level	Students shortlisted participated in the PU Zonal Youth and Heritage Festival	Aug 21-22, 2014
14	Poster Making Competition	Zoology	'Curbing Tobacco Epidemic in India'	Sept 17, 2014
15	Fest	College	9th International Youth Peace Fest	Sep 28-29, Oct 2, 2014
16	Movie Screening	Psychology	Schizophreniatism	Nov 1, 2014
17	Competition	Botany	Slogan Writing, Poster Making and Declamation contest	Nov 7, 2014
18	Competition	COSMID Club and Bioinformatics Club	COSMID	Nov 11, 2014
19	Competition	Hindi	On the Spot Writing competition	Nov 18, 2014
20	Fest	Commerce & Management	Fest O' Comm	Nov 28-29, 2014
21	Fest	IT	Phoenix	Jan 18, 2013
22	Mock Interview & Group Discussion	English	Developing skills to face interviews & GDs to increase employability	Jan.24,2013
23	Fest	Sciences	Biorhythm	Feb 2, 2013

24	Science Day	Sciences	Environment and Energy Conservation	Feb 2, 2013
25	Play	English	Mother's Day	Feb12,2013
26	Exhibition	Fashion designing	Traditions-2013	Feb 13-14, 2013
27	Cultural Fest	College	Virasat	Feb 18, 2013
28	Educational Visit	Physics	DRDO TBRL Laboratory, Chandigarh	Feb 20,2013
29	Slogan Writing Competition	Botany	Environmental Monitoring	Jan 14, 2012
30	MBA Counseling	BBA	MBA Roadies 1.0	Jan 28-29, 2012
31	Declamation competition	College	Inter Tutorial	Feb 15, 2012
32	Quiz and GDs	English	General Awareness	Feb 16, 2012
33	Fest	BBA	Panache	Feb 17, 2012
34	Cricket Match	Inter departmental	Developing Sportsmanship and Team Spirit	Feb 24-25, 2012
35	International Youth Peace Fest	Peace Club	World peace (In association with Yuvsatta)	Sep 27, Oct 2, 2011 Sept. 21-Oct 2,2012
36	PU Zonal Youth and Heritage Festival	Inter college	Participation and won accolades in different competitions	Oct. 17-20, 2012 Oct 20-23, 2011
37	Educational Visit	Mass Communication & Functional English	Day & Night News Channel	Oct 13,2012
38	Slogan writing competition	Botany	Environment, AIDS, Female foeticide.	Nov 5, 2012
39	Educational Visit	Botany	NDRI, Karnal, Kalpana Chawla Planetarium & Science Museum, Kurukshetra	Nov 7,2012
40	Quiz	Botany	Life Sciences	Nov 8 ,2012
41	Educational Visit	BBA	International Trade Fair, new Delhi	Nov 17, 2012

42	Group Discussion	BBA	Business related topics (In association with Bulls Eye)	Nov 22, 2012
43	Educational Visit	Mass communication & Journalism	Doordarshan	Nov 30, 2012
44	Life skill Testing	Psychology	Know Yourself Better	Aug 10, 2011
45	Debate and Photography Competition	Mass Communication	Emotions and Nature	Sep 16, 2011
46	Fest	Psychology	Paradigm 2011	Nov 17, 2011
47	College magazine	College	Tyagmurti (Contribution of students creativity and intellect in the form of articles, poems etc.	Annual
48	General Tutorial System	College	For holistic development of the students	Annual

Educational Visits and Excursions

Industrial visits and excursions are integral part of our curriculum to facilitate the overall development of the students. A list of the same is as follows :-

Table 2.7
Educational Visits & Excursions

Sr No	Date	Educational Visit / Tour/ Excursion	Name of the Department	Name of Teacher/s Accompanied	Description
1	16-25 Oct, 2015	Exhibition Visit	Department of Fashion Designing	Ms. Sumita Sikka	Odissa Handloom and Handicraft Fair, Chandigarh
2	5-9 Nov, 2015	Visit	College	Dr. Virender Singh, Mr. Anubhav Sharma, Mr. Abhay Singh, Dr. Liza	Nainital
3	7 Nov, 2015	Exhibition Visit	Department of Fashion Designing	Ms. Sumita Sikka	Silk Expo., Chandigarh
4	27 Nov, 2015	Educational Visit	Department of Fashion Designing	Ms. Sumita Sikka	Handloom Daris and Weaving Industries, Panipat

5	26 Aug, 2014	Educational visit	Department of Journalism And Mass Communication	Ms. Priya Khanna Chadha, Ms. Divya Jyot Randev.	Visit to All India Radio, Chandigarh
6	6 Sep, 2014	Educational visit	Department of Psychology	Dr. (Ms) Tarundeep Kaur, Dr (Ms) Minakshi Rana ,Mr. Harender.	Visited Himachal Hospital for Mental Health and Rehabilitation, Shimla
7	16 Sep, 2014	Educational visit	Department of Zoology	Dr. Indu Mehta	Educational trip to CIL, Panjab University, Chandigarh
8	7-17 Oct, 2014	Educational visit	Department of Chemistry	Ms. Priyanka Mor, Ms. Rupanjeet Kaur	Attended ICPPC 2014 at Kotayam, Kerala.
9	11 – 13 Oct, 2014	Educational Visit	Department of Chemistry	Ms. Priyanka Mor, Mr. Rupanjeet Kaur	ICPPC Kottayam, Kerala
10	13 Oct, 2014	Educational Visit	Department of Fashion Designing	Ms. Sumita Sikka	Nahar Industrial Enterprises, Punjab
11	15 Nov, 2014	Tour Excursion	Department of Zoology	Dr. Sangeeta Pandit	Mahendra Choudhary Zoological Park, Chhatbir, Aam Khas Bagh and Fatehgarh Sahib Gurudwara
12	27 Nov, 2014	Educational Visit	Department of Botany	Dr. Aruna Saini	Verka Milk Plant, Mohali & Nepali Forest, Sarangpur

Augmenting Faculty Development

Seminars, Workshops and FDP's

In purview of enhancing the learning and keeping the teachers abreast with the current knowledge relating to their respective fields, the college has not only given a platform to organize seminars, workshops and FDPs but also provides an opportunity to the faculty to attend workshops and Faculty Development Programmes in other colleges nationwide and also internationally. Experts from academia and industry have been invited as resource persons to share their knowledge and expertise. The teachers also present papers based on their work in their respective fields of research. Details of various FDPs and ISWs organized for the faculty is given below:

Table 2.8
List of FDPs and ISWs

Sr. No.	Type	Department	Topic	Resource Person	Year
1.	Workshop	College	Automation System in education Sector , Under RUSA	Experts from TCS and EBSCO	Feb 18-20 2016
2.	FDP	College	Instructional Skills Workshop	Dr. Monica Sachdeva, Dr. Ajay Sharma	Jan, April and May 2015
3.	Workshop	Commerce	Computerised Accounting Course under Pradhan Mantri Kaushal Vikas Yojana, Skill Sector Council	SKD Leaning Pvt. Ltd., Chandigarh	Oct 22- 28, 2015
4.	FDP	College	Instructional Skills Workshop (Peer based Educational development Programme)	Dr. Maureen Wideman, Director of teaching and learning, UFV, Canada.	Oct 15-21, 2015
5.	FDP	Biochemistry	Protiomics	Experts from GE healthcare	Feb 4-6, 2014
6.	Workshop	Economics	SPSS	Dr. Tejinder Pal Singh, Asst. Prof., UBS, Panjab University	Apr 4, 2014
7.	FDP	College	Imbibing Latest Pedagogical Skills	Dr. Manoj Sharma Mr. R.V.S Minhas	May 17-24, 2014
8	Workshop	College	Instructional Skills Workshop (Peer based Educational development Programme)	Mr. Raymonde Tickner , Faculty of Acess and Continuing Education, UFV, Canada	Aug 18-23, 2014
9	Presentation	Mathematics	Real World Applications of the Theory of Differential Equation	Dr. Sargam Preet, Asst. Prof., Department of Mathematics, SD College, Chd.	Sep 2, 2014
10	Workshop	Fashion Designing	Fabric Printing	Ms. Narita, Pidilite Industries	Nov 17-19, 2014

11	Workshop	College	Emotional Intelligence	Prof. Suzan Beattie, Lawyer and Certified Coach, facilitator and Professional Speaker, UFV, Canada	Nov 22,2014
12	FDP	College	Enhancing skill set, Teaching Techniques and Methodology of the Faculty	Dr. Wendy Borton, Director, Teaching and Learning UFV, Canada	Apr 27-May 3 2013
13	FDP	Bioinformatics	Research Methodology in Bioinformatics	Dr. M. Elizabeth Sobia, Assistant Professor, Department of Pharmacoinformatics, NIPER, Mohali Mr. Birender Kumar, Head, P.G Department of Bioinformatics. Mr. Nikhil Sharma, Information officer, sub-DIC Centre for Bioinformatics, HPU, Shimla.	Oct 15-22, 2013

Keeping in mind, the career advancement and growth of the faculty, the college gives due importance to Orientation, Refresher and short term courses.

Conferences

The college has organized many National and International conferences for giving exposure and interactive platform for discussions on issues in higher education. The faculty members have also been a part of many conferences both at the national and international level and presented papers in the same.

Research Initiative

The college has doctoral Research Centers in Chemistry and Biotechnology. The college library provides an access to many books, journals and newspapers and also provides the facility of e-resources like Infilbnet N-List, EBSCO and PROWESS for research work. Many workshops on data handling and analysis on SPSS, EVIEWS, STATA, GRETL etc. have been organized in order to support and augment the research based learning.

Faculty Exchange programmes

Teacher exchange programme with the University of Fraser Valley, Canada has been a motivating factor and has proved very productive for the faculty.

2.3.7 Detail (process and the number of students\benefitted) on the academic, personal and psycho-social support and guidance services (professional counseling/mentoring/academic advise) provided to students?

Career Guidance Cell

A guidance cell is run in the college for academic counseling. Our faculty has been especially deputed for this purpose. We have a counseling committee run by our college teachers. One of our faculty members who is a trained and registered counselor is also a part of the committee. The team together has been providing the following services:

- Helping students decide upon academic roadmaps for themselves.
- To acquaint them with various career options through seminars, field trips etc.
- Aptitude tests are conducted to see the proclivity of the students. Students on the basis of these tests take their career decisions.

Manasuday - Stress Management Center

Our college has always been a step ahead in understanding and catering to the need of their students. In an endeavor to help students deal with their every day anxieties and stresses, the college has opened a centre by the name of “Manasuday”. It is the region’s first and one of a kind initiative taken by a college to help its students in their optimum development. The purpose of the centre is to provide: individual stress management, assessments and prescriptions, followed by exploration and practice in various techniques, and finally skill development. The emphasis of this centre is on providing a number of approaches for the control of harmful anxiety.

The centre has been providing services like one to one counseling, self instructional and motivational material for individuals facing inconsequential stress and social stimulation techniques for training in a group setting. This is an endeavor of the college management to provide on-campus help to students learn new skills of dealing with stress. The centre is working on enabling students to integrate themselves with the milieu especially adjusting to the changed environment. The students are counseled on diverse issues ranging from some personal, psychological to social and academic.

Mentoring

Mentoring of the students is our top priority. Each teacher takes keen interest to mentor students under their changed environment. Newcomers in hostels are given special attention. Faculty members are always available to listen to the problems of the students. A general tutorial is held once a month for all the college students as a part of value inculcation among students. They are given topics of social relevance chosen from everyday life, helped to brainstorm and further express their views on the topics thus enabling them develop a broader perspective about everyday concerns.

Placement Cell

The Placement cell of the college helps the students take charge of their career development by exploring their options for securing the ideal job. The Cell not only offers help with career choice and job hunting but also helps in developing skills that employers look for by conducting training workshops. Our college has been pioneer in getting graduate students directly placed in banks as probationary officer.

Several employers participate in on-campus presentations, talks and workshops. Campus recruitment fairs and interviews are organized to help the students find placements in companies of repute. Institution organizes various placement drives at the campus by inviting MNC's and many National level based industry houses of repute. In all 24 companies visited our college in the last session. Few companies like IBM, Daksh, Dell, Earnest & Young, Google, HCL Technologies, WIPRO, Ranbaxy, Panacea Biotech, Unicon investment Ltd, IndusInd Bank etc. have come to our college from time to time to conduct placement campus drives. In all, last year 844 students participated in the placement programs out of which 152 students have been placed on campus and 20 students have been placed off campus.

2.3.8 Provide details of innovative teaching approaches/methods adopted by the faculty during the last four years? What are the efforts made by the institution to encourage the faculty to adopt new and innovative approaches and the impact of such innovative practices on students learning?

Following are the innovative teaching approaches/methods adopted by faculty during last four years:

Table 2.9
Innovative Teaching Approaches / Methods

Innovative Teaching Approaches/Methods Adopted	Impact on Student Learning
Story Playing, Debate, Group Discussion, Quiz, Role play	Opportunity to practice what they have learned, Provide concrete information
Brainstorming	Develop creative solutions to a problem
Group Projects, Presentations	Active Learning, Team Building
Face to Face Tutorials	Receive constant Feedback , Formative Assessment, Help students gain a deep understanding of the subject matter in their discipline
Group exercises	Slow learners are helped by the fast learners
Practical training	Helps in Hands-on practice
Workshops	Analyze problems or difficulties in order to figure out solutions, Participants often share their experiences and ideas.
Industry Institute Interaction	Experimental Component
Case Study	Analytical Thinking, Problem Solving

The teachers are encouraged to adopt ICT based teaching and attend various seminars, workshops, conferences to enhance their teaching methodology.

2.3.9 How are library resources used to augment the teaching-learning process?

College Library holds a unique position on campus. The Library has extended various services based on the information needs of the students and faculties right from reference service to assistance provided in accessing books from physical collections of the library and from e-resources subscribed by the college library.

Library Resources

Our Library serves as the knowledge centre for all the departments of the college. It provides the facility of two reading halls and an outer section hall for its readers. The students can consult personal books in the outer section hall. The functions of library are automated with integrated ERP software named TCSion . Book exhibitions in different disciplines are organized on the college campus to enable teachers select different titles to be purchased. These exhibitions are held every year and latest books by reputed publishers are arranged for the purpose. Reference collection is updated every year and a team of faculty members visit the International Book Fair in Delhi to buy latest books for the library.

The college library is stocked with a variety of books, journals and magazines for the benefit of the students. Every year library is updated with new stock of the books. Detail of new books and journals added in the last 4 years is given below:

Table 2.10
New Books and Journals added in the last 4 years

Library Holdings	2011-12	2012-13	2013-14	2014-15	2015-16
Text Books	62	23	68	232	387
Reference Books	207	62	109	41	60
Other Books	3,263	1,216	633	646	178
Newspapers	22	22	22	22	22
Journals/Periodicals	123	121	115	115	108
CDs and Videos	311	168	298	100	115
E books	51,746	23,254	22,000	97,000 (INFLIBNET) 1,34,000 (EBSCO)	1,35,000 (INFLIBNET) 1,38,000 (EBSCO)
E Journals	2,154	846	3,000	6,000+ (INFLIBNET)	6,000+ (INFLIBNET)

There is a digital library for access to E-Resources. There are special facilities for the visually and physically challenged persons:

- JAWS: Windows Screen Reading Software is installed on two computers of Digital library for the aid of visually challenged students.
- Library, Reading room and Digital Library facilities on ground floor help easy access for physically challenged persons.

OPAC

The Online Public Access Catalogue is available in the library automation software package through which faculties/students can search the online database of materials by the library catalog to locate books and other materials available in the library. The online search can be made through Author, Title, Publisher, Subject and keyword.

Digital Library

Keeping in view the changing trends, a digital library has been established to access electronic resources and internet services. Digital section of the library is equipped with 35 latest technology computers. For smooth and speedy internet access, it has been connected with the leased line connection.

Electronic Resource Management Package for e-resources:

The college has subscribed to various e-resource packages like INFLIBNET N-LIST programme under which access to 6000+ e-journals, 135000 e-books and EBSCO e-books is available.

Online Registration for e-resources

Students and faculty can register to electronic resources by sending their request to ggdsderesources@gmail.com and a login ID (user name) and password is send to them for accessing e-resources.

Library Website

A dynamic link of library is provided on the main website of the college i.e. www.ggdsd.ac.in where students and faculties can search OPAC for physical collections of the library and also link to the various e-resources subscribed as well as open access resources is provided. All these library resources and facilities help in supplementing teaching and learning process.

Readers' Club

The Readers' Club was started with the objective of providing a platform to all the students and faculties to visit library, read books and nourish their critical thinking abilities by holding book reading session.

2.3.10 Does the institution face any challenges in completing the curriculum within the planned time frame and calendar? If yes, elaborate on the challenges encountered and the institutional approaches to overcome these?

The institution instructs all the departments to submit term wise course content to the office and all the Head of departments see to it that the faculty follows the stipulated guidelines.

In case a faculty member proceeds on leave, the college appoints guest faculty so that the teaching does not suffer. As such the institution has never faced any challenge in completing the curriculum according to the planned time frame and the academic calendar.

2.3.11 How does the institute monitor and evaluate the quality of teaching learning?

The institution has in place the Advisory Council, Academic Development Cell, Academic Counseling cell and IQAC to monitor and evaluate the quality of teaching and learning. The institution has also appointed deans of various faculties to streamline the mechanism of teaching and learning. The institution monitors and evaluates the quality of teaching and learning through the following:

- The IQAC procures bi monthly reports from all the departments on course planning, student performance, other academic activities including workshops and seminars and extracurricular activities.
- The Head of the Institution, in the beginning of the academic session, holds departmental meetings and invites an activity calendar of the entire session from the Head of each department. He personally monitors and evaluates the implementation of the activity calendar of the each department.
- The head of the institution holds general staff meetings to motivate the faculty and to apprise them of any latest addition to the facilities for improving teaching -learning process.

- The institution has in place feedback forms to get feedback from students and parents. This feedback is analyzed and discussions are held to take positive steps to rectify the problems, if any.
- All the results are analyzed and discussed and inferences are drawn and conveyed to the teachers concerned. Based on this analysis the institution holds special classes for weak and brilliant students as per their needs.
- The institution has got installed CCTV cameras in the corridors of all teaching blocks to ensure proper academic environment and discipline (which is very important for improving the teaching-learning quality).
- Suggestion boxes have been placed at different places on the campus to get feedback/complaints and efforts are made to correct the problem (if any) .

2.4 Teacher Quality

2.4.1 Provide the following details and elaborate on the strategies adopted by the college in planning and management (recruitment and retention) of its human resource (qualified and competent teachers) to meet the changing requirements of the curriculum.

The College is extremely sensitive and alert towards maintaining highest standard of its human resource to meet the changing requirements of the curriculum. The details and strategies adopted by college in planning and management of the same are as follows:

Recruitment of Human Resource

All faculty positions are filled as per the norms laid down by Punjab University, Chandigarh and other government agencies like DHE, UGC etc. The details of recruitment process are as follows:

- At the beginning of the new academic session, the total workload chart is prepared and classes (accordingly) are assigned by HODs of various departments to the faculty. According to the requirements given by the Head of departments recruitment of the new staff is made by the college as per the norms laid down by the affiliating university.
- The college conducts Interviews of eligible candidates by inviting distinguished panel of renowned teachers from Punjab University as interviewers.
- In the interviews, the candidates with higher qualifications such as PhD, high APIs and having certifications in addition to the required qualification are given preference in order to ensure that only the candidates with updated knowledge and research orientations are recruited.
- The interviewers from Panjab University, college authorities and members of College Management reach unanimous decision regarding the appointments .

However, if any vacancy arises during the session, part-time teachers/visiting faculties are engaged as per rules.

Retention of Human Resource

The college makes sure that once the faculty is recruited it is retained and given all kinds of academic and mental support. The following strategies are adopted in this regard:

- The institution ensures that its faculty members are paid on time and are given salaries as per UGC norms for their services.
- The faculty is encouraged and guided by the college to avail duty leaves to upgrade their academic qualifications by pursuing higher studies.
- The college motivates its faculty members to attend orientation / refresher courses as well as seminars, conferences and other training programs to upgrade their teaching skills.
- The college provides financial support for research work and paper presentation at various National/International conferences.
- The college also provides avenues for faculty members to publish their research papers.
- The college annually facilitates its faculty members who complete their M.Phil. and Ph.D degree during their service by giving them awards and recognition.
- The college also provides facilities like sick leave, maternity leave, provident fund etc. as a way of keeping its faculty comfortable.
- The college makes sure that the atmosphere in the institution is congenial, tension free and leads to a sense of belonging among the faculty members.
- The college nominates faculty members to different committees to further develop their over-all competence.
- Senior faculty members are given an opportunity to participate in management and administration of college. Their opinions and suggestions are considered for policy making.

2.4.2 How does the institution cope with the growing demand/ scarcity of qualified senior faculty to teach new programmes / modern areas (emerging areas) of study being introduced (Biotechnology, IT, Bioinformatics etc.)? Provide details on the efforts made by the institution in this direction and the outcome during the last three years.

The college has qualified and experienced teachers, competent to teach new programs and modern emerging areas of study. They use all resources available to upgrade their teaching skills knowledge, they are encouraged to attend seminars and workshops being held outside campus and by attending refresher courses and orientation programs conducted by Punjab University so that they meet the changing academic needs. Experts in the emerging areas are invited for the courses where the existing faculty needs updation. These visiting faculty members serve dual purposes:

- To teach the students
- To train the faculty.

For Example: To update the IT faculty, advanced computers are purchased with the latest configuration and software. Simulator(s) are also offered by the college in order to encourage them for updation.

The following table provides a detailed account of all activities conducted in the college for the purpose of coping up with new demands.

Table 2.11
Seminar, Workshop, Lectures, FDP

Department of Biotechnology

S.No	Topic	Duration
1	National Seminar A Seminar on Global Outlook on Biotech & Pharma Patents was organized.	February 24, 2015
2	Five Day Workshop on “Next Generation Sequence Data Analysis and Structural Bioinformatics”	February 18-22, 2015.
3	Three Week Workshop on “Microbial Genome Sequencing and Bioinformatics	June 16-30, 2014
4	12-Day National Workshop on Fermentation Process “From Petri Plate to Bioreactor” under the aegis of DBT, Govt. of India, New Delhi. The students also visited NIPER and Punjab Biotechnology Incubator, Mohali.	December, 20-31 2014

Department of Biochemistry

S.No.	Topic	Number of Participants	Duration
1.	Workshop on Protein purification by different 2D Electrophoresis Technique	55	February 4-5, 2014
2.	Workshop on Application of RT PCR in Plant Sciences	27	February 13-14, 2014
3.	Workshop on Protein purification by different chromatographic methods	35	February 26, 2014
4.	Lecture on Microorganisms under Magnifying Glasses	35	February 10, 2014
5.	Lecture series on Metabolic Engineering and Proteomics Techniques	46	February 21, 2014

Department of Biotechnology

S.No.	Topic	Number of Participants	Duration
1.	Workshop on IPR Awareness “Patent: Empowering Biotech Industry”	146	November 15-16, 2013
2.	Lecture Series cum Demonstrative Workshop on Fermentation	35	November 10, 2013
3.	Lecture Series on Trends in Biotechnology Research	56	October 03-04, 2013

Department of Microbiology

S No.	Topic	Number of Participants	Duration
1.	4 th Workshop on Fermentation Process from Petri Plate To Bioreactor	22	January 06-15, 2014

Department of Bioinformatics

S No.	Topic	Number of Participants	Duration
1.	One Week Faculty Development Programme on Research Methodology in Bioinformatics	15	October 15-22, 2013
2.	BioRhythm – 2014 (Science Fest)	390	February 11 th , 2014
3.	Workshop on Using JAVA and PHP for Bioinformatics Data Analysis and Management	16	February 15-16, 2014

Department of Biochemistry

S No.	Topic	Number of Participants	Duration
1.	Workshop on Protein purification by different chromatographic methods	38	February 8 th , 2013
2.	Workshop on Application of Real Time PCR and RNA interference technology	37	February 21-22 nd , 2013
3.	Workshop on 2D gel electrophoresis	44	March 4 th , 2013

Department of Biotechnology

S No.	Topic	Number of Participants	Duration
1.	3 rd Workshop on Fermentation Process – From Petri Plate To Bioreactor	22	December 18-31, 2012
2.	Workshop on Role of E-Resources in Scientific Research	147	February 20-21, 2013

Department of Microbiology

S No.	Topic	Number of Participants	Duration
1.	3 rd Workshop on Fermentation Process – From Petri Plate To Bioreactor	22	December 18-31, 2012

Department of Bioinformatics

S No.	Topic	Number of Participants	Duration
1.	BioRhythm – 2013 (Science Fest)	417	February 2, 2013

Department of Information Technology

S No.	Topic	Duration
1	Android Software	September 12-13, 2013.

Lecture Series		
1	APPIN Technologies	November 12, 2013
2	“Computing trends”	November , 2014-15

2.4.3 Providing details on staff development programmes during the last four years elaborate on the strategies adopted by the institution in enhancing the teacher quality.

- a) Nomination to staff development programmes.
- b) Faculty Training programmes organized by the institution to empower and enable the use of various tools and technology for improved teaching-learning
 - Teaching learning methods/approaches
 - Handling new curriculum
 - Content/knowledge management
 - Selection, development and use of enrichment materials
 - Assessment
 - Cross cutting issues
 - Audio Visual Aids/multimedia
 - OER's
 - Teaching learning material development, selection and use
- c) Percentage of faculty
 - invited as resource persons in Workshops / Seminars / Conferences organized by external professional agencies
 - presented papers in Workshops / Seminars / Conferences conducted or recognized by professional agencies.

The college has made provisions for staff development programs and adopted many strategies regarding the same in the last four years to enhance the teaching quality of its faculty members. One of the recent programs started by the institution is:

The Instructional Skills Workshop – Instructional Skills Workshop (ISW) is offered within a small group setting and is designed to enhance the teaching effectiveness of both new and experienced educators. During the one week long workshop, participants design and conduct three **mini-lessons** and receive verbal, written and video feedback from the other participants who have been learners in the mini-lessons. Using an intensive experiential learning approach, participants are provided with information on the theory and practice of teaching adult learners, the selection and writing of useful learning objectives with accompanying lesson plans, techniques for eliciting learner participation, and suggestions for evaluation of learning. The workshop encourages reflection and examination of one's teaching practices with feedback focused on the learning process rather than on the specific content of the lesson. **Effective feedback** skills, practiced in the workshop, are useful for educators in the classroom and also as they conduct their regular institutional business. The ISW engenders participatory learning and the building of community that can transfer back into the classroom and the institution. Participation in a workshop creates an opportunity for new faculty to learn about the unique culture and value system of the organization and can also be a renewing and revitalizing activity for more seasoned members. Added benefits are a sense of collegiality, team building, **self-discovery**, and learning new approaches to working with others.

The following table gives details regarding various courses which the faculty members of the college have attended in the last five years:

a) Nomination to staff development programmes**Table 2.12**

Academic Staff Development Programme	2011-12	2012-13	2013-14	2014-15	2015-16
Refresher Course	04	18	06	01	06
Orientation Programme	09	03	04	03	06
Staff Training conducted by the University	-	-	-	-	-
FDP conducted by the college	-	08	06	11	03
HRD Programme	-	-	-	-	-
Workshops conducted by the University/Other Institutions	03	-	02	03	02
Workshops conducted by the College	04	02	01	05	06
Any Other (National Seminar Conducted by dept.)	-	-	01	04	02

The college adopts the following practices in order to enhance its teacher quality:

- **Teaching /learning method approaches:** The College ensures that senior members and staff with expertise in ICT technology impart new and valuable training methods in the existing approaches to other faculty members.
- **Handing new curriculum:** Whenever a change in the syllabus is initiated by University, the same is conveyed to the Principal of the college who thereafter brings it to the notice of the HODs. The Principal and HODs guide the teachers regarding the effective implementation of new syllabus. The new books are immediately added to the book bank of college library. The college invites experts on the latest curriculum, if necessary, to train the teachers. Teachers also participate in the training programmes organised by the university/teachers council etc.
- **Content/knowledge management:** The College makes sure that the staff is given complete access to various text books, reference books, journals required for effective teaching. The digital library of the college also provides internet facilities to faculty members for the purpose of research.
- **Selection, development and use of enrichment materials:** The faculty makes usage of all resources and materials such as smart classrooms, multimedia and digital labs to impart knowledge to the students.
- **Assessment:** Students are assessed on the basis of periodical tests, class participation and class attendance; all of which is done with automated software provided by TCS ion.
- **Audio Visual Aids/multimedia projectors:** Smart class rooms are available for various courses. There are well equipped labs for IT have projectors and other media devices. Time and again the faculty makes optimum use of IT, Multimedia, Smart Boards etc.
- **Teaching learning material development, selection and use:** The staff is encouraged to prepare teaching materials using power point presentation and to use latest information according to the updations made in the syllabus.

Percentage of faculty as resource persons in Workshops / Seminars / Conferences professional agencies

12-13	13-14	14-15	15-16
14 %	15 %	17.3 %	17.5 %

Percentage of faculty participated in external Workshops / Seminars / Conferences recognized by national/ international professional bodies

12-13	13-14	14-15	15-16
40 %	36.9 %	36.9 %	32 %

Percentage of faculty presented papers in Workshops / Seminars / Conferences conducted or recognized by professional agencies.

12-13	13-14	14-15	15-16
78.9%	63.4%	77.2%	86.5 %

2.4.4 What policies /Systems are in place to recharge teachers?(eg providing research grants, study leave, support for research and academic publications teaching experience in other national institutions and specialized programs industrial engagements etc.)

The college keeps on updating its policies for academic enhancement and promotion of research amongst the faculty. The college has following policies in place for recharging the teachers.

- The IQAC provides information to faculty regarding orientation and refresher programmes.
- It orients the faculty for research by apprising the faculty of the major and minor projects. The research committee of the college helps the faculty apply for these projects.
- The college ensures the maximum utilization of funds obtained under various research schemes
- The college supports and encourages the faculty to participate in National and International conferences and grants study leave as per the UGC norms.

2.4.5 Give the number of faculty who received awards/recognition at the state national and international level for excellence in teaching during last four years. Enunciate how the institutional culture and environment contributed to such performance/achievement of the faculty.

The institution believes in the excellence of the performance of its faculty and has a set of core values that helps in promoting academic excellence and commitment to the institution.

2.4.6 Has the institution introduced evaluation of teachers by the students and external Peers? If yes, how is the evaluation used for improving the quality of the teaching-learning process?

The institution has an indirect system of getting feedback on teachers. The heads of the departments hold informal meetings with different students to get to know about their assessment of the faculty teaching them. Parents are welcome to contact the authorities to provide their feedback. The college has a Parent Association in place and gets their feedback on various issues from time to time. The institution gets feedback from students on various parameters.

2.5 Evaluation Process and Reforms

2.5.1. How does the institution ensure that the stakeholders of the institution especially students and faculty are aware of the evaluation processes?

Institution strictly follows the evaluation processes set by Panjab University, Chandigarh. The institution prepares an academic calendar to follow the rule of 180 teaching days. The examination schedule and evaluation process are clearly mentioned in the college calendar. This ensures effective implementation of the evaluation reforms.

It is mandatory for every teacher of the institution to be well aware of the evaluation process. The Principal forms examination committee at the beginning of the academic year. A 'kick-off' meeting is held every year, which is presided over by the Principal and attended by all faculty members and respective HODs and nominated committee members. This meeting helps in understanding the evaluation process and thereby its implementation. The head of every department is entrusted with the responsibility of monitoring and submitting the progress report. The schedule regarding the details of the evaluation process containing the distribution of marks of various components like assignments, test, projects, theory paper, practical, internal assessment etc. is available on the university's website. The changes (if any) can also be noted in the beginning of the semester and accordingly communicated to all stakeholders.

Induction Programme

The institution organizes an induction program at the beginning of the year to make the students aware of evaluation processes. Teachers have the mandate to explicitly explain the same to the newly inducted students. In the introductory session the college subject teachers give a detailed briefing to the students about the syllabus and model of the question papers during their classes. The students are also briefed about the process of evaluation and the parameters applied for it. Information regarding the details of the evaluation process is available to the students on the university/college website. The answer books of the unit tests are shown to the students to provide them a legitimate idea of the evaluation process.

Regular Notices

Regular notices regarding the schedule of mid-term test and semester exam are displayed on the notice board. Every month, attendance of students is displayed on the notice board for easy access to the students. The students are kept informed about important notice through SMS.

SMS

In case of any deviation or alterations, the same is promptly informed to all the stakeholders through the notices, SMS, notice boards displays, college website and respective subject teachers.

Additionally, our institution in order to bring the transparency has invested in the centralized portal wherein all the students get a distinct login ID and password, through which they see their evaluation scores and all other related information.

2.5.2 What are the major evaluation reforms of the university that the institution has adopted and what are the reforms initiated by the institution on its own.

Some evaluation reforms have been introduced at the University level.

- The annual examination method is replaced by semester system for undergraduate and postgraduate classes.
- An external invigilation system has been introduced to check the menace of copying along with in-house invigilation.
- The college has initiated the system of Internal Assessment to evaluate and assess the students on the basis of their performance
- All records are sent to the university through online system.

The evaluation reforms initiated by the institution on their own are as follows:

- Formative and summative assessment approaches are adopted.
- The students are evaluated by class participation, group discussions and class tests, which not only improves their preparation but also ensures comprehension of various topics taught in the class.
- Debates, blackboard tests and classroom quiz are also held for some interesting and short topics, which make the evaluation challenging and interesting for students.
- Based on the pattern of questions papers set by the University for Final Exams practice question papers are given to students for homework and tests pattern of question papers given for home work and tests.
- The student centric learning through assignments, projects and practical sessions is impartially and fairly evaluated on the basis of performance.
- Special tests are conducted to offer a chance to students evaluate the performance of the students
- Internal assessment is awarded under different categories.
- If the student is not able to take house examination due to some medical problem or any other reason, then they are given the chance to appear in the conditional tests held in the first week of February each year.

2.5.3. How does the institution ensure effective implementation of the evaluation reforms of the university and those initiated by the institution on its own?

The institution ensures effective implementation of the evaluation reforms:

- The evaluation reforms of the university are followed in the best of the spirit. The Examination committee implements the instructions of the university.

- All records of answer sheets and award lists are maintained by the college.

2.5.4 Provide details on the formative and summative assessment approaches adopted to measure student achievement. Cite a few examples, which have positively impacted the system.

The institution practice both formative and summative assessment to measure student achievement. Both the assessment approaches are interrelated. Formative assessment is an assessment for learning taken at different intervals during a course. It is used as a provision of effective and timely feedback to encourage students to advance their learning. On the other hand, summative assessment is an assessment of learning at the end of a unit or semester. It is helpful to know the overall performance of the students. Parameters used by the institution for the formative and summative assessment are listed below:

Formative Assessment

- Assignments, Projects, Written and Practical tests, Class tests and Class room debates.
- Educational visits.
- Class interactions, Inter-class quiz, Group-Discussions, Organizing functions and participations in Workshops/Conferences/Seminars.
- Overall attendance records and general conduct during the session.
- Organizing interaction with business leaders and professional experts like corporate trainers, technologies experts' etc for the benefit of students to enhance their employability skills and self- confidence.
- Participation, attendance during events like paper-reading competitions, slogan-writing competitions, essay-writing competition, spot-writing competitions, book-reading workshops etc.
- Granting recognition to students during the prize-distribution function acts as a great motivating factor.
- SD Alumni Association (SDAAC) regularly participate in supporting different activities on the campus, be it the annual blood donation camp, career counseling seminars or extending patronage to different NGOs to promote social activities. Such interactions have positive impact on the system.
- Creativity, scientific temper, pioneering ideas, empathy and application of knowledge gained in class room etc. are part of formative assessment.

Summative Assessment

- Written Examination
- Practical Examination
- Comprehensive Viva Voce
- Project work
- Holding of final test before University Examination
- Parent-Teacher meetings
- Remedial Examination

Positive Impact:

- Students have become competent, regular and better informed to meet the challenges. Over the years students have won many prizes in academic and extra-curricular activities, for examples in sports, the institution won 245 gold medals, 171 silver medals and 214 bronze medals in Panjab University Inter College Championships, All India Inter University Championships and National Championships respectively. The

Institution also won the overall trophy of Panjab University Zonal and Youth and Heritage Festival 2014 and 2015.

- After attending the corporate trainers and professional experts' lectures/workshops, students get to know how to face interviews and find the right job, and many of them are motivated and join various organizations through the college placement cell.
- On the basis of assessments, respective departments identify slow learners. Remedial classes are arranged for students who do not perform satisfactorily.
- Students get effective guidance to prepare for their final examination.
- Tests and projects/assignments has help to improve regular learning habits among the students.

2.5.5 Detail on the significant improvement made in ensuring rigor and transparency in the internal assessment during the last four years and the weightage assigned for overall development of the students.

Rigor and transparency in the internal assessment

- The College maintains complete record of the internal assessment of all students. The assessment is given to students as per Panjab University norms.
- Students are informed about the norms and the break up for assessment, right in the beginning of the session. This is displayed on the notice board and communicated in the class by teachers as well.
- The assessment is based on class performance of students.
- Class performance of students is measured through snap tests, mid semester tests, class presentations, written assignments and class attendance.
- The answer sheets are shown to students after evaluation and doubts, if any, are cleared. The results for tests are communicated to parents of students through mail and even telephone. The marks can be seen by the student and their parent online.
- Attendance is communicated to college online by individual teacher. Attendance is centralized. The attendance for students is also displayed on the college notice board every month and students are also told the same in the class as well. It is also communicated to their parents via e-mail.

Weightage assigned for overall development of the students

- The college assigns due weightage to behavioral aspects, independent learning, communication skills etc of the students.
- Overall development of students is taken care of through various measures including seminars and conferences in the related fields, special lectures by Experts from various universities and industries, training programmes for students in communication skills and behavioral aspects.
- Educational tours to various industries are arranged for students regularly.
- Theme based cultural program is organised in association with the students for their overall development.
- Sports activities are regularly conducted through various competitions in which college students take part.
- Quiz competitions and other activities are organised department wise.
- Students take part in various Inter college competitions.
- Independent learning of students is enhanced through special classes for their respected subjects.
- Regular tutorials are held for students.

- The success for the above measures taken is evident from the excellent academic result and good placement of students.

These points are kept in mind while awarding internal assessment.

2.5.6 What are the graduates attributes specified by the college/ affiliating university? How the College does ensures the attainment of these by the students?

The college has been laying emphasis on accomplishment of some graduate attributes for the holistic development of students. It has specified its graduate attributes clearly:

- To groom its students into responsible citizens with high moral and human values.
- To make the students academically sound so that they successfully face the future challenges.
- To make its students employable.

We give importance to certain attributes like Critical Appreciation, Communication skills, team Work, Leadership Qualities and Motivational Skills. These attributes are developed through manifold activities organized in the institution. The students of all faculties are benefited to get employment in all walks of life. This is done on the basis of the attainment of knowledge gathered by the students during these integrated courses.

It ensures that the students attain the following attributes by the end of a programme:

- The students are equipped to face the challenging needs of the changing times and be effective and responsible citizens of the country.
- The students are given training to improve their communication skills, computer skills and life skills through add-on courses, soft skills training, etc
- The Students are exposed to innovative and technological advancements in teaching-learning.
- They are trained to be self reliant and enterprising through programmes conducted by the Career Guidance Cell, Entrepreneurship Development Club, etc.
- The spirit of intellectual enquiry is inculcated through research programmes, seminars, invited lectures and workshops.
- SPIRIT INDIA, a students' volunteer group of the College works under the NGO 'Avaahan'. The students are encouraged to engage in social and cultural issues and aspire to make meaningful and helpful contributions to local, national and global communities.
- They are encouraged to be socially responsible by organizing lectures on socially relevant topics and participating in outreach activities.
- Different programmes are organised by NCC, NSS to help students to attain these qualities .
- The students can publish their innovating thinking and creative writing through college magazine, wall magazine and project works etc.
- They also get to perform and showcase their skills by participating in intercollege youth Festivals.
- The seminars, group discussions organized by the departments facilitate the students in building leadership quality, enhancing communication skill and self-confidence.

2.5.7 What are the mechanisms for redressal of grievances with reference to evaluation both at the College and University level?

The college has well designed and structured mechanisms for redressal of grievances with reference to evaluation both at college and university level. The college has a students

Grievance Redressal cell to ensure transparency in admissions, preventing unfair practices and providing a mechanism for redressal of their grievances.

Mechanism at the college level

- The examination system of the college has been designed keeping in view the best available options of evaluation & certification along with their global acceptability. There is separate examination cell within the college. Any student with genuine grievances related to examination and evaluation process can approach Grievance Redressal cell.
- Internal assessment system has been introduced in all teaching departments of the college wherein every student is shown his/her evaluated answer sheet before the finalization of the result.

Mechanisms at University level

- At university level, there is full-fledged confidential section with Assistant Registrar, Deputy Registrar and Controller of Examination. The section maintains strict confidentiality. Paper setters, appointed by Board of studies, prepare set of question papers and full confidentiality and secrecy is ensured with reference to examination.
- The evaluation of the final examination (semester/annual) is done through table marking at the university level. Question-wise evaluation is done to maintain uniformity. Appointments of evaluators are recommended by concerned Board of Studies and are duly approved by the Vice-Chancellor. All the answer books are in OMR format with bar code as well as with Security features.

Online grievance-redressal system

Panjab University also launched the online examination grievance-monitoring system to redress the examination-related queries in a time-bound manner. The facility is available to all the students studying in the PU and its affiliated colleges. This helps in redressing the examination-related grievances of the students in time. Many university officials have been assigned the duty to handle the students' grievances related to the examination system. The students to just post their grievances through an email in a prescribed format following which it is punched in the application software and linked with the branch concerned. After the department concerned looks into the matter, a reply is sent to the applicant through an email with prescribed details. The concerned branch checks grievances on day-to-day basis and disposes them off within three to five working days. Also, the students can email their grievances to controller of examination (COE), Panjab University. It offers immediate and effective redressal to the problems reported by the students and work towards providing a safe and secure atmosphere for the holistic growth of the students.

2.6. Student Performance and Learning Outcomes

2.6.1 Does the college have clearly stated learning outcomes ? If 'yes', give details on how the students and staff are made aware of these?

Most of these desired outcomes have also been included in the motto and objectives of the institution. The students and staff are made aware of these during deliberations and debates at numerous platforms.

2.6.2 Enumerate on how the institution monitors and communicates the progress and performance of students through the duration of the course/programme? Provide an analysis of the students' results/achievements (Programme/course wise for last four years) and explain the differences if any and patterns of achievement across the programmes/courses offered.

The Institution has in place the yearly calendar in which the relevant tests and examinations are already mentioned. In addition to class tests, mid semester examinations are conducted and the performance of the students is displayed on the notice board of the respective departments.

Furthermore, TCS online system has been adopted by the college, to send regular emails regarding performance of the students in the class. In specific cases, parents are called and made aware about merits and performance of their wards. The parents and students have access to the online results and attendance of the students.

Analysis of the students' results and achievements programme wise shows

- An increment in students' uptake on yearly basis.
- The percentage cut off for intake of students in different courses.
- Number of first divisions and students obtaining distinctions.

The best indicator of this has been B.Sc. I (Medical and Non-medical) where total uptake has increased from 158 in 2011-12 to 431 in 2014-15. Similarly, students obtaining distinctions and first divisions have increased from 2 % to 5% and 25.9 % to 32.2%, respectively. This trend of students return to basic sciences is in line with other colleges of the region. However, the established infrastructure and highly qualified faculty has lured meritorious students to opt for basic sciences in our college. Similar trends are seen in other courses where number of units are more, whereas in self-financed courses the seats are fixed, still our college enjoys good share of the meritorious students in these courses as well. The table given below gives the detailed account of distinctions and meritorious positions bagged by the students of our college:

Table 2.13
B.Sc. (General)

Course	Session	Total Students	Distinction		Division I		Division II		Division III	
			No.	%	No.	%	No.	%	No.	%
B.Sc. I	2011-12	158	03	1.8	41	25.9	52	32.9	40	25.3
	2012-13	171	04	2.3	66	38.5	28	16.3	37	21.6
	2013-14	391	18	4.6	103	26.3	85	21.7	104	26.5
	2014-15	431	22	5.1	139	32.2	100	23.2	161	37.3
B.Sc. II	2011-12	102	03	2.9	35	34.3	21	20.5	18	17.6
	2012-13	141	03	2.1	53	37.5	61	43.2	16	11.3
	2013-14	137	04	2.9	59	43.0	41	29.9	24	17.5
	2014-15	298	17	5.7	113	37.9	96	32.2	40	13.4
B.Sc.III	2011-12	69	03	4.3	38	55	12	17.3	11	15.9
	2012-13	85	03	3.5	39	45.8	24	28.2	17	20.0

	2013-14	137	02	1.4	58	42.3	43	31.3	22	16.0
	2014-15	128	03	2.3	60	46.8	33	25.7	25	19.5

B.Sc. (Bioinformatics)

Course	Session	Total Students	Distinction		Division I		Division II		Division III	
			No.	%	No.	%	No.	%	No.	%
B.Sc. I	2011-12	13	-	-	05	38.4	-	-	02	15.3
	2012-13	21	04	19.0	07	33.3	01	4.7	03	14.2
	2013-14	22	01	4.5	09	40.9	-	-	05	22.7
	2014-15	17	-	-	05	29.4	01	5.8	09	52.9
B.Sc. II	2011-12	N.S.	-	-	-	-	-	-	-	-
	2012-13	07	-	-	07	100	-	-	-	-
	2013-14	14	06	42.8	07	50.0	-	-	01	7.1
	2014-15	15	03	20	12	80	-	-	-	-
B.Sc.III	2011-12	03	02	66.6	01	33.3	-	-	-	-
	2012-13	N.S.	-	-	-	-	-	-	-	-
	2013-14	07	-	-	07	100	-	-	-	-
	2014-15	14	06	42.8	08	57.1	-	-	-	-

N.S. – No Student

B.Sc. (Biotechnology)

Course	Session	Total Students	Distinction		Division I		Division II		Division III	
			No.	%	No.	%	No.	%	No.	%
B.Sc I	2011-12	17	01	5.8	08	47.0	03	17.6	03	17.6
	2012-13	23	-	-	07	30.4	-	-	14	60.8
	2013-14	27	02	7.4	20	74.0	-	-	05	18.5
	2014-15 SEM-I	29	03	10.3	17	58.6	-	-	04	13.7
	SEM II	24	09	37.5	14	58.3	-	-	01	4.1
B.Sc II	2011-12	21	04	19	16	76.1	-	-	01	4.7
	2012-13	15	03	20	09	60.0	-	-	02	13.3
	2013-14	21	05	23.8	11	52.3	-	-	03	14.2
	2014-15	25	07	28	17	68.0	01	4.0	-	-
B.Sc III	2011-12	17	09	52.9	07	41.1	-	-	-	-
	2012-13	21	04	19.0	17	80.9	-	-	-	-

	2013-14	14	07	50.0	05	35.7	-	-	01	7.1
	2014-15	20	06	30.0	13	65.0	-	-	-	

Bachelor of Commerce

Course	Session	Total Students	Distinction		Division I		Division II		Division III	
			No.	%	No.	%	No.	%	No	%
B.Com I	2011-12	291	86	29.0	173	59.4	13	4.4	19	6.5
	2012-13	281	36	12.8	192	68.3	38	13.5	10	3.5
	2013-14	299	67	22.4	259	86.6	17	5.6	15	5.0
	2014-15 SEM I	361	51	14.1	258	71.4	37	10.2	13	3.6
	SEM II	360	41	11.3	252	70.0	31	8.6	27	7.5
B.Com II	2011-12	294	47	15.9	186	63.2	22	7.4	23	7.4
	2012-13	288	70	24.3	191	66.3	12	4.1	06	2.0
	2013-14	278	56	20.1	247	88.8	23	8.2	06	2.1
	2014-15	291	79	27.1	177	60.8	17	5.8	14	4.8
B.Com III	2011-12	305	116	38	181	59.3	03	1.0	05	1.6
	2012-13	291	67	23	198	68.0	18	6.0	04	1.3
	2013-14	289	120	41.5	157	95.8	03	1.0	02	0.7
	2014-15	278	74	26.6	178	64.0	08	2.8	14	5.8

Bachelor of Business Administration

Course	Session	Total Students	Distinction		Division I		Division II		Division III	
			No.	%	No.	%	No.	%	No	%
BBA I	2011-12	138	34	24.6	76	55	05	3.6	19	13.7
	2012-13	130	14	10.7	82	63.0	05	3.8	13	10.0
	2013-14	142	09	6.3	87	61.2	09	6.3	15	10.5
	2014-15 SEM-I	145	10	6.8	46	31.7	24	16.5	63	43.4
	2014-15 SEM-II	143	11	7.6	62	43.3	32	22.3	33	20.9

BBA II	2011-12	130	16	12.3	104	80.0	02	1.5	04	3.0
	2012-13	131	33	25.1	90	68.7	04	3.0	01	0.7
	2013-14	129	23	17.8	94	72.8	05	3.8	07	5.4
	2014-15	135	05	3.7	98	72.5	06	4.4	13	9.6
BBA III	2011-12	120	29	24.1	85	70.8	04	3.3	-	-
	2012-13	129	24	18.6	101	78.2	01	0.77	-	-
	2013-14	128	39	30.4	82	64.0	02	1.5	02	1.5
	2014-15	129	26	20.1	90	69.7	04	3.1	4	3.1

Bachelor of Computer Applications

Course	Session	Total Students	Distinction		Division I		Division II		Division III	
			No.	%	No.	%	No.	%	No.	%
BCA I	2011-12	121	03	2.4	59	48.7	13	10.7	20	16.5
	2012-13	109	-	-	27	24.7	04	3.6	30	27.5
	2013-14	119	04	3.36	50	42.0	16	13.4	22	18.4
	2014-15 SEM-I	123	11	8.9	48	39.0	09	7.3	50	40.6
	2014-15 SEM-II	120	08	6.6	39	32.5	08	6.6	63	52.5
BCA II	2011-12	122	06	4.9	83	68.0	05	4.0	13	10.6
	2012-13	103	02	1.9	55	53.3	06	5.8	21	20.3
	2013-14	97	03	3.0	66	68.0	07	7.2	12	12.3
	2014-15	98	01	1.0	54	55.1	04	4.0	17	17.3
BCA III	2011-12	109	20	18.3	83	76.1	-		05	4.5
	2012-13	115	07	6.0	94	81.4	01	0.8	09	7.8
	2013-14	92	03	3.0	66	71.7	08	8.6	14	15.2
	2014-15	96	11	11.4	70	72.9	04	4.16	08	8.3

Bachelor of Arts

Course	Session	Total Students	Distinction		Division I		Division II		Division III	
			No.	%	No.	%	No.	%	No.	%
B.A. I	2011-12	397	07	1.7	97	24.4	117	29.4	99	17.0
	2012-13	480	06	1.2	106	22.0	131	27.2	105	21.8
	2013-14	708	16	2.2	170	24.0	165	23.3	149	21.0
	2014-15 SEM-I	669	16	2.3	160	23.9	169	25.2	286	42.7
	2014-15 SEM-II	621	11	1.7	183	29.0	163	26.2	242	38.9
B.A. II	2011-12	247	04	1.6	66	26.7	86	34.8	55	22.2
	2012-13	323	07	2.1	109	33.7	108	33.4	66	20.4
	2013-14	374	06	1.6	116	31.0	132	35.2	67	17.9

	2014-15	527	15	2.8	177	33.5	157	29.7	89	16.8
B.A. III	2011-12	198	06	3	76	38.3	65	32.8	36	18.1
	2012-13	227	04	1.7	75	33.0	96	42.2	40	17.6
	2013-14	308	07	2.2	119	38.6	108	35.0	45	14.6
	2014-15	331	08	2.4	122	36.8	138	41.6	35	10.5

Master of Economics

Course	Session	Total Students	Distinction		Division I		Division II		Division III	
			No.	%	No.	%	No.	%	No.	%
M.A. I ECO	2013-14 SEM1	55	-	-	09	16.9	03	5.4	37	67.2
	2013-14 SEMII	53	1	1.8	27	50.9	12	22.6	09	16.9
	2014-15 SEM-I	51	04	7.1	26	50.9	08	15.6	12	23.5
	2014-15 SEM-II	48	-	-	12	25.0	21	43.7	15	31.2
M.A.II ECO	2014-15 SEM-III	49	04	8.1	23	46.9	14	28.5	08	16.3
	2014-15 SEM-IV	50	-	-	22	44.0	11	22.0	17	34.0

Master of Commerce

Course	Session	Total Students	Distinction		Division I		Division II		Division III	
			No.	%	No.	%	No.	%	No.	%
M.Com I	2011-12 SEM-I	37	24	64.8	13	35.1	-	-	-	-
	SEM-II	37	17	45.9	19	51.3	-	-	01	2.7
	2012-13 SEM-I	46	-	-	41	89.1	02	4.3	03	6.5
	SEM-II	44	03	6.8	38	86.3	02	4.5	01	2.0
	2013-14 SEM-I	47	04	8.5	40	85.1	02	4.2	-	-
	SEM-II	46	05	10.8	40	86.9	01	2.1	-	-
	2014-15 SEM-I	50	15	30.0	34	68.0	01	2.0	-	-
	SEM-II	50	12	24.0	36	72.0	01	2.0	01	2.0
M.Com II	2011-12 SEM-III	33	14	42.4	19	57.5	-	-	-	-
	SEM-IV	33	13	39.3	20	60.6	-	-	-	-
	2012-13 SEM-III	36	11	30.5	25	69.4	-	-	-	-
	SEM-IV	36	16	44.4	20	55.5	-	-	-	-
	2013-14 SEM-III	44	04	9.0	39	88.6	01	2.2	-	-
	SEM-IV	44	05	11.3	39	88.6	-	-	-	-

	2014-15 SEM-III	45	03	6.6	39	86.6	01	2.2	02	4.4
	SEM-IV	45	06	13.3	35	77.7	01	2.2	03	6.6

M.Sc. (Applied Chemistry)

Course	Session	Total Students	Distinction		Division I		Division II		Division III	
			No.	%	No.	%	No.	%	No.	%
M.Sc I	2011-12 SEM-I	13	-	-	6	46.1	02	15.3	03	23.0
	SEM-II	13	-	-	6	46.1	03	23.0	-	-
	2012-13 SEM-I	11	1	9	3	27.2	03	27.2	04	36.3
	SEM-II	11	-	-	4	36.3	04	36.3	03	27.7
	2013-14 SEM-I	20	1	5	10	50.0	02	10.0	05	25.0
	SEM-II	20	1	5	13	65.0	03	15.0	02	10.0
	2014-15 SEM-I	23	06	26	12	52.1	03	13.0	02	8.6
	SEM-II	23	04	17.3	14	60.8	05	21.7	-	-
M.Sc II	2011-12 SEM-III	22	02	9.0	13	59.0	02	9.0	-	-
	SEM-IV	16	02	12.5	12	75.0	-	-	-	-
	2012-13 SEM-III	13	02	15.3	09	69.2	02	15.3	-	-
	SEM-IV	13	01	7.6	10	76.9	01	7.6	-	-
	2013-14 SEM-III	10	01	10	08	80.0	01	10.0	-	-
	SEM-IV	10	-	-	08	80.0	-	-	-	-
	2014-15 SEM-III	18	02	11.1	12	66.6	03	16.6	01	5.5
	SEM-IV	18	01	5.5	14	77.7	02	11.1	-	-

M.Sc. (Physics)

Course	Session	Total Students	Distinction		Division I		Division II		Division III	
			No.	%	No.	%	No.	%	No.	%
M.Sc I	2013-14	40	02	5.0	30	75	03	7.5	05	12.5
	SEM II	40	03	7.5	27	67.5	03	7.5	-	-
	2014-15	47	02	4.2	28	59.5	05	10.6	07	14.8
	SEM II	47	05	10.6	27	57.4	04	8.5	01	2.1
M.Sc II	2014-15 SEM III	37	03	8.1	25	67.5	04	10.8	02	5.4
	SEM IV	37	03	8.1	26	70.2	04	10.8	04	10.8

M.Sc. (Bioinformatics)

Course	Session	Total Students	Distinction		Division I		Division II		Division III	
			No.	%	No.	%	No.	%	No.	%
M.Sc. I	2011-12	15	03	20.0	11	73.3	-	-	01	6.6

	SEM-I									
	SEM-II	15	04	26.6	11	73.3	-	-	-	
	2012-13 SEM-I	03	01	33.3	02	66.6	-	-	-	-
	SEM-II	03	02	66.6	01	33.3	-	-	-	-
	2013-14 SEM-I	13	04	30.7	07	53.8	-	-	02	15.3
	SEM-II	13	04	30.7	07	53.8	-	-	02	15.3
	2014-15 SEM-I	10	02	20.0	03	30.0	01	10.0	04	40.0
	SEM-II	08	-	-	04	50.0	02	20.0	02	25.0
M.Sc II	2011-12 SEM-III	22	10	45.4	12	54.5	-	-	-	-
	SEM-IV	22	12	54.5	10	45.4	-	-	-	-
	2012-13 SEM-III	15	04	26.6	11	73.3	-	-	-	-
	SEM-IV	15	07	46.6	07	46.6	-	-	01	6.6
	2013-14 SEM-III	03	02	66.6	01	33.3	-	-	-	-
	SEM-IV	03	02	66.6	01	33.3	-	-	-	-
	2014-15 SEM-III	13	07	53.8	04	30.7	01	7.6	01	7.6
	SEM-IV	13	08	61.5	04	30.7	-	-	01	7.6

M.Sc. (Biotechnology)

Course	Session	Total Students	Distinction		Division I		Division II		Division III	
			No.	%	No.	%	No.	%	No.	%
M.Sc I	2011-12 SEM-I	26	12	46.1	14	53.8	-	-	-	-
	SEM-II	26	15	57.6	11	42.3	-	-	-	-
	2012-13 SEM-I	40	07	17.5	20	50.0	12	30.0	01	2.5
	SEM-II	40	09	22.5	25	62.5	04	10.0	02	5.0
	2013-14 SEM-I	21	07	33.3	13	61.9	01	4.76	01	4.7
	SEM-II	21	07	33.3	13	61.9	-	-	01	4.7
	2014-15 SEM-I	19	07	36.8	12	63.1	-	-	-	-
	SEM-II	19	07	36.8	12	63.1	-	-	-	-
M.Sc II	2011-12 SEM-III	26	13	50.0	13	50.0	-	-	-	-
	SEM-IV	26	19	73.0	07	26.9	-	-	-	-
	2012-13 SEM-III	26	16	61.5	10	38.4	-	-	-	-
	SEM-IV	26	22	84.6	04	15.3	-	-	-	-
	2013-14 SEM-III	38	11	28.9	23	89.4	02	5.2	01	2.6
	SEM-IV	38	14	36.8	22	57.8	01	2.6	01	2.6

	2014-15 SEM-III	21	09	42.8	11	52.3	-	-	01	4.7
	SEM-IV	21	10	47.6	10	47.6	-	-	01	4.7

M.Sc. (Information Technology)

Course	Session	Total Students	Distinction		Divisions I		Divisions II		Division III	
			No.	%	No.	%	No.	%	No.	%
M.Sc I	2011-12 SEM-I	31	09	29	15	48.3	-	-	06	19.3
	SEM-II	31	07	22.5	14	45.1	-	-	09	29.0
	2012-13 SEM-I	36	-	-	17	47.2	19	52.7	-	-
	SEM-II	33			06	18.1	-	-	16	48.4
	2013-14 SEM-I	44	04	9.0	16	36.3	-	-	22	50.0
	SEM-II	44	10	22.7	13	29.5	-		02	4.5
	2014-15 SEM-I	36	07	19.4	19	52.7	-	-	10	27.7
	SEM-II	36	14	38.8	12	33.3	-	-	02	5.5
M.Sc II	2011-12 SEM-III	33	13	39.3	04	12.1	-	-	08	24.2
	SEM-IV	33	23	69.6	03	9.0	-	-	-	-
	2012-13 SEM-III	31	08	25.8	13	41.9	-	-	04	12.9
	SEM-IV	31	15	48.3	06	19.3	-	-	-	-
	2013-14 SEM-III	33	-	-	11	33.3	-	-	08	24.2
	SEM-IV	33	-	-	22	66.6	-	-	-	
	2014-15 SEM-III	43	14	32.5	16	37.3	-	-	10	23.2
	SEM-IV	43	24	55.8	08	18.6	-	-	09	20.9

MBE

Course	Session	Total Students	Distinction		Divisions I		Divisions II		Division III	
			No.	%	No.	%	No.	%	No.	%
MBE I	2011-12 SEM-I	36	-	-	25	69.4	06	16.6	05	13.8
	SEM-II	36	-	-	27	75.0	08	22.2	01	2.7
	2012-13 SEM-I	40	-	-	29	72.5	08	20.0	04	10.0
	SEM-II	40	01	2.5	30	75.0	05	12.5	01	2.5
	2013-14 SEM-I	42	-	-	23	54.7	11	26.1	06	14.2
	SEM-II	41	-	-	30	73.1	07	17.0	04	9.7
	2014-15 SEM-I	42	01	2.3	25	59.5	04	9.5	11	26.1
	2014-15	35	01	2.8	31	88.5	03	8.5	-	-

	SEM-II									
MBEII	2011-12 SEM-III	33	01	3.0	28	84.8	04	12.1	-	
	SEM-IV	33	01	3.0	31	93.9	01	3.0	-	
	2012-13 SEM-III	35	-	-	27	77.1	08	22.8	-	
	SEM-IV	35	-	-	28	80.0	07	20.0	-	
	2013-14 SEM-III	39	01	2.5	28	71.7	04	10.2	06	15.3
	SEM-IV	39	-	-	31	79.4	08	20.5	-	
	2014-15 SEM-III	38	-	-	29	76.3	08	21.0	01	2.6
	SEM-IV	38	-	-	30	78.9	07	18.4	01	2.6

MEFB

Course	Session	Total Students	Distinction		Divisions I		Divisions II		Division III	
			No.	%	No.	%	No.	%	No.	%
MEFB I	2011-12 SEM-I	12	01	8.3	02	16.6	01	8.3	08	66.6
	SEM-II	11	01	9.0	02	18.1	-	-	08	72.7
	2012-13 SEM-I	07	-	-	03	42.8	01	14.3	03	42.8
	SEM-II	05	-	-	02	40.0	01	20.0	02	40.0
	2013-14 SEM-I	09	-	-	01	11.1	04	44.4	04	44.4
	SEM-II	07	-	-	02	28.5	01	14.2	04	57.1
	2014-15 SEM-I	29	02	6.8	11	37.9	06	20.6	10	34.4
MEFB II	SEM II	27	01	3.7	11	40.7	02	7.4	13	48.1
	2011-12 SEM-III	03	-	-	02	66.6	-	-	01	33.3
	SEM-IV	03	-	-	02	66.6	-	-	01	33.3
	2012-13 SEM-III	07	01	14.2	02	28.5	-	-	04	57.1
	SEM-IV	07	-	-	03	42.8	01	14.2	03	42.8
	2013-14 SEM-III	05	-	-	03	60.0	-	-	02	40.0
	SEM-IV	05	-	-	02	40.0	-	-	03	60.0
	2014-15 SEM-III	06	-	-	01	16.6	02	33.3	03	50.0
	SEM-IV	06	-	-	03	50	02	33.3	01	16.6

2.6.3 How are the teaching, learning and assessment strategies of the institution structured to facilitate the achievement of the intended learning outcomes?

The college has the college academic calendar which displays the effective teaching days, dates of tests and examinations. These are also included in the attendance register of every teacher, thereby, facilitating teacher level formulation of strategies for every class.

It is high on agenda of the college to bring in educators, researchers and renowned academicians along with entrepreneurs to give discourses on relevant subjects to complement the syllabus and to provide best infrastructure to facilitate teaching and learning.

2.6.4 What are the measures/initiatives taken up by the institution to enhance the social and economic relevance (student placements, entrepreneurship, innovation and research aptitude developed among students etc.) of the courses offered?

The placement cell of the college is actively involved in holding placement sessions. It also organizes numerous placement drives in which many companies of international repute like DELL, HEWITT, RANBAXY etc participate. These companies have selected a large number of students from commerce, information technology, medical, non-medical, economics, industrial chemistry, biotechnology and bioinformatics streams. In all, a significant number of students have been selected by different companies during 2011 to 2015.

In our college, alongside large number of students taking up positions in reputed companies, numerous students are pursuing higher studies with research as their goal. To cater to such needs of the students, different departments organize workshops, conferences, and invite leading researchers. Every such event is preceded by free interaction of students and invited researchers so that queries of budding scientists are addressed. These interactions have helped our students take up research projects in different research areas.

On similar lines, entrepreneurs are invited to the college from time to time to guide the students to start their own business and become entrepreneurs.

In the recently concluded chapter of DBT our college received grants over a period of five years from 2010 to 2015 for new equipments. Such an increase in the infrastructure is instrumental in providing all material help to the students of graduate and post graduate departments to take up minor research projects.

In 2013 and 2014, two departments i.e. Biotechnology and Chemistry, respectively have been allotted research centers by Panjab University and the research work has started in both the departments.

The college organizes functions, seminars and activities to empower students to work for the upliftment of society. For this, our units of NSS with its motto 'Not me but you' has done wonderful work in slum areas, adjoining Chandigarh. Such activities have educated students regarding their social commitments.

2.6.5. How does the institution collect and analyze data on student learning outcomes and use it for planning and overcoming barriers of learning?

The Institution has specified procedure to collect and analyze data on student learning outcome. In this context the institute adopts the following process:

Continuous Assessment (CA)

The college has its own mechanism for the continuous assessment process within the framework of the University norms.

- Continuous Assessment comprises of two centralized internal exams (conducted in the month of September and December), assignments, class test papers, viva- voce, project work and seminar presentations. These help understand the students' potential,

right from the beginning. Based on this analysis, the college extends appropriate support to slow learners and encourages the advanced learners to achieve more.

End Semester Examination Results

The results of the final examination are another data on learning outcomes, which reflects the effectiveness of the teaching learning process. This gives the students, an opportunity for self-evaluation and helps the students to overcome learning barriers.

Regular Attendance

As the class attendance and achievement of learning outcomes are correlated, the institution has a mechanism of collecting and analyzing attendance data, identifying those lacking sufficient attendance, communicating it to the students and parents and intervening as and when required.

Parents are provided with a password through which they can log in and retrieve information online regarding class attendance, marks obtained in each internal examination, semester results of the university examination and other academic performance of their wards on a real time basis.

Staff Meetings

Departmental meetings are also conducted to discuss the performance of the students after the house examination. The course feedback taken from students periodically are discussed and used for improving the course content and delivery process.

The college has taken the following steps to overcome barriers to quality learning:

- Teachers puts in extra efforts to arrange and organize special tests for the students who were unable to take the terminal examinations due to medical reasons/ clash in tournament dates of sports / participation in youth festival.
- Special Remedial Classes are conducted for weak students.
- Personalized guidance is given to the students not performing upto the mark in class tests and other exams.
- Web resources are used to enrich teaching.
- Discussions and group activities at various levels make the learning interactive.

2.6.6 How does the institution monitor and ensure the achievement of learning outcomes?

To monitor and ensure the achievement of learning outcomes the following measures are undertaken:

- Attendance records are maintained and students as well as parents are made aware of the shortage, if any. With the introduction of latest software, parents and students are given unique passwords whereby they can enter the college website and view details such as attendance, grades etc.
- Internal assessment is an integral part of monitoring. Due weightage is given to areas such as class participation, communication, discipline, attendance, self learning, cognitive ability etc.
- A detailed report of every student is assessed by the respective subject teacher after each house exam. Students are graded as advanced and slow learners according to their performance. Based upon their grading students are given special care and motivational/remedial classes.
- Meritorious students are awarded during the prize distribution function.
- Stress is laid on maximum written assignments to enhance learning.

- The Principal of the college constantly interacts with the Departmental heads and with individual teachers, to improve the quality of teaching process and increase the academic productivity.

2.6.7 Does the institution and individual teachers use assessment/evaluation outcomes as an indicator for evaluating student performance, achievement of learning objectives and planning? If 'yes' provide details on the process and cite a few examples. Any other relevant information regarding Teaching-learning and Evaluation which the college would like to include.

The institution and individual teachers use assessment /evaluation as an indicator for evaluating student performance, achievement of learning objectives and planning.

For evaluating students' performance, a large number of academic and co-curricular activities are planned and executed in the college throughout the year. Given below are few examples of the process and activities used for evaluating student performance:

- Assignments, Project works, Seminars etc. facilitate students evaluation performance.
- Performance in NCC, NSS, Sports and cultural activities also helps for evaluating students
- The faculty members are encouraged to conduct monthly tests, quizzes, etc. on regular basis to monitor the academic progress of each student.
- The college addresses the needs of both the slow and advanced learners in the form of remedial classes, awards and scholarships, respectively.
- The students showing slow performance are identified and special classes / remedial classes are arranged in various departments to improve their performance.
- Meritorious students are given prizes, Roll of Honour, Merit Certificates etc. during the annual prize distribution function.
- Attendance records are maintained and students as well as parents are made aware of the shortage or discrepancies.
- In addition, to the regular subject classes, the Departments organize special lectures/seminars/workshops by inviting experts from various fields to share their knowledge with the students.
- The students are also taken out for educational tours and industrial visits to provide them hands-on experience on their related subjects.
- Each faculty in the college acts as a true friend, philosopher and a guide for the students. Faculty members hold one to one interaction with the students showing low performance and unfavorable social physical and economic conditions. Such students are then mentally and materially motivated in every possible way to ensure improved performance.

CRITERION III: RESEARCH, CONSULTANCY AND EXTENSION**3.1 Promotion of Research****3.1.1 Does the Institution have recognized Research Centre/s of the affiliating University or any other Agency/organization?**

Yes, the college has two Research Centers recognized by Panjab University, Chandigarh

1. Research Center in Biotechnology**2. Research Center in Chemistry**

In addition to this, the following other agencies have recognized the research facilities available in the college and the faculty of various departments of this college are supervising Ph.D. Research work of students enrolled in their Universities.

Table 3.1

Sr No.	University	Department	Faculty Name
1.	Panjab University, Chandigarh	Physics	Dr. M L Verma Dr. Sanjeev Kumar Dr. Shikha Gupta Dr. Kriti Sharma
		Chemistry	Dr. Jyoti Kataria
		English	Dr. Manisha Gangahar
		Economics	Dr. Madhur Mohit
		Biotechnology	Dr. Navneet Batra
2.	Shoolini University of Biotechnology & Management Sciences, Solan	Physics	Dr. Sanjeev Kumar
3.	M M University, Mullana	Biotechnology	Dr. Navneet Batra
4.	Shri Jagdishprasad Jhabarmal Tibrewala University	Commerce	Dr. Kapil Dev
5.	Panjab Technical University Jalandhar	Physics	Dr. Sanjeev Kumar
		Commerce	Dr. Amit Mohidroo Dr. Yash Pal Dr. Kapil Dev
6.	Thiruballwar University Tamil Nadu	Commerce	Dr. Kapil Dev

3.1.2 Does the Institution have a research committee to monitor and address the issues of research? If so, what is its composition? Mention a few recommendations made by the committee for implementation and their impact

Yes, the college has a research committee to monitor the research activities. The committee reviews the research carried out by various faculty members regularly.

Table 3.2

	Designation
Convener	Principal
Members	Registrar
	Coordinator, IQAC
	Dean (Sciences & IT)
	Dean (Arts)
	Dean (Commerce)
	Head, Department of Economics
	Head, Department of English
	Head, Department of Biotechnology
	Head, Department of Chemistry
	Head, Department of Information Technology (w.e.f . 2015-16)

List of recommendations made by the committee:

- To circulate information about the availability of Grants from various funding agencies including UGC, DBT, ICSSR, ICAR etc.
- To encourage faculty for enrolment for Ph.D. programmes.
- To provide adjustment of time table for faculty pursuing research work.
- To guide faculty members for preparation of power point /poster presentation for various seminars/conferences/invited talks.
- To encourage UG and PG students for Research Programmes (independent short term projects).
- To develop research collaboration with other Institutes.
- To publish Journal/ Proceedings of Seminars/Conferences.
- To develop centralized Research Facility.
- To sanction duty leave for various research related activities.
- To prescribe more research journals and e-resources.

Impact of recommendations:

- The Commerce and Management Department has started a Biannual **Research Journal “ Vanijya Manthan”**with ISSN No. 2350-0719.
- Proceedings of Conference /Seminars have been published by various departments: **Proceeding** of National Seminar on “**Emerging Trends in Information Technology: Challenges and Strategies**” (2015) ISBN 978-93-82068-25-9. **Abstract booklet** of Seminar on “**Representation of the marginalized in contemporary literature**”.
- 28 faculty members completed their Ph.D. and 02 faculty members completed their M.Phil. degree during last five years while 21 faculty members presently enrolled for Ph.D programmes.
- Undergraduate students were given projects for short duration (4-6 week) in addition to their regular teaching programmes.

- 15 minor/major research projects were completed in last five years; 02 projects are ongoing projects proposals have been submitted for possible funding.

3.1.3 What are the measures taken by the Institution to facilitate smooth progress and implementation of research schemes/projects?

Autonomy to the Principal Investigator (PI)

The Principal Investigator is provided with autonomy in terms of purchase of material/consumables. They are allowed to recruit the research fellow and other staff as per guidelines of the funding agencies. They are provided with full control over the budget in terms of its use to achieve the project objectives. They are allowed to take all appropriate steps towards the effective supervision of the scientific and technological execution of the project and collaborate effectively to the overall completion of the project. They are authorized to deliver progress reports to the agency and publish their research work.

Timely availability or release of resources

The principal investigator is provided with sanctioned funds on receiving of sanction letter from funding agencies. Requisite help from the concerned department and accounts department is provided to him/her during the duration of the projects. The college provides additional funds (if required) to the investigator for the completion of projects and to carry forward their research work .

Adequate infrastructure and human resources

All the investigators are provided with laboratory facility round the clock. They are provided with computing facility individually/ in respective departments/in IT department as per their requirement. Inter-departmental facility is also provided to the researchers as per need basis.

Time off, reduced teaching load, special leave etc. to teachers

The college provides flexibility in time table to the faculty involved in research in terms of adjustment of classes during the preparation of time table. Duty leave is allowed to faculty members wishing to attend conferences/seminars/workshops. Travel and registration fee is provided to faculty presenting their research work in form of Oral/poster presentation. Many of our faculty members were provided with special leave to represent their research work abroad including Malaysia, USA, Turkey, Armenia and Poland.

Support in terms of technology and information needs

The PI is provided with all technical support for the completion of research work. All the computational facility is provided to the research team. There is provision of digital library where the researchers can access the various online sources available along with e-resources available in library including INFLIBMET-NLIST, Prowess Database and EBCSO sources. There is special provision of facility of statistical analysis (SPSS, METLAB etc) of various research data.

Timely auditing and submission of utilization certificate to the funding authorities

The college has constituted a special team which helps the investigators in preparing the audit reports and Utilization Certificate for timely submission to the funding agencies and to keep track of the release of further grants.

3.1.4. What are the efforts made by the institution in developing scientific temper and research culture and aptitude among students?

In order to achieve above mentioned objective, the institute makes several efforts as following.

- College has established **two researches centers in Biotechnology and Chemistry** department to promote research work in various aspects of these fields. The main aim of research centers is to inculcate research culture and to motivate students for research as per industry and society requirements.
- To make students abreast with latest developments in the field of science and technology, software development, social fronts and management, the individual departments organize a number of **special lectures** by subject experts from institutes of national repute (such as **IITs, IISER, IMTECH, NIPER CSIR-and CRIKC** (Chandigarh Region Innovative Knowledge Clusters), **IIMs, SEBI**, and various universities including foreign universities.
- **Various National and International seminars and workshops** are also organized to train the participants in different modern techniques in sciences. Workshops on **Soft Skill Development, SPSS, (dot).Net, APPIN Technologies and Android operating system** were organised to train IT and management students.
- Every year college arranges number of **educational and industrial tours/visits** where by students can observe translational or percolation of scientific research in field of industry.
- Most of the departments run various clubs with the objective to promote and create interests for subjects among the students: **Biovision** (Biotechnology), **Boson** (Physics), **Hartima-Environmental Society** (Botany), **Aesthesia** (Psychology) and **BBA club** (Commerce and Management). These clubs organise various annual fests namely **Biorhythm, Cosmid, PHOENIX, Aghaaz, PANACHE, Paradigm** and various language fests. On these occasions teams from host and different institutes participate in varied activities like scientific skits, discussion, declamation and quiz competitions and exhibit their innovative scientific entrepreneurship ideas.
- The undergraduate and postgraduate students are encouraged to participate in independent minor and major projects during their summer and winter vacations.
- College always encourages and provides **incentives** to the faculty members and students to present their research findings in national and international seminars organized by various institutions in regions.

3.1.5 Give details of the faculty involvement in active research (Guiding student research, leading Research Projects, engaged in individual/collaborative research activity etc.).

For developing scientific temper and research culture, the institution promotes the faculty to actively engage in various research activities.

Guiding Student Research

The faculties of different departments are involved in guiding and supervising M.Phil. and Ph.D. students under different universities. The Table below gives the details of faculty acting as research guides.

Table 3.3

Faculty	Department	Number of Student	Status	University
Dr. M.L. Verma	Physics	2	Completed	Panjab University, Chd.
		1	On going	Panjab University, Chd.
Dr.Sanjeev Kumar	Physics	4	On going	PTU, Jalandhar
		1	On going	Panjab University, Chd
		1	On going	Shoolini University of Biotechnology & Management Sciences, Solan
Dr. Shikha Gupta	Physics	1	On going	Panjab University, Chd
Dr.Navneet Batra	Biotechnology	1	On going	MM University, Mullana
		2	On going	Panjab University
Dr.Jyoti Kataria	Chemistry	1	On going	Panjab University, Chd
Dr. Madhur Mohit	Economics	4	On going	Panjab University, Chd
Dr.Kapil Dev	Commerce	4	On going	PTU, Jalandhar
		1	On going	JJTU, Rajasthan
		1	On going	Thiruballwar University, Tamilnadu
Dr.Yash Pal	Commerce	3	On going	PTU, Jalandhar
Dr. Manisha Gangahar	English	1	On going	Panjab University, Chd.
Dr. Kriti Sharma	Physics	1	On going	Panjab University, Chd.
Dr. Amit Mohindroo	Commerce	1	On going	PTU, Jalandhar

Faculty Leading Research Projects

The members of the faculty had taken up and/or completed a number of research projects funded by the UGC, DST, College and other agencies during the last four-year period. The Table below gives the detail.

Table 3.4**Major Research Projects****Department of Biotechnology**

Name of Faculty Member	Title of Project	Funding Agency	Grant Sanctioned	Year of Sanction	Year of Completion
Dr. Navneet Batra	Studies on the natural microbial	DST	10,14000/-	2007	2010

	communities of the hot water springs of Uttaranchal State				
Dr. Navneet Batra	Study the microbial diversity in hot water springs of Himachal	UGC	6,45,000/-	2008	2011
Dr. Ashima Pathak	Molecular action of zinc on glucose transporter in liver of diabetic rats	UGC	10,61,800/-	2008	2011
Dr. Neetu Thakur	Studies on genetic similarities and invitro conservation of tenospora	UGC	8,35,000/-	2009	2012

Department of Economics

Name of Faculty Member	Title of Project	Funding Agency	Grant Sanctioned	Year of Sanction	Year of Completion
Mr.Gagandeep Sharma	Growth and Performance of Co-operative Financing in the Agrarian Economies of Punjab and Haryana	UGC	7,33,822	2008	2011

Department of Zoology

Name of Faculty Member	Title of Project	Funding Agency	Grant Sanctioned	Year of Sanction	Year of Completion
Dr. Indu Mehta	To explore the potential of Endomycopsis capsularis for Industrial Applications’.	UGC	6,69,300/-	2008	2011

Department of Physics

Name of Faculty Member	Title of Project	Funding Agency	Grant Sanctioned	Year of Sanction	Year of Completion
Dr M.L Verma	Dielectric Studies of Chalcogenides for Electronics Devices	UGC	9,61,800/-	2010	2013

Minor Research Projects**Department of Biotechnology**

Name of Faculty Member	Title of Project	Funding Agency	Grant Sanctioned	Year of Sanction	Year of Completion
Dr. Samriti Dhawan	Isolation screening and optimization of B-Memnanase application	UGC	2,00,000/-	2008	2010
Dr. Samriti Dhawan	Screening sacharaclization of PHA producing bacteria from diverse habitats in Chandigarh	DST	70,000/-	2012	2013

Department of Bioinformatics

Name of Faculty Member	Title of Project	Funding Agency	Grant Sanctioned	Year of Sanction	Year of Completion
Mr. Varinder Kumar	Application of Bioinformatics in detecting Molecular Evolution and Phylogeny of Venomous species	UGC	80,000/-	2008	2010

Department of Information Technology

Name of Faculty Member	Title of Project	Funding Agency	Grant Sanctioned	Year of Sanction	Year of Completion
Dr. Virender Singh	Cyber space threat and security Mgt.	UGC	82,500/-	2008	2010
Ms. Monika Sethi	Automated Reuse of Component and Composition (Software engineering)	UGC	2,00,000	2011	2013

Department of Commerce

Name of Faculty Member	Title of Project	Funding Agency	Grant Sanctioned	Year of Sanction	Year of Completion
Dr. Diksha	“Nurturing Spiritual Capital In Management Education: An Empirical investigation”	UGC	1,50,000	2011	2013

Collaborative Research Project**Department of Physics**

Name of Faculty Member	Title of Project	Funding Agency	Grant Sanctioned	Year of Sanction
Dr M.L Verma <u>Collaborator</u> Dr. P.S Gill SGGS College	Characterization of Multi- component Semiconductors for electronic Devices	UGC	10,00,800/-	2014
Dr. Sanjeev	Investigation of uranium mobilization from subsurface sediments by effect of bicarbonate and other ions in groundwater of Malwa Region of Punjab state in India	UGC-DAE Consortium for Scientific Research, Kolkata Centre	16,00,000/-	2013

Ph.D Completed during last Five Years**Department of Commerce**

Name of the Teacher	Title	Name of the university	Year of Award of degree
Dr. Ajay Sharma	Impact of gats on higher education: a comparative study of Punjab and Himachal Pradesh	Himachal Pradesh University,	2015
Dr. Shallu Sharma	Growth & performance of small industries development bank of India	Punjabi University	2015
Dr. Nidhi Choudhary	A study of occupational stress of academic faculties in relation to their self -efficiency	Himachal Pradesh University	2015

Dr. Mani Parti Bharara	Effect of training on productivity of employees- a meta analysis	Kurukshetra University	2014
Dr. Sumeet Kaur	Credit risk management practices of commercial banks in india-an empirical study.	Panjab University	2013
Dr. Amit Mohindroo	The quality of credit rating by ICRA and Crisil	Panjab University	2011
Dr. Diksha	Corporate governance framework- a study of selected companies	Panjab University	2011

Department of Economics

Name of the Teacher	Title	Name of the university	Year of Award of degree
Dr. Gagandeep Sharma	X-Efficiency, Profitability and their Relationship with Customer Satisfaction : A Comparative Study of Selected Public and Private Sector Banks	Himachal Pradesh University	2016
Dr. Deepti Narang	Work-life balance-a study of select banks in Punjab & Chandigarh"	Panjab University	2015
Dr. Arti Jolly	Economic development, deprivation and distress: A study of variation across nations with special reference of India	Panjab University	2012
Dr. Madhur Mahajan	An analysis of the implications of WTO on pharmaceutical sector of India during the post reform period	Panjab University	2011

Department of Information Technology

Name of the Teacher	Title	Name of the university	Year of Award of degree
Dr. Virender Singh	Simulation based e-learning in software engineering	Himachal Pradesh University	2015
Dr. Rina	Challenges of implementation in e-commerce in data mining in India	Singhania University	2013

Department of English

Name of the Teacher	Title	Name of the university	Year of Award of degree
Dr. Richa Gaind	Ironic perspective in selected works of R.K Narayan	Shri Venkateshwara	2015
Dr. Liza Nanda	Interrogating nation: A critical study of Quarratulain Hyder 'River of fire Intizar Husain Basti and Tammima Anams' A Golden Age.	Panjab University	2013

Department of Physics

Name of the Teacher	Title	Name of the university	Year of Award of degree
Dr. Samandeep	Texture specific Fermion Mass matrices and so(10)	Panjab University	2015
Dr. Amit Goyal	Study of nonlinear evolution equations with variable coefficients for solitary wave solutions	Panjab University	2015

Department of Journalism

Name of the Teacher	Title	Name of the university	Year of Award of degree
Dr. Priya Khanna	A critical analysis of nutritional status of adolescents Vis-Vis changing media technologies.	Punjabi University	2015

Department of Chemistry

Name of the Teacher	Title	Name of the university	Year of Award of degree
Dr. Mehak Rohilla	"Studies towards the synthesis of ergolines"	Panjab University	2015
Dr. Navnita Kumar	Strategic Design of Amino Acid Based Ligands and Their Self-assembled Homochiral Coordination Architectures: Structural Diversity and Sensing Applications	IISER	2015
Dr. Shallu Dogra	Synthesis of Natural Products and Study of Some Organic Transformations Using Conventional/Unconventional Methodologies	Panjab University	2015

Department of Music

Name of the Teacher	Title	Name of the university	Year of Award of degree
Dr. Kulwinder Kaur	The contribution of Smt. Sharan Rani in Indian Classical Music	University of Delhi	2015

Department of Botany

Name of the Teacher	Title	Name of the university	Year of Award of degree
Dr. Priyanka	Investigating the role of Beta Pinene in alleviating the phytotoxic effects of hexavalent chromium	Panjab University	2015
Dr. Radha Chauhan	Physiological Studies on Some Wood Inhabiting Fungi	Panjab University	2015

Department of Mathematics

Name of the Teacher	Title	Name of the university	Year of Award of degree
Dr. Sargampreet	Steady and Unsteady Laminar flows of Viscous Incompressible Fluid	I.K Gujral Punjab Technical University	2015
Dr. Mahak Sharma	Central and Class-Preserving Automorphisms of Finite p-Groups	Thapar University	2015

Department of Sociology

Name of the Teacher	Title	Name of the university	Year of Award of degree
Dr. Rinku Kalia	A Study of Socio-Economic and Political Conditions of Women in slums in Chandigarh	Mewar University	2015

Department of Zoology

Name of the Teacher	Title	Name of the university	Year of Award of degree
Dr. Vineet Kumar	Ultrastructural Studies on Spleen of Normal, Plasmodium Berghei (NK65) Infected and Immunized BALB/C MICE	Panjab University	2015

M.Phil Completed During Last Five Years

Name of the Teacher	Department	Title	Name of the university	Year of Award of degree
Ms. Poorva Trikha	English	Photographs that impacted the world : a critical study of photojournalism as a tool for social change	Panjab University	2014
Ms. Niharika Sharma	Economics	Industrial growth in India since 2000:An Inter- State analysis	Punjabi University	2013

3.1.6 Give details of workshops/training programmes/sensitization programmes conducted/organized by the institution with focus on capacity building in terms of research and imbibing research culture among the staff and students.

Seminars, sensitizing programmes are organized by various Departments of the college with focus on capacity building in terms of research. Participation in the seminars help the staff and students to imbibe research culture .The details of the programmes are as below:

Table 3.5**Year 2015-16****Seminars**

S.No.	Particulars	Date
1	National Seminar on Demographic dividend and India's Economic Future	18 Nov 2015
2	Interdisciplinary National seminar on Violence Memory and Identity	4 Nov 2015

Workshops

S.No.	Particulars	Date
1	Workshop & Training Programme on Automation System in Education Sector	18-20 Feb 2016
2	Workshop on Leadership Excellence and Development	5-9 Oct 2015
3	Two days workshop on PHP/Wordpress	18-19 Sep 2015
4	International workshop on Microbial Geonomics	8-29 Jun 2015

Lectures

S.No.	Particulars	Date
1	Lecture on development of semiconductor and neural interface	18 Aug 2015
2	Lecture on Fermentation Technology	29 Sep 2015
3	Lecture series in association with TEDX	22 Aug 2015
4	Lecture on Greece Crisis	12 Sep 2015
5	Lecture on Radio Jockeying	14 Sep 2015
6	Lecture on relativistic Quantum Mechanics	18 Apr 2015
7	Lecture on Instrumentation in Biomedical Engineering	18 Aug 2015

Other Significant Activities

S.No.	Particulars	Date
1	IYF Mind cultural camp by South Korean NGO	15-17 Sep 2015
2	Computerised Accounting course under Pradhan Mantri Kaushal Vikas Yojana	22-28 Oct 2015

3	Four days Life Skill Testing Program	1-4 Sep 2015
4	One day workshop on Emotional Empowerment Technique.	19 Sep 2015

Year 2014-15**Seminars**

S.No.	Particulars	Date
1	Seminar on Global Outlook on Biotech & Pharma Patents	24 Feb 2015
2	National Seminar on Recent Advances in Materials Science.	21 Feb 2015
3	National Seminar on Representation of the Marginalized in Contemporary Literature	13 Feb 2015
4	National Seminar on "Socio-Economic Impact of Green Economy and Sustainable Development"	12 Feb 2015
5	Seminar on 'Current Trends in Chemistry'	15 Nov 2014
6	Seminar on Recent Advances in Plant Sciences: "Biodiversity: Concept, Status and Conservation."	13 Nov 2014

Workshops

S.No.	Particulars	Date
1	Workshop on Instrumentation Techniques in Chemistry	26 Mar 2015
2	Workshop on Computational Economics	17-23 Mar 2015
3	Workshop on Ornithology	26 Feb 2015
4	Workshop on Instrumentation	23 Feb 2015
5	Workshop on "Next Generation Sequence Data Analysis and Structural Bioinformatics"	18-22 Feb 2015
6	Two-Day Workshop on "Application of real Time PCR in Life Sciences".	6-8 Feb 2015
7	Workshop on Fermentation Process "From Petri Plate to Bioreactor"	20-31 Dec 2014
8	A Workshop on 'Biofertilizers and their Role in Sustainable Agriculture'	29 Nov 2014

Lectures

S.No.	Particulars	Date
1	Three-Day Lecture Series on "Enzyme Kinetics"	16 Feb 2015
2	Lecture on Computing Trends nuances of four basic pillars of network connection.	21 Nov 2014
3	Lecture on 'Delay-coupled Diode Lasers: Photonic test-bed to study and control of Coupled Oscillators Functionality'	18 Nov 2014
4	Lecture on the basic techniques involved in Material Science.	1 Aug 2014.
5	Lecture on Quantum Physics on basic concepts involved in Quantum Field Theory (QFT).	5 Apr 2014.

Other Significant Activities

S.No.	Particulars	Date
1	One week Instructional Skills Workshop (the international certification of skills training from the International Skill Workshop Network based in British Columbia, Canada.)	13 Jan 2015
2	XXIX Academic Conference of All-India Federation of University and College Teachers Organization (AIFUCTO)	14-16 Nov 2014.
3	Three-Day Model United Nations (MUN) International Conference.	6-8 Feb 2015.

4	Four Day Workshop on 'Soft Skills Development'	9-12 Nov 2014.

Year 2013-14**Seminars**

S.No.	Particulars	Date
1	National Seminar on the "Continuity of the Harappan Culture in the Indian Historical Context"	10 Mar 2014
2	Seminar on "Recent Advances in Material Science & Nanotechnology"	1 Feb 2014
3	National Seminar on "Emerging Trends in IT: Challenges and Strategies"	31 Jan 2014
4	Seminar on "Economic Environment For Business in India Reforms and Challenges"	28 Jan 2014
5	National Seminar on "Business Growth and Corporate Sustainability"	17 Jan 2014
6	Seminar on "Current Perspectives and Future Trends in Psychology"	13 Sep 2013
7	Seminar on "Emerging Trends In Plant Sciences"	8 Feb 2013

Workshops

S.No.	Particulars	Date
1	Workshop on Real Time PCR Technology in Clinics and Biological Science"	13 Feb 2014
2	Workshop on "Different Chromatographic Methods to Isolate Proteins"	4-6 Feb 2014
3	Workshop on "A New Perspective to Psychology: Understanding the Therapeutic & Intervention Strategies"	21-22 Jan 2014
4	Workshop on "Instrumentation Techniques in Chemistry"	17-18 Jan 2014
5	Workshop on "From Petri Plate to Bioreactor"	6-15 Jan 2014
6	Workshop on Techniques for Collection and Preservation of Herbarium "	28 Nov 2013
7	Workshop on "Android Software"	12-13 Sep 2013

Lectures

S.No.	Particulars	Date
1	Lecture on "Metabolic Engineering & Plant Proteomics"	21 Feb 2014
2	Lecture on "Bacteria"	10 Feb 2014
3	Lecture on Microarray Chip Technology	6 Feb 2014
4	Lecture on 'Random Numbers & Monte Carlo Simulation'	6 Feb 2014
5	Lecture on 'Decline in Number of House Sparrows: An Indicator Of Continuous Degradation Of Environment'	1 Feb 2014
6	Lecture on "Bioinformatics: Its Prospects and Applications",	22 Jan 2014
7	Lecture Series on "Network Security Covering: Secured Programming Cloud Computing And Penetration Testing"	12 Nov 2013
8	Lecture on 'Electronics'	25 Oct 2013
9	Lecture on 'Quantum Physics'	23 Oct 2013

10	Lecture Series on 'Fermentation Technology, Biosciences, Quorum Quenching Role of Iron in Anti cancer and Anti-Tuberculosis	1-4 Oct 2013
11	Lecture on "Ethics in Governance"	31 Aug 2013
12	Lecture on 'Physics: A Journey from Macro to the Microworld'	24 Aug 2013

Other Significant Activities

S.No.	Particulars	Date
1	5-day international level Faculty Development Programme	29 Apr 2014
2	Training Session on "JAVA and PHP for Bioinformatics Data Management and Analysis"	14-15 Feb 2014
3	FDP on Proteomics	4-6 Feb 2014
4	FDP on Research Methodology in Bioinformatics.	15-22 Oct. 2013

Year 2012-13

Seminars

S.No.	Particulars	Date
1	National Seminar on "Education Reforms: Challenges & Strategies "	9 Feb 2013
2	Seminar on 'Ethics in Media and its Social Responsibility'	2 Feb 2013
3	Seminar on 'Service Tax'	27 Nov 2012
4	Seminar on 'Perspective in Environmental Nanotechnology'	22 Nov 2012
5	Seminar on Digital Marketing	20 Sep 2012
6	Seminar By AIESEC Chandigarh "Life of a Graduate" & "Entrepreneurship"	29 Aug 2012
7	Seminar on "Revised Schedule VI, Value Added Tax and Service Tax"	6 Jul 2012

Workshops

S.No.	Particulars	Date
1	Workshop on "2D Gel Electrophoresis"	15 Mar 2013
2	Workshop on PHP	11-12 Mar 2013
3	Workshop on RT-PCR and RNA interference technology",	22-23 Feb 2013
4	Workshop on "Role of E resources in Scientific Research	20-21 Feb 2013
5	Workshop on "Different Chromatographic Methods to isolate proteins"	7-8 Feb 2013
6	Workshop on "Fermentation Technology : From Petri Plate to Bioreactor"	18-31 Dec 2012
7	Workshop on "Information Security"	18 Oct 2012

Lectures

S.No.	Particulars	Date
1	Lecture on 'Synthetic Bacteria'	09 Feb 2013
2	Lecture Series 'LHC Experiment, Nano science'	21 Feb 2013

Year 2011-12**Seminars**

S.No.	Particulars	Date
1	Seminar on Application of Science	14 Jan 2012
2	Seminar on “ Income Tax”	28 Nov 2011
3	Seminar on Innovative Branding	26 Aug2011

Workshops

S.No.	Particulars	Date
1	Workshop on Applications of SPSS in Bio-Medical Sciences	22 Feb 2012
2	Workshop on Protein Purification by Chromatography	13 Feb 2012
3	Workshop on “Bioinformatics: Applications and Challenges	21 Jan 2012
4	Workshop on Fermentation Process – From Petri Plate To Bioreactor	14-28 Dec 2011
5	Workshop on Consumer Research	17 Sep2011

3.1.7. Provide details of prioritized research areas and expertise available with institution.

The institute has a large number of faculty members with their expertise in the various fields of **modern and basic sciences and in commerce and management**. This can be endorsed with the help of their publications in the national and international journals, conferences and symposium. The faculty members are working in emerging areas of national significance or priority such as **Metagenomic, Genomics, Proteomics, Biofuel, Biotechnology and Green Chemistry**. In fact, these fields require contributions from various scientific disciplines like, biochemistry, bioinformatics, physics, chemistry and mathematics in order to understand a problem in holistic manner or systems level. The below mentioned table of expertise that, college is fully capable to provide the scientific solution to emerging problems pertaining to the **finance, market, society and industry**.

Prioritized Research Areas**Table 3.6**

S No.	Department of Biotechnology	
	Faculty member	Research interests and expertise
1.	Dr. Navneet Batra	Metagenomics & Industrial Enzymology
2.	Dr. Samriti Dhawan	Genetic Engineering & Enzymology
3.	Dr. Ashima Pathak	Radiation Biophysics
4.	Dr. Neetu Thakur	Plant Biotechnology and Molecular Biology
5.	Dr. Avneet Kaur Bajaj	Molecular Genetics
Department of Biochemistry		
6.	Dr. Akhlesh P Singh	Genomics and Proteomics
7.	Dr. Nidhi Mittal	Nutritional Biochemistry
8.	Dr. Shivani Ghai	Agriculture Microbiology
Department of Bioinformatics		
9.	Mr. Varinder Kumar	In silico Drug design
10.	Dr. Ruchi Sachdeva	Phylogenetic analysis
11.	Ms. Chandrajyoti	Phylogenetic analysis and Molecular modeling
12.	Mr. Sandeep Kumar	Drug design
Department of Physics		
13	Dr. P N. Panndit	Particle Physics
14	Dr. Manohar Lal	Condensed Physics
15	Dr. Neelu Mahajan	Particle Physics

16	Dr. Sanjeev Kumar	Nuclear Physics
17	Dr. Shikha Gupta	Condensed Matter Physics
18	Dr. Samandeep	Non-linear Dynamics
19	Dr. Kirti Sharma	Solid Physics
20.	Dr. Amit Goyal	Non-linear Dynamics
21.	Dr. Mumtaz Oswal	Solid Physics
Department of Chemistry		
22.	Dr. Sajeev Soni	Inorganic Chemistry
23.	Dr. Jasamrit Kaur	Organic Chemistry and Green Chemistry
24.	Dr. Sweta Wadhawan	Physical Chemistry
25.	Dr. Jyoti Kataria	Organometallic Chemistry
26.	Dr. Mamta Sharma	Synthetic organic Chemistry
27.	Dr. Shallu Dogra	Synthetic organic Chemistry
28.	Dr. Mehak Rohilla	Natural Products
Department of Botany		
29.	Dr. Aruna Saini	Plant Tissue Culture, Biosystematics
30.	Dr. Jasveen Dua	Plant Tissue Culture, Environment Toxicology
Department of Zoology		
31.	Dr. Sangeeta Pandit	Parasitology
32.	Dr. Indu Mehta	Immunology & Cell Biology
33.	Dr. Vineet Kumar	Parasitology
Department of Mathematics		
34.	Dr. Sargam Preet	Algebra
35.	Mr. GK Saini	Algebraic number theory
36.	Mr. Puneet Sharma	Algebra
Department of Microbiology		
37.	Dr. Neetu Sharma	Microbial Bioremediation
38.	Ms. Sonu Bhatia	Microbial diversity, IPR
Commerce and Management		
39.	Dr. Jagwant Singh	Banking & Finance
40.	Dr. Rajiv Behal	Banking & Finance
41.	Dr. Meru Sehgal	Merchant Banking & Costing
42.	Dr. Ajay Sharma	Taxation & Finance
43.	Dr. Monica Sachdeva	Finance & Marketing
44.	Dr. Yash Pal Taneja	Accounting & Finance
45.	Dr. Diksha Kakkar	Accounting & Corporate Governance
46.	Dr. Amit Mohindroo	Taxation
47.	Dr. Geeta Sharma	Finance & Marketing
48.	Dr. Meenu Gupta	Finance & Banking
49.	Dr. Rinkey Priya Bali	Finance
50.	Dr. Sumeet Kaur Sibal	Finance & Banking
51.	Dr. Kapil Dev	Accounting & Finance
Department of Information Technology		
52.	Dr. Virender Singh	Linux, Web Development
53.	Dr. Rina	Oracle, E-commerce, Data Mining
54.	Dr. Garima Srivastava	Machine Learning, Heuristic Optimization
Humanities & Social Sciences		
55.	Dr. Anil Parti	Operations Research

56.	Dr. Gagandeep Sharma	Mathematical Economics
57.	Dr. Arti	Development Economics
58.	Dr. Madhur	Indian Economy and International affairs
59.	Dr. Payal	Macro Economics
60.	Dr. Deepti Chawla	Business economics

3.1.8 Enumerate the efforts of the institution in attracting researchers of eminence to visit the campus and interact with teachers and students?

The college regularly invites eminent scientists and researchers from various reputed Institutes/University and Industry to upgrade the knowledge of faculty and students. The faculty and student seek their guidance and help for the proper implementation of their research objective.

Table 3.7
Resource Person (International)

Professor Ashok K Vijnh , Maître De Recherche Research Institute of Hydro Quebec, Quebec Montreal, Canada	Dr. Gurpreet Singh Department of Material Science, Bresecia University, Italy	Dr. Vinay K Chaudhary , Programme Director Artificial Intelligence Centre Stanford Research Institute, California, USA
Dr. Wendy Borton , Director, Teaching and Learning UFV, Canada	Mr. Raymonde Tickner Faculty of Access and Continuing Education, UFV, Canada	Prof. Suzan Beattie , Lawyer and Certified Coach, facilitator and Professional Speaker, UFV, Canada
Dr. Maureen Wideman , Director Teaching and Learning, UFV, Canada.	Dr. Ashwani Chauhan , Assoc. Prof. School of Environment Science, Florida A&M University	Dr. Ratna Ghosh Prof.& Dean Education McGill University Montreal Canada
Dr. Peter Geller Vice-Pro vost & Associate Vice President Academic UFV, Canada	Dr. Jacqueline Nolte Dean College of Arts UFV , Canada	Dr. Tracy Ryder Glass Dean Professional Studies UFV , Canada
Dr. Mark Evered Vice Chancellor UFV , Canada	Dr. Shyam Vyas Ex Professor, Weston Illinois University,USA	

Resource Person (National)

Prof. Arun Grover Vice Chancellor Panjab University, Chd.	Prof R.C Sobti Vice Chancellor, Central Univ., Lucknow	Dr. R.Kohli Vice Chancellor, Central University,Panjab
Dr. Rakesh Tuli , Executive Director , NABI, Mohali,	Prof. Satya Prakash Former Vice-Chancellor, Jiwaji University, Gwalior &Emeritus Fellow, Dept. of Physics, PU, Chandigarh	Dr. Pawan Kapoor Director CSIO, Chandigarh
Dr. V.P. Kamboj Chairman BCIL, New Delhi	Prof S.S Gill Former Director-General Centre for Research in Rural and Industrial Development, Chd.	Dr. Rajender Singh Chief Executive Officer, Centre of Innovative & Applied Bioprocessing

Dr. Kuldeep Singh Director School of Agriculture Biotechnology Punjab Agriculture University (PAU)	Dr. J.K. Arora Additional Director Panjab State Council for Science & Technology, Chandigarh	Dr. S S Marwaha C EO Punjab Biotech Incubator Mohali
Prof. Ashok K Ganguli Director Institute of Nano Science and Technology, Mohali	Dr. N. Sathyamurthy Director ISSER, Mohali, Panjab	Prof. M. K. Surappa, Director, IIT Ropar, Panjab
Dr. A. Bhachhawat Dean R&D, IISER Mohali	Dr. V.C. Kalia Sr. Principal Scientist IGIB, New Delhi	Dr. U.C. Banerjee Head, Pharmaceutical Technology NIPER, Mohali
Dr. B. S. Bhoop Dean Faculty of Sciences Panjab University, Chandigarh	Prof. T.C. Bhalla Coordinator Department of Biotechnology, H.P. University, Shimla	Dr. R.K. Saxena Chief Coordinator, Technology Based Incubator D.U South Campus
Dr. V.K. Joshi Head, Dept. of Post Harvest Technology Dr. Y.S. Parmar University of Horticulture, Solan	Prof Raj S Dhankar, Dean, Faculty of Management Studies, Delhi University	Prof. Ashwani Aggarwal, Former Dean and Chairman of the Department of Ancient Indian History, Culture and Archaeology, PU
Dr. Subhash Sharma, Director, Academic Staff College, GNDU, Amritsar	Prof. Sudhanshu Bhushan Dept of Higher and Professional Education, National University of Education Planning and Administration.	Dr. Naidu Subbarao , School of Computational & Integrative Studies, JNU, New Delhi.
Dr. G.P.S. Raghava Head Bioinformatics Centre IMTECH Chandigarh	Dr. Debendra K. Sahoo Chief Scientist BERPDC IMTECH Chandigarh	Dr. Sajeew Puri Coordinator, Centre for Stem Cell & Tissue Engineering PU Chandigarh
Dr. Sunil K. Hota Head, Experimental Biology Division, DIHAR	Dr. Jasbir Singh Chairman, Dept. of Biochemistry Kurukshetra University	Prof. Harish Karnick, Department of Computer Science and Engineering, IIT Kanpur
Dr. Suresh Sharma Coordinator, Dept. of System Biology & Bioinformatics, PU	Dr. Rupinder Tewari Head, Dept of Microbial Biotechnology, Panjab University, Chandigarh	Dr. C.R. Suri Chief Scientist Institute of Microbial Technology (IMTECH)
Dr. G. S. Prasad Incharge, MTCC, IMTECH, Chandigarh	Dr. Neena Caplash Head Dept. of Biotechnology Panjab University.	Dr. Shashi Rawat Senior Scientist & Incharge AKMU, Central Potato Research Institute (CPRI)

Dr. G.S. Kochar Professor Department of Microbiology PAU, Ludhiana	Dr. Duni Chand Chairperson ,Dept. of Biotechnology HP University, Shimla	Dr. Rekha Chaturvedi Formerly Scientist G & Head IPR Cell & PME Div., CSIR-IGIB New Delhi
Mr. ML Sharma Ex-Incharge, Electron Microscopy Facility PU, Chandigarh	Dr. Ashish Ganguly Senior Scientist IMTECH, Chandigarh	Dr. S.S.Bari Professor Dept. of Chemistry PU, Chandigarh
Dr. G.S Batra School of Management Studies, Punjabi University, Patiala	Dr. Hardeep Singh Professor Dept of Computer Science & Engg. GNDU,Amritsar	Prof. Prince Sharma Chairperson Dept. of Microbiology Panjab University, Chandigarh
Mr. Rahul Taneja Scientist, Haryana State Council for Science and Technology	Dr. Rakesh Singh Dhanda Department of Translational and Regenerative Medicine, PGIMER, Chandigarh	Prof. M S Reddy Head , Department of Biotechnology Thapar University Patiala
Dr. Manoj Kumar Head CSE, Ambedkar Institute of Advanced Communication Technologies and Research, Delhi	Dr. Manu Sood Department of Computer Science and Applications, HP University, Shimla	Dr. Dapinder Kaur Bakshi PSO (Biotech.), Punjab State Council for Science & Technology
Dr. Shweta Kapoor Dept of Forensic Sciences & Criminology, Panjab University	Mr. Garry Bedi Sr. Scientist, Intellectual Property Management, IMTECH, Chandigarh	Dr. Sharanjeet Singh Prof and Head, Pharmaceutical Analysis, NIPER, Mohali

3.1.9 What percentage of the faculty has utilized Sabbatical Leave for research activities? How has the provision contributed to improve the quality of research and imbibe research culture on the campus?

Sabbatical leave has not been taken by the faculty of the college. There is provision for Study Leave for periods ranging from 12 months to 2 years.

3.1.10. Provide details of initiatives taken up by the institution in creating awareness/advocating /transfer of relative finding of research of the institution and elsewhere to students and community (lab to land)

- The college uses various methods of information percolation such as news publication in national newspapers, college website, notice boards and wall papers etc.
- The institution has developed its own message systems (**TCS software**), it can send mass messages related to various activities to students and their parents.
- Time to time scientific events and particularly faculty research papers published in National and International journals are chronologically listed in college publications like **Campus Reporter, Year book, Annual Report, Tyagmurti and In-House Newsletter 'EXPRESSIONS'**

- The college takes initiative in organizing **National and International Seminar**, symposium and workshops. The college invites the faculty and students from far flung areas of various parts of the country.

3.2 Resource Mobilization for Research

3.2.1 What percentage of the total budget is earmarked for research? Give details of major heads of expenditure, financial allocation and actual utilization.

Four percent of total budget marked for research activity is utilized for providing consumables, infrastructural facilities and other research related activities like workshops, seminars, reimbursement of registration fees, payment of the travelling expenses of resource persons etc. This is in addition to the grants including travel grant received by the faculty from different funding agencies like UGC, DST etc.

3.2.2 Is there a provision in the institution to provide seed money to the faculty for research? If so, specify the amount disbursed and the percentage of the faculty that has availed the facility in the last four years?

College assists the faculty by providing necessary facilities to initiate research activities on need basis. The teachers are reimbursed the registration fee and travel expenses for attending conferences, workshops and seminars. The college provides financial support for conferences and seminars, including those concerned with research.

3.2.3 What are the financial provisions made available to support student research projects by institution?

The students have been provided financial support as per financial grants received by the institution from various funding agencies from 2011-2015. Besides this, student's registration fee for making presentations at national conferences/symposia is borne by the college. The Management advances financial assistance for field trips for students connected with their projects. The funds sanctioned by UGC are also utilized for the same.

3.2.4 How does the various departments/units/staff of the institute interact in undertaking inter disciplinary research? Cite examples of successful endeavors and challenges faced in organizing interdisciplinary research.

Inter Departmental Collaboration

Faculty members from different departments have collaborated and successfully completed major and minor projects. Many research projects which are in progress and those already completed during the last four years have interdisciplinary objectives.

For example:

The project on synthesis and evaluation of antimicrobial properties of chemically and biologically synthesized nano-particles was carried out in collaboration with Department of Biotechnology, Physics, Chemistry and Botany. Silver nano-particles were prepared from *Syzygium cumini* and their antimicrobial property was studied against *Clostridium tetani*.

Inter-Departmental Student Orientation Programme was started for the students of the allied departments where students from basic sciences were given the training on applied sciences and vis-a-versa.

Following is a brief list of activities carried out by different departments:

The Department of Biotechnology conducted orientation of all the basic instruments available in the laboratory such as:

- Use of spectrophotometer, Conductivity meter & pH meter
- Handling and working on Centrifuge & fermenter.
- Tissue culture & Molecular biology techniques etc.

The Department of Bioinformatics conducted orientation of students from non-computation background and were given the brief training on:

- Using Excel & Power Points.
- Making Graphs.
- Basic bioinformatics techniques of literature and sequence data searching.
- Drawing Chemical Structures using CHEMSKETCH.
- Exposure to 3D Macromolecular Visualization Tools etc.

The Department of Microbiology conducted orientation of basic microbiology techniques like:

- Media preparation.
- Serial Dilution.
- Sterilization Techniques.
- Isolation of Microbes using Spread Plate, Pour Plate and Streaking.
- Staining Techniques i.e. simple, gram, differential and endospore.
- Study of Growth of Microbes in liquid and Solid media.

The Department of Biochemistry conducted orientation in basic Biochemistry:

- Preparation of Solution (Molar, Normal and PPM solutions).
- Use of spectrophotometer.
- Estimation of Protein and Sugar Concentration.
- Centrifugation Techniques for Isolation of Biomolecules.
- Use of pH meter.

Most courses in the college have a strong research orientation, with research projects forming an integral part of the training of undergraduate students. Research projects undertaken as part of the curriculum are also effectively executed in the college. A small group of two to three students are assigned to a project –in charge/mentor for ensuring closer supervision and effective delivery. The final-year students enrolled in Bachelor and Master's courses have to complete research project as a part of their course curriculum, which includes use of extensive statistical packages and computational techniques, for which they seek help from faculty of Department of Mathematics, Statistics and IT.

3.2.5 How does the institution ensure optimal use of various equipment and research facilities of the institution by its staff and students?

The college has established a 'Central Instrumentation Facility, where equipment and instruments are made available centrally. Every department has prepared a schedule regarding availability of the instruments. Apart from this, all the laboratories/computer centre/equipment can be used by any student or staff for research purpose. Further, to ensure the optimal use of various equipments and research facilities following steps are taken:

- All the departments are provided with computers and internet facility. To access vast online resources, localized Wi-Fi facility is provided in Departments, for the use of the faculty and students.

- Students are encouraged to pursue their studies through research papers / articles. Journals, magazines and books of national and international repute are available in the college library for the use of students. The college has also INFLIBNET facility to get information on recent development from all over the world. Recently the college has purchased 1, 38,000 e books from EBSCO – A US based e-book provider.
- The working hours of library are extended so as to ensure the maximum utilization of the resources. Stipulation of the date of return of library books is strictly adhered to, so as to ensure maximum circulation of the books. The College offers many sophisticated equipments through the fund sanctioned by various funding agencies, and expects to attract more researchers in Science Departments. Department of Biotechnology and Chemistry has set up a separate Research lab to promote research among teachers and students.

3.2.6 Has the institution received any special grants or finances from the industry or other beneficiary agency for developing research facility? If 'yes' give details.

The college is not drawing any direct financial benefit from the industry or other beneficiary agencies but these agencies offer their services and expertise in the form of training and guiding research projects. Otherwise the college regularly receives funding under various schemes from government funding agencies like UGC, DBT, DST. The fund offered under the various schemes are utilized for the development of research facility as per guidelines of the scheme. Besides this, with a focus on student employability, the college actively seeks to engage government agencies, NGOs, industries and other corporations.

3.2.7 Enumerate the support provided to the faculty in securing research funds from various funding agencies, industry and other organizations. Provide details of ongoing and completed projects and grants received during the last four years.

Information is disseminated about funds available from various funding agencies through staff notices. Necessary support is provided to the teachers to prepare the proposal and submit it. Follow-up meetings are also held to ensure that teachers submit proposals. The IQAC also helps in purchase of equipment through research funding after the sanction. Details of ongoing and completed projects and grants received during the past five years are given below.

Table 3.8

Details of grants received and projects completed by the faculty during the last four years:

Major Research Projects

Department of Biotechnology

Name of Faculty Member	Title of Project	Funding Agency	Grant Sanctioned	Year of Sanction	Year of Completion
Dr. Navneet Batra	Studies on the natural microbial communities of the hot water springs of Uttarakhand State	DST	10,14,000/-	2007	2010
Dr. Navneet Batra	Study the microbial diversity in hot water springs of Himachal	UGC	6,45,000/-	2008	2011

Dr. Ashima Pathak	Molecular action of zinc on glucose transporter in liver of diabetic rats	UGC	10,61,800/-	2008	2011
Dr. Neetu Thakur	Studies on genetic similarities and invitro conservation of tenospora	UGC	8,35,000/-	2009	2012

Department of Economics

Name of Faculty Member	Title of Project	Funding Agency	Grant Sanctioned	Year of Sanction	Year of Completion
Dr.Gagandeep Sharma	Growth and Performance of Co-operative Financing in the Agrarian Economies of Punjab and Haryana	UGC	7,33,822	2008	2011

Department of Zoology

Name of Faculty Member	Title of Project	Funding Agency	Grant Sanctioned	Year of Sanction	Year of Completion
Dr. Indu Mehta	To explore the potential of Endomycopsis capsularis for Industrial Applications’.	UGC	6,69,300/-	2008	2011

Department of Physics

Name of Faculty Member	Title of Project	Funding Agency	Grant Sanctioned	Year of Sanction	Year of Completion
Dr M.L Verma	Dielectric Studies of Chalcogenides for Electronics Devices	UGC	9,61,800/-	2010	2013

Minor Research Projects**Department of Biotechnology**

Name of Faculty Member	Title of Project	Funding Agency	Grant Sanctioned	Year of Sanction	Year of Completion
Dr. Samriti Dhawan	Isolation screening and optimization of B-Memnanase application	UGC	2,00,000/-	2008	2010

Dr. Samriti Dhawan	Screening sacharaclization of PHA producing bacteria from diverse habitats in chandigarh	DST	70,000/-	2012	2013

Department of Bioinformatics

Name of Faculty Member	Title of Project	Funding Agency	Grant Sanctioned	Year of Sanction	Year of Completion
Mr. Varinder Kumar	Application of Bioinformatics in detecting Molecular Evolution and Phylogeny of Venomous species	UGC	80,000/-	2008	2010

Department of Information Technology

Name of Faculty Member	Title of Project	Funding Agency	Grant Sanctioned	Year of Sanction	Year of Completion
Dr. Virender Singh	Cyber space threat and security Management	UGC	82,500/-	2008	2010
Ms. Monika Sethi	Automated Reuse of Component and Composition (S/W engineering)	UGC	2,00,000	2011	2013

Department of Commerce and Management

Name of Faculty Member	Title of Project	Funding Agency	Grant Sanctioned	Year of Sanction	Year of Completion
Dr. Diksha	Nurturing Spiritual Capital In Management Education: An Empirical investigation	UGC	1,50,000	2011	2013

Collaborative Research Project**Department of Physics**

Name of Faculty Member	Title of Project	Funding Agency	Grant Sanctioned	Year of Sanction
Dr. M.L. Verma <u>Collaborator</u> Dr. P.S Gill SGGS College Chd	Characterization of Multi-component Semiconductors for electronic Devices	UGC	10,00,800/-	2014
Dr. Sanjeev Kumar	Investigation of uranium mobilization from subsurface sediments by effect of bicarbonate and other ions in groundwater of Malwa Region of Punjab state, India	UGC-DAE Consortium for Scientific Research, Kolkata, Centre	16,00,000/-	2013

3.3 Research Facilities**3.3.1 What are the research facilities available to the students and research scholars within the campus?**

With the objective to promote healthy research, the college has set up following facilities for the students:

- Well-equipped teaching and research laboratories
- Subscription of national and international e-books and e-journals (EBESCO academic collection and INFLIBNET N-LIST programme)
- Central Instrumentation Facility
- Well developed and fully equipped ultra modern IT Department.
- Digital library with 52 computers and unlimited Internet access for students.
- Statistical Package for Social Sciences (SPSS) for research data analysis.

Special equipment & software:

Equipment: RT-PCR, FT-IR, 2D Gel Electrophoresis, Gel documentation system, Fluorescent microscopes, Gas Chromatography, PCR, HPLC, Gel Electrophoresis (Horizontal and Vertical), Growth chambers, Ultra Sonic Bath, Safety Cabinet, Green View Electrophoresis System, Acta Prime system, Ice Flaking machine, Tissue Culture Rack, deep freezer, GM Counter complete.

Software: DNASTar (DNA and protein sequence and structure analysis tool), Discovery studio (drug designing), Gaussian9W and Gauss view and Hyperchem 8.0(molecular modelling), Mini-tab etc.

3.3.2 What are the institutional strategies for planning, upgrading and creating infrastructural facilities to meet the needs of researchers especially in the new and emerging areas of research?

Strong research base gives students access to wide range of cutting edge expertise and modern scientific research facilities. Following are the Institutional strategies to meet the need of researchers:

- **Constitution of Research Committee:** The College has formed a research committee to deal with all the core problems related to research and development. It identifies important areas of emerging scientific opportunity and assist in the acceleration of research investments in these areas.
- **Application for grants:** The College applies for various research grants available from various agencies like UGC, New Delhi, DST Chandigarh and New Delhi and HSCST, Chandigarh, and DBT for improvement of Human resource development, research facilities and infrastructure.
- **Upgradation and addition of infrastructure:** Regular upgradation and addition of new equipments and lab infrastructure is done from the college resources as and when required.
- **Links with professional bodies:** The college maintains close links with professional bodies in order to provide programmes that are tailored to the need of the employers along with satisfying the academic and vocational needs of highly qualified students.

3.3.3 Has the institution received any special grants or finances from the industry or other beneficiary agency for developing research facilities?? If yes, what are the instruments/facilities created during the last four years.

Though the college is funded regularly by various government agencies like UGC, New Delhi, DST-New Delhi, DBT etc. to promote the research in latest areas of sciences but we have not received any support from beneficiary agency or industry for developing research facilities.

3.3.4 What are the research facilities made available to the students and research scholars outside the campus/other research laboratories?

- UG and PG Students are assigned research projects/ dissertations and exposed to the industries training. The college teachers take all necessary efforts and ensure that facilities needed for student of PG and UG projects are fulfilled. The PG students of science streams complete their research projects at inter-departmental college laboratories as well as other laboratories in reputed institutes. The UG students from different departments are encouraged for training from industry as well as institutes of national repute.
- The facilities made available in other institutes/ university include various equipments i.e. SEM, TEM, XRD, LCMS, GCMS, NMR, and Radiation laboratories etc.
- The students are encouraged and funded by the college to participate in various conferences and seminars to inculcate the habit of learning and to develop scientific acumen
- College organises many interactive sessions with renowned scientists of national and international repute like Panjab Univeristy, NIPER, IMTECH, Punjab Bio Technology Incubator, IIT Ropar, Thapar University, CSIO, JNU, IHBT, Florida A&M University, USA .
- National and international level seminars, workshops, educational fests and hands on trainings are organised to make students aware of basics and recent advances in their respective courses / fields.

3.3.5 Provide details on the library/ information resource centre or any other facilities available specifically for the researchers?

- **Library facility:** College Library is the Knowledge Centre for all the departments of the college. Library is playing crucial role in inculcating reading habits among

students. Library collection includes 67,598 books, 115 periodicals, 241 encyclopaedias and 510 dictionaries. It provides the facility of two reading halls and also an outer section hall for its readers for consulting personal books. The functions of library are automated with integration of ERP software named TCS-iON. OPAC is provided to search the articles and books available in the library. A book bank for deserving candidates is well maintained

- **Reference section:** There is a special reference and postgraduate section, which is well equipped with books and journals of national and international repute to provide an array of readings to the students. .
- **Book exhibitions:** Book exhibitions in different disciplines are held on the college campus to enable teachers of various disciplines to select books to be purchased. These exhibitions are held every year and latest books by reputed publishers are purchased to enrich the library. Reference collection is updated every year.
- **Digital library facility:** Keeping pace with the automization trends, a digital library has been established to access electronic resources and Internet services. Digital section of the library is equipped with 52 computers. For smooth and speedy Internet access, it has been connected with the 100 mbps leased line connection. The library is a member of INFLIBNET N-List Programme through which it provides access to about 6,000 e-journals and more than 1,35,000 e-books and from EBSCO the number is 1,38,000.
- **Facility for visually impaired students:** The JAWS screen reading software for facilitating visually impaired students has been installed on two computers.
- The faculty members are provided with networking, e-journals to facilitate their research activities.
- The library facility is available from 8.00am to 8.00pm for students and faculty on all working days.

3.3.6 What are the collaborative research facilities developed/created by the research institutes in the college. For ex. Laboratories, library, instruments, computers, new technology etc.

The aim is to facilitate training in the critical application of research in the field of Science, Humanity and Commerce. The latest infrastructure and equipments are maintained through grants from various funding agencies. The facility has been extended to various students of other colleges/universities to provide research and summer training in the Department of Biotechnology. The list of college/university is given below:

Table 3.9

S.No.	Name of college /university
1	Amity University, Noida, Uttar Pradesh
2	Government College Dharamshala, Himachal Pradesh
3	Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab

3.4 Research Publications and Awards

3.4.1 Highlight the major research achievements of the staff and students in terms of

- Patents obtained and filed (process and product)
- Original research contributing to product improvement
- Research studies or surveys benefiting the community or improving the services
- Research inputs contributing to new initiatives and social development

Patents/ copyrights obtained and filed (process and product):

Vishwakarma, Ram A.; Sawant, Sanghapal Damodhar.; Singh, Parvinder Pal.; Dar, Abid Hamid.; Sharma, Parduman Raj.; Saxena, Ajit Kumar.; Nargotra, Amit.; Kumar, Kolluru Anjaneya Aravind.; Mudududdla, Ramesh.; Qazi, Asif Khurshid .; Hussain, Aashiq.; **Chanauria, Nayan. (EN) BORONIC ACID BEARING LIPHAGANE COMPOUNDS AS INHIBITORS OF PI3K- α AND/OR β (FR) COMPOSÉS LIPHAGANE PORTEURS D'ACIDE BORONIQUE SERVANT D'INHIBITEURS DE PI3K- α ET/OU β . (WO Patent No. WO/2013/14041 A1)**

Original research contributing to product improvement:

Several softwares were developed by the students of our college under the guidance of the expert faculty. Some of these are:

Table 3.10

S.No.	Topics
1	AVERO – Patient Record Management System
2	RNA PRE – RNA Prediction Tool
3	ProLoc – Protein Localization Prediction Tool
4	SAN (Search Analyze Navigate) – A web based nucleotide and protein sequence analysis tool
5	Sequa Analyzer – A tool for nucleotide and protein sequence analysis
6	SAT – Sequence Analysis Tool for biological sequences
7	ANALYTICA - Tool for analysis of Statistical, Mathematical and Biological Data
8	BIOVB – A Sequence Analysis Tool

Research studies or surveys benefiting the community or improving the services:

Some of the research studies or surveys undertaken in the institution are listed below:

Table 3.11

S.No	Topics
1	Comparative Analysis of Sukhjit Starch and Chemicals Ltd. and Starch Industry
2	Comparison between invertors perception towards public and private sector banks
3	Socio-economic conditions of women labour in agriculture in Himachal Pradesh
4	National Rural Health Mission in Haryana
5	Customer perception about ayurvedic products
6	A study of e-commerce and advent of CST in e- commerce model
7	Critical assessment of the health insurance models in India
8	<i>In vitro</i> multiplication of carnation
9	Cost effective micro propagation of carnation
10	A Study Socio-Economic and Political conditions of Women in Slums in Chandigarh
11	Estimation Of chlorophyll content of Trees Growing in shade vs trees growing in sunlight
12	To check adulteration in various milk samples collected from Chandigarh

13	To study the field capacity in different soils
14	Extracellular Hydrolases from Bacterial isolate and its evaluation in the hydrolysis of yeast cell wall.
15	Isolation and Screening of Endophytes from Medicinal Plants for potential biotechnological applications
16	Immobilization of an alkalistable xylanase on calcium alginate Beads from Bacterial endophyte.
17	Production optimisation of alkali stable xylanase enzyme from bacterial endophyte.
18	Isolation and Screening of PHA (Polyhydroxyalkanoate) Producing Bacteria.
19	Private Sector Banks Are More Sound & Efficient Then Public Sector Banks: Assessment Based On Camel Framework.
20	Recruitment & selection process at hotel The First, Chandigarh.
21	Job satisfaction of employees in Saharanpur for ITC Ltd.

Research inputs contributing to new initiatives and social development:

Several documentaries films were prepared by the students of Journalism and Mass Communication and received many awards. These documentaries are listed below:

Table 3.12

S.No.	Inputs
1	LIFELESS ORDINARY (Documentary on Drug Addiction amongst youth)
2	YOUTH TODAY (on Good and Bad Faces of Youth)
3	SISKIYAN: (Documentary on Cancer Belt of Malwa region of Punjab)
4	KARGIL LEST WE FORGET (Documentary on 10 years of Kargil War)
5	PROMISES / VICCHORA (Documentary on Honour Killing)
6	MRIG TRISHNA: (Documentary on Maqboolpura locality (known as village of widows) of Amritsar)
7	32 MINUTES (Documentary on Farmers Suicides) Ankahi Ansuni
8	BASTI (Documentary on Slums)

3.4.2 Does the Institute publish or partner in publication of research journal(s)? If 'yes', indicate the composition of the editorial board, publication policies and whether such publication is listed in any international database?

Yes, the college publishes research journal entitled, “**VANIJA MANTHAN**” with ISSN 2350-0719. The journal is published by Department of Commerce & Management. It publishes research articles and reviews in all domains related to the field of Management and Commerce.

Publication Policy: Peer reviewed journal with two issues per year.

The composition of editorial board is as follows:

Table 3.13

Editor	Dr. Jagwant Singh	HoD, Dept. of Commerce & Management
Editorial Team Member	Dr. Amit Mahindroo	Asst Prof. Dept. of Commerce & Management
	Dr. Yash Pal Taneja	Asst Prof. Dept. of Commerce & Management.
	Dr. Diksha Kakkar	Asst Prof. Dept. of Commerce & Management
	Dr. Mani Parti	Asst Prof. Dept. of Commerce & Management
	Dr. Sumeet Kaur	Asst Prof. Dept. of Commerce & Management

However, the research journal is not listed in any international database so far.

Newsletter “Expression”

The students of the Department of Journalism and Mass Communication bring out Newsletter “Expression” in which they hone their writing skill and editing skills but also gain first hand practical knowledge of page making and editing.

3.4.3 Give details of publications by the faculty and students: Publication per faculty, Number of papers published by faculty and students in peer reviewed journals (national / international), Number of publications listed in International Database (for Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - I n t e r n a t i o n a l Social Sciences Directory, EBSCO host, etc.), Monographs, Chapter in Books, Books Edited, Books with ISBN/ISSN numbers with details of publishers, Citation Index, SNIP, SJR, Impact factor and h-index.

Research paper publication by faculty

The faculty members from all the departments have published a number of research publications in national and international journals of repute.

Table 3.14

Name of Faculty	Year of Publication	International /National	Proceedings	Total	Impact factor	Citation Index	h-index	SNIP	SJR
Dr. Navneet Batra	2010	02	-	02	3.49	12	10	-	-
	2011	02	-	02	4.42	05		1.859	1.436
	2012	07	-	07	10.054	38		4.49	4.016
	2013	01	-	01	-	-		-	-
	2014	03	-	03	3.263	03		2.649	1.298
	2015	01	-	01	-	01		-	-
Dr. Smriti Dhawan	2012	01	-	01	2.204	07	40	1.005	0.536
	2015	01	-	01	1.362	-		-	-
Dr. Ashima Pathak	2011	02	-	02	4.253	13	04	2.01	1.076
	2012	04	-	04	-	06		-	-
	2014	02	01	03	-	-		-	-
	2015	02	-	02	9.614	-		-	-
Dr. M.L Verma	2011	-	01	01	-	-	-	-	-
	2012	01	-	01	0.913	-	-	0.921	0.371
	2013	05	-	05	1.679	-	-	2.077	0.874
	2014	08	-	08	5.121	-	-	4.304	1.645
Dr. Sanjeev Kumar	2013	01	-	01	-	01	-	-	-
	2014	01	-	01	3.00	-	-	1.642	1.091
	2015	02	02	04	2.74	02	-	1.020	0.533
Dr. Amit Goyal	2014	01	-	01	0.64	-	-	01	0.83
	2015	03	-	03	3.758	-	-	5.11	3.51
Dr. Samandeep Sharma	2014	03	-	03	-	-	-	3.214	1.005
	2015	01	-	01	-	-	-	2.318	4.082
Dr. Priya Chhadha	2012	03	-	03	-	-	-	0.437	0.398
Dr. Sargam Preet	2010	01	-	01	0.689	3	-	-	-

	2011	-	01	01					
	2012	03	-	03	-	2	11	-	0.26
	2013	04	-	04	1.564	-	6	0.233	0.251
	2014	01	-	01	0.073	-	2	0.184	0.207
Dr. Kriti Sharma	2011	-	02	02	-	9	6	-	-
	2012	-	02	02	-	38		-	-
	2013	-	01	01	-	34		-	-
	2014	-	01	01	-	02		-	-
	2015	02	01	03	3.00	-		2.689	1.791
Dr. Nidhi Mittal	2011	01	-	01	-	-	-	-	-
	2015	01	-	01	3.6241	-	-	-	-
Dr. Neetu Thakur	2012	01	-	01	-	04	02	-	-
	2013	02	-	02	5.765	02		-	-
	2015	02	-	02	3.6241	-		-	-
Dr. Avneet Kaur	2015	03	-	03	4.2991	-	-	-	-
Dr. Shikha Gupta	2011	-	02	02	-	12	03	-	-
	2012	-	01	01	-			-	-
	2013	-	01	01	-			-	-
Dr. Diksha	2010	01	-	01					
	2011	01	-	01					
	2012	02	-	02					
	2013	03	-	03	0.420				
	2014	02	-	02					
Ms. Anupriya Bhardwaj	2011	01	-	01					
	2014	03	-	03	5.049				
Dr. Shallu Sharma	2014	04	-	04	16.04	-	-	-	-
	2015	02	-	02	11.754	-	-	-	-
Dr. Vinckle G Singh	2011	02	01	03					
	2014	02	-	02	3.984				
Aashima Arora	2015	01	01	02	5.099				
Dr. Arun Kumar Sharma	2014	07	-	07	3.445				
Ms. Shipra Bansal	2011	01	-	01					
	2013	02	-	02	7.023				
	2014	04	-	04	9.23				
Ms. Gunjan Malhotra	2014	01	-	01					
	2015	01	03	04	4.74				
Ms. Pooja Sareen	2013	01	-	01	4.287				
Dr. Manisha Gangahar	2013	02	-	02					
	2014	01	-	01	4.287				
Ms. Poorva Trikha	2013	03	-	03	5.183				
	2014	02	-	02	-				
Ms. Ritika Sinha	2015	01	-	01	3.416				
Ms. Pooja Mohan	2011	-	04	04	-	-	-	-	-
	2012	-	03	03	-	-	-	-	-
	2013	01	01	02	0.8	-	-	-	-
	2014	-	01	01	-	-	-	-	-
	2015	02	-	02	3.882	-	-	-	-

Ms. Archana Goyal	2014	-	01	01	-	01	09	-	-
Ms. Manu Sehgal	2011	04	-	04	-	05	05	-	-
	2014	-	01	01	-	-	-	-	-
Dr. Tarundeep Kaur	2010	01	-	01	-	-	-	-	-
	2011	01	03	04	0.47	-	-	-	-
	2012	03	-	03	2.14	-	-	-	-
	2013	02	-	02	0.47	-	-	-	-
Dr. Minakshi Rana	2014	02	-	02	0.94	-	-	-	-
	2015	01	-	01	-	-	-	-	-
Ms. Seema Aggarwal	2012	01	-	01	5.525	-	-	-	-
Dr. Rinku Kalia	2014	02	-	02	0.98	-	-	-	-
Dr. Akhlesh P Singh	2010	-	01	01	-	-	-	-	-
Mr. Varinder Kumar	2011	-	01	01	-	-	-	-	-
	2012	-	01	01	-	-	-	-	-
Ms. Chanderjyoti	2015	01	-	01	-	-	-	-	-
Ms. Sandeep Kaur	2015	-	01	01	-	-	-	-	-
Dr. Jyoti Kataria	2015	01	-	01	-	-	-	-	-
Dr. Indu Mehta	2015	01	-	01	-	-	-	-	-
Dr. Ajay Sharma	2012	03							
	2013	01							
	2014	04							
	2015	02							
Dr. Yash Pal Taneja	2010	01	-	01	-	-	-	-	-
	2011	02	-	02	-	-	-	-	-
	2012	01	-	01	-	-	-	-	-
	2013	06	-	06	-	-	-	-	-
	2014	01	-	01	-	-	-	-	-
Dr. Amit Mohindroo	2013	04	-	04	-	-	-	-	-
Dr. Meenu Gupta	2012	03	-	03	-	-	-	-	-
	2013	01	02	03	-	-	-	-	-
	2014	03	-	03	-	-	-	-	-
Dr. Mani Parti	2011	01	-	01	-	-	-	-	-
	2013	01	-	01	-	-	-	-	-
Dr. Sumeet	2014	01	-	01	-	-	-	-	-
	2015	01	-	01	-	-	-	-	-
Dr. Monika Mittal	2010	02	-	02	-	-	-	-	-
	2011	01	01	02	-	-	-	-	-
	2012	01	-	01	-	-	-	-	-
	2013	01	-	01	-	-	-	-	-
	2015	-	01	01	-	-	-	-	-
Dr. Geeta Sharma	2010	01	-	01	-	-	-	-	-
	2011	05	02	07	-	-	-	-	-
	2012	01	-	01	-	-	-	-	-
	2013	03	-	03	-	-	-	-	-
Mr. Sureet Singh	2013	04	-	04	-	-	-	-	-
	2014	04	-	04	-	-	-	-	-
Ms. Savita Sindhu	2010	01	02	03	-	-	-	-	-
	2013	01	-	01	-	-	-	-	-

	2014	01	-	01	-	-	-	-	-
Dr. Nidhi Grover	2014	01	-	01	-	-	-	-	-
	2015	07	03	10					
Ms. Menka Goswami	2012	04	-	04	-	-	-	-	-
	2013	01	-	01	-	-	-	-	-
	2015	02	-	02	-	-	-	-	-
Mr. Gagandeep Sharma	2013	01	-	01	-	-	-	-	-
Ms. Niharika Sharma	2014	02	-	02	-	-	-	-	-
Dr. Arti Jolly	2010	02	-	02	-	-	-	-	-
Dr. Madhur Mohit Mahajan	2010	03	-	03	-	-	-	-	-
	2012	01	-	01	-	-	-	-	-
Ms. Preeti Vohra	2010	01	-	01	-	-	-	-	-
	2012	02	-	02	-	-	-	-	-
Ms. Megha Devgan	2013	02	-	02	-	-	-	-	-
	2014	02	-	02	-	-	-	-	-
	2015	-	01	01	-	-	-	-	-
Dr. Payal	2012	01	-	01	-	-	-	-	-
	2014	03	-	03	-	-	-	-	-
	2015	-	01	01	-	-	-	-	-
Dr. Meenu Gupta	2014	01	-	01	-	-	-	-	-
Dr. Deepti Narang	2015	02	-	02	-	-	-	-	-
Dr. Nidhi Mittal	2015	01	-	01	-	-	-	-	-
Dr. Jaskiran Tiwana	2010	01	-	01	-	-	-	-	-
	2013	01	-	01	-	-	-	-	-
	2014	01	-	01	-	-	-	-	-
Dr. Archana Sahni	2014	01	-	01	-	-	-	-	-
Dr. Liza Nanda	2010	01	-	01	-	-	-	-	-
	2013	01	-	01	-	-	-	-	-
	2014	02	-	02	-	-	-	-	-
Dr. Richa Gaiind	2012	03	-	03	-	-	-	-	-
Ms. Sumita Sikka	2011	01	-	01	-	-	-	-	-
	2012	01	-	01	-	-	-	-	-
	2014	01	-	01	-	-	-	-	-
	2015	03	01	04	-	-	-	-	-
Dr. Moirangthem Parmod	2013	08	-	08	-	-	-	-	-
	2014	02	-	02	-	-	-	-	-
Ms. Shikha	2013	-	01	01	-	-	-	-	-
	2015	01	-	01	-	-	-	-	-
Ms. Parampreet Kaur	2013	01	-	01	-	-	-	-	-
	2014	01	-	01	-	-	-	-	-
Ms. Sarika Dhiman	2013	02	-	02	-	-	-	-	-
	2014	01	-	01	-	-	-	-	-
Ms. Sunita Panigrahy	2015	01	-	01	-	-	-	-	-
Dr. Virender Singh	2011	-	05	05	-	-	-	-	-
	2012	01	02	03	-	-	-	-	-
	2015	01	-	01	-	-	-	-	-

Dr. Rina	2011	03	-	03	-	-	-	-	-
	2012	-	01	01	-	-	-	-	-
	2014	-	01	01	-	-	-	-	-
Ms. Monika Sethi	2011	-	01	01	-	-	-	-	-
	2014	-	01	01	-	-	-	-	-
Ms. Gagandeep Kaur	2013	01	-	01	-	-	-	-	-
	2014	03	-	03	-	-	-	-	-
	2015	03	-	03	-	-	-	-	-
Mr. Anubhav Sharma	2013	-	01	01	-	-	-	-	-
	2014	-	01	01	-	-	-	-	-
Ms. Himani Mittal	2012	01	-	01					
	2013	01	-	01	-	-	-	-	-
	2015	01	-	01	-	-	-	-	-
Ms. Kawalpreet Kaur	2014	-	01	01	-	-	-	-	-
Dr. Garima Srivastava	2014	-	01	01	-	-	-	-	-
Mr. Abhay Singh	2014	-	01	01	-	-	-	-	-
Ms. Jyoti Maini	2014	-	01	01	-	-	-	-	-
Ms. Preet Kamal	2014	-	01	01	-	-	-	-	-
Dr. Kulwinder Kaur	2012	01	-	01	-	-	-	-	-
	2013	01	-	01	-	-	-	-	-
	2014	01	-	01	-	-	-	-	-
Ms. Seema Kumari	2012	01	-	01	-	-	-	-	-
	2013	02	-	02	-	-	-	-	-
Ms. Monika Soni	2011	02	-	02	-	-	-	-	-
	2013	08	-	08	-	-	-	-	-
Dr. Harvinder Chahal	2014	03	-	03	-	-	-	-	-
	2015	02	-	02	-	-	-	-	-
Dr. Devi Singh	2010	04	-	04	-	-	-	-	-
	2011	02	-	02	-	-	-	-	-
	2012	02	-	02	-	-	-	-	-
	2013	05	-	05	-	-	-	-	-
	2014	02	-	02	-	-	-	-	-
	2015	01	-	01	-	-	-	-	-
Dr. Mona Arora	2012	01	-	01	-	-	-	-	-
	2013	01	-	01	-	-	-	-	-
Mr. Gurpreet Singh	2011	-	01	-	-	-	-	-	-
	2012	01	01	02	-	-	-	-	-
	2013	01	-	01	-	-	-	-	-

Research Paper publications by students

The students have also published a number of research publications in national and international journals of repute and participated in several conferences / seminars.

Table 3.15

S.No	Name of student	Year of Publication	Journal/ Proceeding	Total
1	Pronoti	2015	01	01
2	Devangi Grover	2015	01	01
3	Swati Chhikara	2015	01	01
4	Mansi Garg	2015	01	01
5	Priyanka Thawany	2015	01	01
6	Sneh Lata	2015	01	01
7	Damandeep Kaur	2015	01	01
8	Heenam	2015	01	01
9	Richa	2015	01	01
10	Shallu	2015	01	01
11	Twinkle Pahwa,	2015	01	01
12	Sonia Rani	2015	01	01
13	Himani Chawla	2015	01	01
14	Kanav Sharma	2015	01	01
15	Shikha Rangra	2015	01	01
16	Rakesh Kr. Pandit	2015	01	01
17	Asheema Vats	2015	01	01
18	Tamanna	2015	01	01
19	Aarushi Jaswal	2012	01	01
20	Priya khetarpal	2012	01	01
21	Ajinder Kaur	2010	01	01

Books published by faculty

Besides publications in National/International journals, the faculty has also contributed in writing chapters in the books and also books related to the syllabus.

Table 3.16

S.No	Name of Faculty	Books	Chapters/Articles in Books
1	Dr. Ajay Sharma	72	
2	Dr. Jagwant Singh	05	
3	Ms. Mani Parti	11	
4	Dr. Meenu Gupta	06	
5	Dr. Aruna Saini	08	
6	Ms. Arvuda Sharma	01	
7	Dr. Ashima Pathak	01	
8	Ms. Divya Jyoti Randev	01	
9	Dr. Liza Nanda	02	
10	Dr. Madhur Mohit Mahajan	01	01
11	Dr. Manisha Gangahar	01	
12	Dr. Mona Arora	02	02
13	Ms Parampreet Kaur	01	
14	Dr. Payal	01	

15	Ms Pooja Mohan	02	
16	Mr. Poorva Trikha	01	01
17	Dr. Shallu Sharma	01	
18	Dr. Sumeet Kaur	01	
19	Ms. Priyanka Malhotra	01	
20	Ms. Gagandeep Kaur	02	
21	Dr Tarundeep Kaur	01	
22	Dr. Kapil Dev	01	
23	Dr. Virender Singh	04	
24	Dr. Anil Parti	01	
25	Mr. Gagandeep Sharma	02	
26	Mrs. Preeti Vohra	01	
27	Ms. Sumita Sikka	04	
28	Dr. M. Parmod	01	
29	Mr. G.K Saini	02	
30	Dr. Devi Singh	02	
31	Dr. Akhlesh P singh	-	01
32	Ms. Anupriya Bhardwaj	-	02
33	Dr. Archana Sahni	-	05
34	Dr. Geeta Sharma	-	02
35	Ms. Gunjan Malhotra	-	01
36	Dr. Ibadat Khan	-	01
37	Dr. Kulwinder Kaur	-	-
38	Ms. Monika Sethi	-	01
39	Dr. Amit Mohindroo	02	
40	Dr Neetu Thakur	-	01
41	Dr Nidhi Mittal	-	01
42	Dr Priya Chadha	-	-
43	Dr. Priyanka	-	01
44	Dr Smriti Dhawan	-	01
45	Ms. Sumita Sikka	-	04
46	Dr. Diksha	02	-
47	Mr. Varinder Kumar	-	01
48	Dr. Rina	-	02
49	Ms. Shailja Agnihotri	-	02
50	Ms. Monika Soni		03
51	Dr. Yashpal	01	

3.4.4 Provide details (if any) of research awards received by the faculty, recognition received by the faculty from reputed professional bodies and agencies, nationally and internationally and incentives given to faculty for receiving state, national and international recognitions for research contributions.

Table 3.17
Research Awards received by the faculty

S.No	Name of Faculty	Title of Award/Honour	Given by	Year	Department
1	Dr. Amit Goyal	Invited to present a paper at School on Hands-On Research in Complex Systems held at ICTP, Trieste, Italy and awarded Travel Grant	International Centre for Theoretical Physics (ICTP)	2015	Physics
2	Dr. Priya Chhadha	Invited to present a paper in International Conference at University of Oxford , Mansfield College and awarded Travel Grant	University Grants Commission, New Delhi	2015	Journalism & Mass communication
3	Dr. Ashima Pathak	Second Prize in Poster Presentation on CHASCON-2014	Punjab University	2014	Biotechnology
4	Dr. Ashima Pathak	Invited to present a paper in International Conference at Malaysia and awarded Travel Grant	University Grants Commission, New Delhi	2014	Biotechnology
5	Dr. Neetu Thakur	First in Poster presentation in COSMID	DBT sponsored Science Fest	2014	Biotechnology
6	Dr. Amit Goyal	Invited to present a paper in International Workshop at ICTP, Italy and awarded Young Scientist Foreign Travel Grant	Department of Science & Technology (DST), New Delhi	2013	Physics
7	Dr. Diksha Kakkar	Best Paper award	IBS, Gurgaon and AIMS	2013	Commerce
8	Dr. Amit Goyal	Invited to present a poster in International Conference Dynamic Days – Asia Pacific 7 held at Taipei, Taiwan and awarded Young Scientist Foreign Travel Grant	Council of Scientific and Industrial Research (CSIR), New Delhi	2012	Physics
9	Dr. Diksha Kakkar	Best Presenter Award	Punjab College of Technical Education	2011	Commerce

10	Dr. Indu Mehta	Award of Honour for participating in 5 th International YPF	Yuvsatta	2010	Zoology

Table 3.18
Recognition received by the faculty from reputed professional bodies and agencies

S.No.	Name of Faculty	Recognition	Given by	Year	Department
1	Dr. Bhushan K.Sharma	Fellow Member	Institute of Company Secretary of India	2014	Principal
2	Mr. Ajay Sharma	Co-opted member to Managing Committee	ICSI- Chd. Branch	2011	Commerce
5	Dr. Diksha Kakkar	Reviewer under Financial Division for 545 th Annual Conference	Administrative Sciences Association of Canada	2011	Commerce
6	Dr. Manisha Gangahar	Book entitled “Kashmir’s Narratives of Conflict: Identity Lost in Space and Time”	Book released by Chandigarh Literary Society	2013	English
7	Mrs. Meera Sharma	Certificate of appreciation under the Sarv Shiksha Abhiyan	UT Administration	2010	English
8	Dr. M.L Verma	Listed on the IBC list of the leading scientists of the World	International Biographical Centre	2010	Physics
		Got “Leading Scientists of the Worlds” medal	International Biographical Centre	2010	Physics

Incentives given to faculty for receiving state, national and international recognitions for research contributions.

Rs. 5000/- is given to the faculty member when Ph.D. degree is awarded /completed during the service.

3.5 Consultancy

3.5.1 Give details of the systems and strategies for establishing institute-industry interface?

The Placement cell of the college plays an important role in establishing institute-industry interface for the skill improvement as well as imparting placement opportunity for the students. The students are regularly made aware of current trends which prepares them for the market needs. They are delivered extension lectures by professional consultants and experts from the reputed public and private organizations and various industries. Regular training sessions are organized to guide students to face job interviews. Over the previous few sessions, various reputed companies like TCS, Google, Unicon Investment Solutions Pvt. Ltd. IBM Computer Applications, Wipro, HCL etc. have regularly been coming to the college campus for placements. The College has signed MoU’s with reputed Institutes/Industries like

Galactic Infotech Solution Pvt. Ltd., S.K. Clinical Laboratory, EkOmkarInfoTech, HPMC Ltd. Parwanoo, Innovative Designs, National Institute of Electronics and Information Technology, Central Poultry Development Organisation to give support in area of Curriculum Designing and practical training to students.

3.5.2 What is the stated policy of the institution to promote consultancy? How is the available expertise advocated and publicized?

The institution encourages and supports the faculty to utilize their expertise and for consultancy services. Faculty members from Departments like Information Technology, Commerce, Science and English have been providing consultancy services in their field. Academic expertise of individual faculty members is publicized through the College web site and through interaction with Peers and Experts during the Seminars and Conferences.

3.5.3 How does the institution encourage the staff to utilize their experts and available facilities for consultancy services?

The college motivates the staff to utilize their expertise by interacting with institutions, organizations and other agencies. College provides all types of facilities and gives them travel expenses and duty leave. The following members have given lectures in various Institutes.

- Mrs.Ashima Dhir, Department of English, was invited as key speaker by Public Relation Society of India (Chandigarh Chapter) to speak on “Ethics in Governance and Business: Role of Public Relations”(2010-11).
- Mrs. Ashima Dhir, Department of English, invited by Rotary Club, Chandigarh as the resource person.
- The Public Relations Council of India also invited Mrs.Dhir to participate as panelist in panel discussion on “Ethics in Communication” at PHD house, Chandigarh (2011-12).
- Mr. Ajay Sharma, Department of Commerce and Management was invited as Resource person in a seminar organized by Chandigarh Chapter of NIRC of Institute of Company Secretaries of India on the topic of Recent changes in Customs Act (2012-13)
- Ms. Meera Sharma, Department of English was invited by Day and Night News Channel to participate in a panel discussion on Road Safety (2012-13).
- Dr.Jagwant Singh, Department of Commerce acted as a resource person at Faculty Development Programme organized by EDI of India, Ahmedabad and Guru Nanak Dev University, Amritsar at Jalandhar Campus of GNDU. He also delivered lectures at Academic Staff College, Panjab University, Chandigarh (2013-14).
- Mrs.Ashima Dhir, Department of English was invited as Resource person at Faculty Development Programme organized by Pandit Mohan Lal SD College for Women, Gurdaspur (2013-14).
- Ms. Pooja Sarin, Department of English delivered expert talk at TEQIP-II Faculty Development Programme held at Dr. S. S.Bhatnagar University Institute of Chemical Engineering and Technology, Panjab University (2013-14).
- Mr. Gagandeep Sharma, Assistant Professor, Department of Economics was invited by University of the Fraser Valley, Abbotsford, BC, Canada for delivering lectures in area of his specialization (2014-15).
- Mr. Gagandeep Sharma, Assistant Professor, Department of Economics was invited as Resource person for “Orientation Course for PGT’s Economics” by Navodaya Leadership Institute, Navodaya Vidyalaya Samiti, Chandigarh (2014-15).

- Mr. Gagandeep Sharma, Assistant Professor, Department of Economics was invited to deliver lectures as Resource person in 3 week Refresher Course conducted by Academic Staff College, Himachal Pradesh University, Shimla (2014-15).
- Mr. Puneet Sharma, Assistant Professor, Department of Mathematics was invited in GANIT WEEK at Mount Carmel School, Chandigarh as Resource person to deliver a lecture on How to make the study of Mathematics more Interesting (2014-15).
- Dr. Arti Jolly, Assistant Professor, Department of Economics was invited to deliver a Lecture on “Economic Development & Growth” to TGT’s by Kendriya Vidyalaya Sangathan, Zonal Institute of Education & Training, Chandigarh (2014-15).
- Dr. Virender Singh, Department of Information and Technology was invited as a Resource person at various reputed institutes like Regional Institute of Cooperative Management, Chandigarh, NABARD, Kendriya Vidyalaya, ICSI, ICAI (2014-15).

3.5.4 List the broad areas and major consultancy services provided by the institution and the revenue generated during the last five years.

Department of Chemistry, Biotechnology and Commerce provided the Consultancy services regarding training programme to Madurai Kamraj University, Shri Guru Gobind Singh World University Fatehgarh Sahib, Government College, Dharamshala & NCCMP Course.

The Revenue Generated during last four years is as follows

Year	Revenue Generated
2011-12	12,31,912/-
2012-13	2,00,000/- + 2,80,000/-
2013-14	1,65,000/- + 2,80,000/-
2014-15	1,85,000/- + 2,80,000/-

3.5.5 What is the policy of the institution in sharing the income generated through consultancy (staff involved: Institution) and its use for institutional development?

60% of the income generated through the consultancy /training programme is distributed among the staff involved while rest of the 40 % of the income is retained by the institution for the development of college. In certain cases this 40% is given to the department for running their programmes for consultancy work

3.6 Extension Activities and Institutional Social Responsibility (ISR)

3.6.1 How does the institution promote institution-neighborhood-community network and student engagement, contributing to good citizenship, service orientation and holistic development of students?

The College believes in the motto that quality education not only involves domain specific education but also various activities, which hone skills, develop greater productivity and creativity for the overall development of the personality. To raise the spiritual quotient also to make them socially reasonable citizens, students are encouraged to participate in spiritual and value based activities like community development, health and hygiene awareness

programme, adult education and literacy programme, AIDS awareness programme, social work, medical camps, environmental awareness and blood donation camps.

Every new session starts with *Havan* to seek the Divine blessings. *Havan* is also performed on Basant Panchmi and Maa Durga Asthami to inculcate spiritual quotient in students.

Cultural fests and fairs are organised through out the year. Various important occasions which are an integral part of our culture are celebrated with zeal and enthusiasm to develop a sense of national and festive spirit. These include: Republic day, Lohri, Basant Panchami, Baisakhi, Eid-Ul-Fitar, Independence Day, Jananashthami, Gurparv, Diwali etc.

Institution-neighborhood-community network

NSS

The College runs two NSS units with a primary aim to inculcate a sense of social responsibility and also to stimulate the participation of students in constructive and extension work in slums and backward villages.

Outreach Programme

- With an aim to extend a helping hand to the needy in our society, our College exhibits a deep sense of social concern by launching various outdoor camps and activities
- International Youth Peace Festival is organized annually in coordination with by NGO *Yuvsatta*. During this six day festival a number of workshops are conducted that include topics like Global Citizenship, Youth for Peace, Think Global-Act Local, and Food Security. This festival is an excellent opportunity for the youth to channelizes their energy in a positive and productive manner.
- Our NSS Units have defined annual goals and work towards Cleanliness drive, National intergration and AIDS awareness etc. They also organise medical camps like eye check up, dental check up and blood testing camps in slum areas around chandigarh with an aim to extend a helping hand to the needy.
- The college organises Pt. Mohan Lal Memorial lectures annually with an aim to promote spiritual and moral growth of students and faculty eminent personalities like General V.P Malik, ex chief of Army and Motivational speaker Mr. Shiv Khera were invited to encourage and motivate our students.
- Blood donation camp is organised every year in support with the Alumni Association of the college and Lioness Club, Panchkula.
- The environmental society "Haritima" celebrates Vanmahostava every year and a large number of ornamental plants are planted in collaboration with the students of Department of Botany.

NCC

The NCC cadets are groomed for regular commission in the army and paramilitary forces. They participate in Republic Day Parade at Delhi, They also participate regularly in basic and advanced leadership camps, etc.

Student Engagement

MANASUDAY ("Awakening of Mind"):

This counseling centre is being run by the Department of Psychology for handling day-to-day stress faced by the students. Yoga classes and Art of Living workshops are also organised for students under the aegis of center.

Contributing to good citizenship

B.R. Ambedkar School in Naya Gaon: The Institution has also taken up the responsibility of contributing towards the overall development of children of B.R. Ambedkar School in Naya Gaon. Various activities like Children workshops on art and craft, drawing and coloring, communication skills and personality development are organised from time to time by the volunteers of Spirit India.

Financial Help to Needy Students The College encourages the students to realise their responsibilities towards people in distress and financial crisis. The students of our college took the responsibility of collecting money to help our ailing student Kartik, of B.Sc II for kidney transplant. The college also extended a helping hand and donated an amount of Rs 4.00 lakh for this purpose.

Service orientation

SPIRIT INDIA It is a student volunteer group of GGDSD College under the aegis of the NGO “AAVAHAN” which plans various outreach programmes and events based on social issues such as women empowerment, literacy drive, fighting corruption etc.

3.6.2 What is the Institutional mechanism to track students' involvement in various social movements / activities which promote citizenship roles?

The college promotes activities beyond the classrooms learning by setting up various clubs and societies headed by the faculty members of the college e.g. Aesthesia Club, ASHRA Club, BBA Club, Bioinformatics Club, BOSONS Club, Commerce Club, M.U.N, Computer Club, COSMID, English Literary Club, Haritima, I.A.S. Aspirants Club, Language Forum, Legal Awareness Society, Mahadevi Verma Sahitya Club, Audio Visual and Media Club, Music Club, Planning Forum, Red Ribbon Club, Science Club, Shiv Kumar Batalvi Society, SPIC MACAY, SPIRIT INDIA, Photography club, etc. These activities are organised vigorously by clubs and associations of the college with the help of faculty members, NCC Cadets, NSS volunteers, Spirit India volunteers, Manav Dharam Kendra, Kaushaliya Devi Verma Institute for women in collaboration with GOs and NGOs, etc.

Students are encouraged to organize various events that help them to apply knowledge enhances various skills acquired in the classrooms inculcating participative learning:-

- The students of Department of Journalism and Mass Communication bring out Newsletter “Expression” in which they not only hone their writing and editing skills but also gain first hand practical knowledge of page making and editing.
- Students are also encouraged to edit publication of the various college magazines such as “Tyagmurti”.
- Students produce documentary on Social issues.

General tutorial are held once a month and every student is placed under the personal guidance of a tutor which help to inculcate spiritual, ethical, moral and Sanatani values and channelizes their energies in a positive direction.

3.6.3 How does the institution solicit stake holder perception on the overall performance and quality of the institution?

The stake holder such as the administration, students, parents, Alumni members are fully involved in the decisions which in turn affect the performance and quality of the institution.

- **College Alumni Association:** Our College has a strong Alumni Association comprising our students who have excelled in their respective field including public

sector undertaking, corporate houses, judiciary, media, theatre, production house, research, and academic institutes and professional consultancies etc. Our alumni impart a sense of accomplishment and motivation to the college. The SD Alumni Association (SDAAC) regularly organizes as well as participates in various college activities for the benefit of current batches and generously contributes towards many social causes. Any student who passes out from the college can become the members of the Alumni Association by applying online form available at college website.

- **PTA association:** Various Departments of the college organize Parent Teacher Meeting (PTM) to take feedback from the parents. The stakeholders are always keen to see that quality of higher education improves in the institution. Inter and Intra departmental meetings are a regular feature to monitor the progress of student and the performance of the student is communicated to his/her parents through SMS, phone calls or during PTM.
- **Student perception by feedback form:** The Head of the institution ensures that adequate information with regards to the teaching quality, curriculum, extra-curricular activities and infrastructural requirements is availed through feedback forms. After thorough discussion and deliberations, the existing facilities and activities are reviewed and decisions are taken for their implementation.
- **Industry stake holder:** Our Alumnus can be found in all sectors of global economy from the top floors of corporate headquarters to the ground floors of grass-root NGOs; As a mark of respect and gratitude to their Alma Mater which has shaped and chiseled their personalities, they render valuable service to the college by delivering lectures on their areas of specialization, giving their valuable suggestions on curriculum designing and other aspects of functioning of the college.

In order to keep students updated with latest areas in their fields of study, our Alumni interact with them and provide inputs about the latest trends in management, human resources, marketing and operational areas etc.

3.6.4 How does the institution plan and organize its extension and outreach programmes? Providing the budgetary details for last four years, list the major extension, outreach programmes, and their impact on the overall development of students.

The institution plan and organize its extension and outreach programmes like community development, health and hygiene awareness programmes, adult education, literacy programme, social work, medical camps, environment awareness. These activities are organised by clubs and associations of the college with the help of faculty members, NCC Cadets, NSS volunteers, Spirit India volunteers, Manav Dharam Kendra, M.K.D.V institute for women in collaboration with GOs and NGOs etc. The college has various clubs and societies headed by the faculty members of the college, which also organises various activities.

The Principal alongwith the Dean Cultural Activities prepares a calendar of all the extension and outreach programmes the faculty incharge of various clubs and NSS Unit plans various activities all through the year. The Principal invites the budgetary needs from these clubs and units and sanctions the necessary amount to carry out these activities.

- World AIDs day is celebrated every year on 1st December in association with “RED Ribbon CLUB” of the college where the student spread the message “UNITE to

FIGHT” by holding candle light march. Awareness rallies are also held to make people aware about the HIV testing facilities, myths and facts about AIDS, etc.

- UN sanctioned World Toilet day was observed as part of Swachh Bharat Abhiyan in which lack of toilets, a basic problem faced by millions of Indian especially women in rural areas, were highlighted and students were counselled to spread awareness regarding this problem.
- Swachh Bharat Abhiyan -NSS volunteers organised a ten day long awareness and cleanliness drive in the college campus.
- National integration Day is also observed in our college with great gusto and students are made aware of the history of partition and challenges posed by princely state in integrations of our country.
- The NSS unit in collaboration with Yuvasatta organized a rally at Sukhna Lake to celebrate Wildlife week. The NSS volunteers also participated in “Nature and Wildlife Trek” and “Walk for Peace and Wildlife”.
- On the eve of Anti-Corruption day, the College students in collaboration with and Yuvasatta an NGO launched a “Your No counts” campaign.
- On World Sight Day, the NSS unit of College in association with Lioness Club, Panckhula Central organised an Eye Donation Awareness Campaign on the campus in which more than five hundred students and faculty members pledged their eyes for the noble cause.

SPIRIT INDIA

It is a student volunteer group of GGSDS College under the aegis of the NGO “AAVAHAN” which plans various outreach programmes and events such as road safety women empowerment, literacy drive, fighting corruption and alcoholism etc.

- On the eve of Gandhi Jayanti, Spirit India volunteers organized a “Cleanliness Drive” where Students and teacher volunteers chose to manually clean the sector 32 market.
- Road Safety Awareness - Spirit India volunteers organised a day long awareness camp on road safety and a play ‘Jeevan Hai Anmol’ was staged by the volunteers. The students of Government High School, Sec -35 were also given lecture regarding traffic rules and road safety. They also visited Children Traffic park in Sec 23 and viewed a movie on Road Safety.
- Spirit India also organises various encouraging sessions such as “Coming out of Shell” to help students overcome peer pressure, shyness, complacency, fear of disapproval etc.
- Police Awareness drive was organised which apprised students about measures taken by police about the safety of women, senior citizens, cyber crimes, etc. Students were also informed about the unique initiatives taken by Chandigarh administration such as ICLICK and smart 24X7 mobile applications.
- Spirit India volunteer in association with NGO Aavahan organised a workshop on “Healthy Living” for the trainees of Mrs. Kaushaliya Devi Verma Charitable Institute and provided guidance on how to handle stress.
- Volunteers of Spirit India under the guidance of Police beat officer took part in “Safe City campaign” where the citizens were sensitized about the necessity of following road safety rules.
- Spirit India volunteers performed a play “Aaj Ka Sach” at 24th Road Safety Week at Children Traffic park, Sector 23 and at Tagore theatre, Sec18 Chandigarh

- The volunteers also staged a street play “Ek Kadwa Sach”, which was also selected to be performed at the closing ceremony of 23rd National Road safety week organised by Chandigarh Administration.
- A signature drive was undertaken by Spirit India volunteers to make students aware about their duties and responsibilities towards the nation.
- A workshop on “Handling Stress” was organised for the trainees of Mrs. Kaushaliya Devi Verma Charitable Institute to help them handle their day to day stresses.

Manav Dharma Kendra

This Kendra regularly organizes lectures and activities to heighten spiritual quotient, cosmopolitan outlook and universal brotherhood. These lectures help in imparting sound moral, ethical values amongst the students and which help them become responsible citizens.

Social Awareness and Concerns

The College organises exhibitions and workshops for fund raising, medical awareness and adult education. The college also runs a non-Government organization of Student and college alumni ASHRA (Association of Students for Human Right Awareness).

Outreach Programmes

Our College reflects a deep sense of social concern by launching various outdoor camps and activities with an aim to extend a helping hand to the needy.

- Several medical camps are organised in Colony no 5 Chandigarh, where the health and hygienic conditions are a matter of concern. Dental camps and eye check up camps were held where around 250 residents were checked and residents were made aware about the general health, hygiene, drugs and disease prevention.
- The NSS Unit organises free medical camps in collaboration with “Aarogya Bharti” in Bapu Dham Colony, Sector 26 where free basic health tests are conducted in slum areas of Chandigarh.
- The Spirit India volunteers visited Special Training Centers allotted to Aavahan under Sarv Shiksha Abhiyaan project at Govt High School, Sec-35 Chandigarh and organised an interactive session to inculcate a spirit of healthy competitiveness amongst children and to enhance their communication skills and self confidence.
- Spirit India volunteers have also taken up the responsibility of contributing towards the overall development of children of B.R. Ambedkar School in Naya Gaon. Various activities are undertaken for the upliftment of the children of marginalized sections of society. Children workshops on art and craft, drawing and colouring, communication skills and personality development are conducted from time to time. Special days and festivals like Rakhi, Diwali, Independence day, Teacher Days are celebrated collectively to instill a feeling of self-esteem and confidence. The children are also taken for educational trips to rock garden, rose garden, war memorial, which provide them with an opportunity to know their surroundings. Every year on Teacher’s Day, the Spirit India volunteers visit the School for distributing gifts and prizes to the teachers and students.

General Tutorial System

Under this system, tutorials are held once a month and every student is placed under the personal guidance of a tutor who maintains a complete record of his/ her progress and acts as a personal counsellor and moral guide to the students.

Value Addition

Special lectures are organised where students are motivated and trained to enhance their potential market employability by taking up professional courses like C.A/C.S/ C.F.A and computer courses.

Cultural Enlightenment

Various cultural fests and fair are organised throughout the year. Various important festival which are integral part of culture , are celebrated with zeal and enthusiasm such as Independence Day, Republic day, Jananashthami Teej, Gurparav, Diwali, Lohri, Basant Panchami, Baisakhi, and Navaratas .All these activities help in inculcating sound morals and ethical values amongst all the students.

3.6.5 How does the institution promote the participation of students and faculty in extension activities including participation in NSS, NCC, YRC and other National/ International agencies?

The Institution encourages the students and faculty to take part in various extension activities for the overall development.

Table 3.19

Category	Enrolment	Camps
NSS 2011-2012	200 Students	- In Sept, 2011 one week camp was organised in which a drug de-addiction and anti-violence campaign was conducted - A two day medical camp was held in Colony no 5, Chd where blood test and dental checkups of more than 400 residents was done and awareness was created for regular checkups.
2012-2013	200 Students	Two one day orientation camps were held in Sept, 2013
2013-2014	200 Students	In Sept, 2014 one week camp was held in which NSS volunteers identified the youth who wish to do something in life but lack the resources. Around 50 literate youth were identified from Colony No 4, Industrial area I, Chandigarh who were provided with free training in communication skills, retail and marketing.
2014-15	200 Students	The NSS Volunteers organised special camps which includes Free Medical Camp, Dariyadili Campaign in which they distributed woollen cloths to underprivileged National Urban Livelihood Mission, Yoga and Arts of Living camp.

2015-16	200 Students	In October 2015 one week camp was held in which NSS volunteers were assigned cleanliness drive; tree plantation and green audit. They have also, conducted an awareness drive on “Beti Bachao and Beti Padhao”.
NCC 2011-2012	Two NCC platoons comprising of 52 cadets.	32 cadets attended Annual training camp held in Roopnagar in the month of Oct where our college won first prize in cross country race. - Three cadets attended National integration Camp (NIC) at Cuttack - Three cadets attended Amartankak trekking camp - One cadet attended NIC (Gaya)
2012-2013	Two NCC platoons comprising of 71 cadets	35 cadets attended Annual training camp held in Roopnagar in the month of Oct where our college won first prize in cross country race and also won Cross Country Trophy by securing third position. Our cadets got first prize in cultural events, silver medal in shooting and third position in drill competition. - Five cadets attended trekking camp in Kerala - Four cadets attended National Shooting Camp - Five cadets attended NIC at Cuttack - Three cadets attended NIC at Amritsar 2 cadets attended Army attachment 12 cadets got “A” grade in NCC “C” certificate which makes them eligible for direct entry in the armed forces
2013-14		- Four cadets attended NIC camp in Amritsar where they achieved first position in Tug of war at the national level. - One cadet won a medal for the guard of honour where as another cadet was selected as best cadet in this camp 14 cadets attended ATC at Roopnagar where they achieved overall 1st position out of (colleges and further stood 1st in cross country running, 2nd in quiz competition, 2nd in obstacles and 3rd in volley ball.

2014-15	Two NCC platoons comprising of 71 cadets	Our cadets attended ATC at Roopnagar where they got 1st position in rill competition, 3rd in cross country running, 2nd in cultural competitions. One cadet got 3rd prize in shooting.
2015-16	Two NCC platoons comprising of 71 cadets	Our NCC Unit has be honoured with Best Contingent NCC by Chandigarh Administration at Independence Day Parade

Our college believes in promoting different spiritual and value based extension activities that are an integral component for the wholesome development of students. Therefore, the students are motivated to actively participate in NSS, NCC and other NGO related activities. The College runs two NSS units comprising of 200 volunteers and two NCC platoons comprising of 52 cadets each. Our college also has student volunteer group of under the aegis of the NGO “AAVAHAN” which plans various outreach programmes and events.

NCC

The College has been granted two NCC platoons comprising of 52 cadets each. At the starting of the session, the NCC Cadets are enrolled. During each session, an NCC cadet has to attend 30 parades and 96 periods for the award of certificate. It is mandatory for an NCC cadet to attend two camps during the three years of his stay in the college and participate in certain service attachments. Besides this, opportunities are also provided to participate in additional service training programmes like Republic Day Parade at Delhi, Basic and Advanced Leadership camps, etc. A complete catering kit and refreshments are also provided to the cadets.

- Roll of Honour is given to a cadet who participates in Republic Day Parade at New Delhi
- Certificate of distinction is given to a Senior Under Officer(SUO)
- Certificate of Merit is given to a cadet who attends more than two camps and also holds position(s) in the camp
- Additional 5% weightage is given to the students for admission to higher class for students having NCC “C” certificate.

NSS

The College has two NSS units for men and women consisting of 100 volunteer each. Each year the NSS activities start in the month of August with the orientation camps for the newly inducted volunteers. In the orientation camps, the students are encouraged to do community service by participating in constructive extension work in slums and backward villages. Students of all classes are eligible for enrolment in NSS. In order to successfully complete the NSS programme, each volunteer is required to put in 120 hours of work during one session and is required to attend special annual camp. The college organises camps during autumn and winter breaks. Enthusiastic volunteers are selected for training by NSS directorate. The

college recognizes their contribution and awards them with Certificate of Distinction. College colour is given to Chief Volunteer (boys) and Chief Volunteer (girls).

SPIRIT INDIA

Each year new volunteers are inducted during the introductory session of Spirit India. The students are apprised of the various programmes undertaken under Spirit India. Spirit India organizes its annual function every year to facilitate the members for volunteering their services throughout the year for various social projects. Various prominent personalities are invited to facilitate the meritorious students of our college who distinguish themselves in community service.

3.6.6 Give details on social surveys, research or extension work (if any) undertaken by the college to ensure social justice and empower students from under-privileged and vulnerable sections of society?

- NSS volunteers conducted survey in Bapudham Colony and Dhanas to identify educated youth to help them find jobs in the retail sector. The survey was the part of the National Urban Livelihood Mission (NULM) of the UT administration, Chandigarh in collaboration with local NGO BTGT. These students were provided with free training in communication skills and retail and marketing skills.
- To empower the students from underprivileged and vulnerable section of our society, the college grants funds from GGDSD College Society for smooth functioning of B.R. Ambedkar School. The students who pass out from this school are also offered free education in our college.
- The College runs Kaushaliya Devi Verma Charitable institute to empower women from marginalized section of society. Till date, around 860 women have received certificates in embroidery and cutting and 665 women have completed the course in cosmetology.
- The College provides scholarships and concessions to the financially weak and meritorious students, scholarships amounting to Rs 25, 00,000. The college has the facility of book bank for providing free books to the deserving students

3.6.7 Reflecting on objectives and expected outcomes of the extension activities organized by the institution, comment on how they complement student's academic learning experience and specify the values and skills inculcated.

The extension activities prepare students to become responsible citizen and help them understand their commitment to society.

- Lectures and workshops by social scientists, and professionals from prestigious institutions help student develop critical thinking to understand various social political and economic issues in and around the world.
- The extension activities by NSS volunteers and NCC cadets help in the all round development of student and make them aware of social needs of the society. Almost every year our students join the armed forces after acquiring NCC 'C Certificate'.

- Camps organised by NCC and NSS help the students evolve as better citizens as they learn various softskills such as teamwork, leadership skills and working against deadlines.
- The Cultural programmes organised by the college help to impart national and community values.
- Outdoor camps such as eye check-up camps, dental check-up camps, and blood testing camps organised by the student help them understand the problem faced by the local community and inculcate a spirit of community service amongst them.

3.6.8 How does the institution ensure the involvement of the community in its reach out activities and contribute to the community development? Detail on the initiatives of the institution that encourage community participation in its activities.

Our college plans various activities, which makes a small but significant contribution to the upliftment of local community

- Every year a blood donation camp is organised in the memory of our revered Pt. Mohan Lal Ji with the support of Government Medical College, Sector 32, Alumni Association of the college and Lioness Club, Panchkula.
- Our volunteers participate in the various campaigns organised locally where they generously donate clothes and eatables to be distributed among the underprivileged section of the society.
- For the upliftment of economically weaker women, the college has Mrs. Kaushaliya Devi Verma Charitable Institute for Women, which conducts six-month and one-year long courses in cutting and tailoring, embroidery including professional machine embroidery, cosmetology and beauty culture and computer training.

3.6.9 Give details on the constructive relationships forged (if any) with other institutions of the locality for working on various outreach and extension activities

Financial Support to Dr. B R Ambedkar School

The GGDSD College Society extends generous support to **Dr. B R Ambedkar School run by the NGO- Citizen Association of Relief and Education Services (CARES) in Janta Colony, Naya Gaon**. Our college students enrolled as **SPIRIT INDIA** volunteers of NGO Aavahan make a significant contribution towards the overall development of all these underprivileged children. In order to impart knowledge and skills, various activities in art and craft, communication skills, moral values and healthy habits are organized frequently. Festivals like Rakhi, Diwali, and special days like Independence Day, Teachers Day and Republic Day are also celebrated with these underprivileged children.

3.6.10 Give the details of awards received by the institution for extension activities /contributions to the social/community development during the last four years.

2015

- The Documentary film “Ankahi Ansuni” produced by our students was nominated in 7th Jaipur International Film Festival (JIFF). This documentary highlights the plight of Band Players at wedding ceremony.

2014

- The college was nominated under “India Road Safety Mission Awards, 2014” by Maruti Suzuki.
- The college won Certificate of Excellence for its documentary “Mrig Trishna” in Indian Cine Festival Mumbai. This documentary highlights the problem of drugs in the state of Panjab.
- Certificate of Excellence for “Ankahi Ansuni” in 3rd Bangalore Short Film Festival, at Bangalore.

2012

- Documentary Film “Promises/ Vicchora (on Honour Killing)” has been nominated in 3rd Jaipur International Film Festival (JIFF).
- The film “Mrig Trishna” has been nominated in 3rd Jaipur International Film Festival (JIFF).

2011

- “Spirit India” the voluntary organization of college received copyrights for the social project “Spirit India” “Spirit Divine”.

2010

- Mrs. Meera Sharma, Associate Professor (Department of English) received Certificate of Appreciation under the Sarv Siksha Abhiyan by UT Administration.
- The documentary “Siskiyan” based on the cancer belt along the Malwea Region of Punjab was nominated in 2nd Jaipur International Film Festival (JIFF).
- The documentry “Kargil-Lest we forgot” was nominated in 2nd Jaipur International Film Festival (JIFF).

3.7 Collaboration

3.7.1 How does the institution collaborate and interact with research laboratories, institutes and industry for research activities. Cite examples and benefits accrued of the initiatives – collaborative research, staff exchange, sharing facilities and equipment, research scholarships etc.

The college faculty regularly interacts and share their views and experiences with faculty/researchers from other colleges/universities /Institutes in various conferences/workshops/seminars organized by college or other institutes.

Collaborative research

The faculty has developed extensive collaboration in research programme with the faculty from following Institutes.

- Department of Biotechnology Panjab University Chandigarh

- Department of Biophysics, Panjab University Chandigarh
- PEC Chandigarh
- Department of Biotechnology ,SGGS College Chandigarh
- Department of Physics, Panjab University Chandigarh
- Florida A& M University, Florida, USA
- Department of Commerce, Punjab Technical University Jalandhar

Staff Exchange

To keep pace with the demand of global standards, the College has collaborated with Indo-Canadian Education Society (ICES) and University of Fraser Valley (UFV) for faculty training and development and faculty exchange programme.

Sharing Facilities & Equipment

The college administration provides all support to the faculty to develop collaborative research programme and also helps in getting permissions for use of Infrastructure of other research laboratories. The students from Panjab and Punjabi University are using the instrumentation software & database facility of various Departments

3.7.2 Provide details on the MoUs/collaborative arrangements (if any) with institutions of national importance/other universities/ industries/ Corporate (Corporate entities) etc. and how they have contributed to the development of the institution.

MoUs/ Collaborative Arrangements

- National Stock Exchange of India Limited
- Indo Canadian Education Society and University of Fraser Valley
- Teach a Child foundation
- HPMC Limited, Parwanoo
- Galactic Infotech Solutions Pvt Ltd, Mohali
- Central Poultry Development Organization, Chandigarh
- Gauri India Pvt Ltd,
- Innovation Designs New Delhi
- S K Clinical Laboratories Chandigarh
- Big Bazar, Future Group
- Metro Cash and Carry Stores, Zirakpur
- National Institute of Electronics and Information Technology, Mohali
- Panjab Dairy Development Board, Chandigarh
- EyesPat Training Institute, Chandigarh
- Tata Consultancy Service-TCS iON

The college has signed various agreements, letter of support with companies, institutes, universities for the growth and development of the institute including curriculum development, training and guidance for placement of students.

3.7.3 Give details (if any) on the industry-institution-community interactions that have contributed to the establishment /creation/up-gradation of academic facilities, student and staff support, infrastructure facilities of the institution viz.laboratories / library/new technology /placement services etc.

Periodically the college conducts various programmes with intellectuals from Industry and Institutions with focus on strengthening knowledge and research aptitude among the students and teaching staff. Guidance of experts has helped the college to upgrade research infrastructure and development of new course including

- New courses of DMLT, B.Voc (Retail Management), B.Voc (Food Processing and Preservation), B.Voc (Hardware and Maintenance) B.Voc (Agribusiness), B.Voc (Fashion technology and Apparel designing)
- Regular Faculty development Programme in collaboration with UFV Canada
- Procurement of E resources in Library

3.7.4 Highlighting the names of eminent scientists/participants, who contributed to the events, provides details of national and international conferences organized by the college during the last four years.

Resource Person (International)

- Professor Ashok K Vijh, Maître De Recherche Research Institute of Hydro Quebec, Montreal, Canada.
- Dr. Gurpreet Singh Department of Material Science, Bresecia University, Italy.
- Dr. Vinay K Chaudhary, Programme Director Artificial Intelligence Centre Stanford Research Institute, California, USA.
- Dr. Wendy Borton, Director, Teaching and Learning UFV, Canada.
- Mr. Raymonde Tickner Faculty of Access and Continuing Education, UFV, Canada
- Prof. Suzan Beattie, Lawyer and Certified Coach, facilitator and Professional Speaker, UFV, Canada.
- Dr. Maureen Wideman, Director of teaching and learning, UFV, Canada.
- Dr. Ashwani Chauhan, School of Environment Science, Florida A&M University Florida.
- Dr. Ratna Ghosh Prof & Dean Education McGill University Montreal Canada.
- Dr. Peter Geller, Vice-Pro vost & Associate Vice President Academic UFV, Canada
- Dr. Jacqueline Nolte Dean College of Arts UFV, Canada.
- Dr. Tracy Ryder Glass Dean Professional Studies UFV, Canada.
- Dr. Mark Evered Vice Chancellor UFV, Canada.
- Dr. Shyam Vyas Ex Professor, Weston Illinois University, USA.

Resource Person (National)

- Prof. Arun Grover, Vice Chancellor, Panjab University, Chandigarh.
- Prof R.C Sobti Vice Chancellor, Central University, Lucknow.
- Dr. R.Kohli, Vice Chancellor, Central University, Panjab.
- Dr. Rakesh Tuli, Executive Director, NABI, Mohali.
- Prof. Satya Prakash Former Vice-Chancellor, Jiwaji University, Gwalior.
- Dr. Pawan Kapoor, Director, CSIO, Chandigarh.
- Dr. V.P. Kamboj, Chairman BCIL, New Delhi.

- Prof S.S Gill Former Director-General CRRID Chandigarh.
- Dr. Rajender Singh Sangwan CEO, (CIAB), Mohali.
- Dr. J.K. Arora, Additional Director PSCST, Chandigarh.
- Dr. S S Marwaha, C EO, Punjab Biotech Incubator, Mohali.
- Prof. Ashok K Ganguli Director - INST, Mohali.
- Dr. N. Sathyamurthy, Director ,ISSER, Mohali, Panjab.
- Prof.M. K. Surappa, Director, IIT Ropar,Panjab.
- Dr. A. Bhachhawat Dean R&D,IISER Mohali.
- Dr. V.C. Kalia Sr. Principal Scientist IGIB, New Delhi.
- Dr. U.C. Banerjee Head, Pharmaceutical Technology NIPER, Mohali.
- Dr. B. S. Bhoop Dean Faculty of Sciences Panjab University, Chandigarh.
- Dr. T.C. Bhalla Coordinator Department of Biotechnology, H.P. University.
- Dr. V.K. Joshi Head, Dept. of Post Harvest Technology Dr. Y.S. Parmar University of Horticulture, Solan.
- Prof Raj S Dhankar, Dean, Faculty of Management Studies, Delhi University.
- Professor Ashwani Aggarwal, Chairman of the Department of Ancient Indian History, Culture and Archaeology, Panjab University , Chandigarh.
- Dr. Subhash Sharma, Director, Academic Staff College, GNDU, Amritsar.
- Prof. Sudhanshu Bhushan ,Head, Dept of Higher and Professional Education, National University of Education Planning and Administration, New Delhi.
- Dr. Naidu Subbarao, School of Computational & Integrative Studies, JNU, New Delhi.
- Dr. G P S Raghava Head Bioinformatics CentreIMTECH Chandigarh.
- Dr. Debendra K. Sahoo, Chief Scientist, BERPDC IMTECH Chandigarh.
- Dr. Sajeew Puri Coordinator, Centre for Stem Cell & Tissue Engineering PU, Chandigarh.
- Dr. Jasbir Singh Chairman, Dept. of Biochemistry Kurukshetra University.
- Prof. Harish Karnick, Department of Computer Science and Engineering, IIT Kanpur.
- Dr. Suresh Sharma Coordinator, System Biology & Bioinformatics PU, Chandigarh.
- Dr. RupinderTewari Dean Sciences , Panjab University, Chandigarh.
- Dr. C.R. Suri, Chief Scientist IMTECH, Chandigarh.
- Dr. G. S. Prasad Incharge, MTCC, IMTECH, Chandigarh.
- Dr. NeenaHead Dept. of Biotechnology Panjab University, Chandigarh.
- Dr. ShashiRawat Senior Scientist &Incharge AKMU, CPRI, Shimla.
- Dr. G.S. Kochar Professor Department of Microbiology PAU, Ludhiana.
- Dr. Duni Chand Chairperson ,Dept. of Biotechnology HP University, Shimla.
- Dr. Rekha, Chaturvedi Formerly Scientist G & Head IPR Cell & PME Div., CSIR-IGIB.
- Mr. ML Sharma Ex Incharge, Electro microscopic Panjab University.
- Dr. Ashish Ganguly, Senior Scientist IMTECH, Chandigarh.
- Dr. S.S.Bari, Dept. of Chemistry PU, Chandigarh.
- Dr. G.S Batra, School of Management Studies, Punjabi University, Patiala.
- Dr. Hardeep Singh, Prof, Dept of Computer Science & Engg. GNDU Amritsar.
- Prof. Prince Sharma Professor, Dept. of Microbiology Panjab University.
- Mr. Rahul Taneja, Scientist, Haryana State Council for Science and Technology.

- Dr. Rakesh Singh Dhanda, Department of Translational and Regenerative Medicine, PGIMER, Chd.
- Prof. M S Reddy Head , Department of Biotechnology, Thapar University.
- Dr. Manoj Kumar Head CSE, Ambedkar Institute of Advanced Communication Technologies and Research, Delhi.

3.7.5 How many of the linkages/collaborations have actually resulted in formal MoUs and agreements? List out the activities and beneficiaries and cite examples (if any) of the established linkages that enhanced and/or facilitated.

a) Curriculum development/enrichment

b) Internship/ On-the-job training

c) Summer placement

d) Faculty exchange and professional development

e) Research

f) Consultancy

g) Extension

h) Publication

i) Student Placement

j) Twinning programmes

k) Introduction of new courses

l) Student exchange

m) Any other

a) Curriculum development/enrichment:

Curriculum development of DMLT, BVoc (Retail Management), B Voc (Food Processing and Preservation), B.Voc (Computer Hardware & Networking) B.Voc (Agri Business. and Agrarian Entrepreneurship), B.Voc (Fashion & Apparel Designing). Letter of support from Association of Microbiologist of India (Chandigarh Chapter) to provide guidance for workshops/training and seminars.

For example

- 10 days workshop “ From Petriplate to Bioreactor” was organized in collaboration with AMI (Chandigarh Unit).
- COSMID 2015 Inter college Competition organized in collaboration with AMI Chandigarh Unit.

b) Internship/ On-the-job training

The college students are undertaking training programmes in collaboration with HPMC Limited, Parwanoo, Galactic InfoTech Solutions Pvt Ltd, Mohali, Central Poultry Development Organization, Chandigarh, Big Bazar, Future Group, Metro Cash and Carry Stores, Zirakpur and EyesPat Training Institute, Chandigarh.

c) Summer placement

Through the Industrial linkages developed, the college has been able to arrange the part time placement for the students during the summer vacations in the organizations like Big Bazaar, Metro Cash and Carry, Decathlon, Pantaloon etc.

d) Faculty exchange and professional development

University of Fraser Valley Canada: Dr. Bhushan K. Sharma and Mr. Gagandeep Sharma visited UFV under faculty exchange programme.

e) Research

College faculty is jointly guiding research students of Panjab University, MM University, Mullana, PTU Jalandhar, PEC Chandigarh and Shoolini University Solan.

f) Consultancy

NIL

g) Extension

The college student voluntary organization Spirit India is having collaboration with an NGO AAVHAN which is carrying out various extension activities for the community development. The college is having agreement with NGO Citizen Association of Relief and education Services in running Dr. B.R Ambedkar School at Naya gaon.

h) Publication

The college faculty is carrying out research in association with various Institution/ Universities in India and abroad. This collaborative research work has been published in various reputed National and International Journals.

i) Student Placement

There is no formal MoU with the companies for the student placement however the college Placement Cell is carrying out regular interactive sessions with various companies for the possible placement of students.

j) Twinning programmes

Nil

k) Introduction of new courses

DMLT, BVoc (Retail Management), B Voc (Food Processing and Preservation), B.Voc (Computer Hardware & Networking) B.Voc (Agri Business. and Agrarian Entrepreneurship), B.Voc (Fashion & Apparel Designing).

l) Student exchange

The Government of British Columbia, Canada has offered scholarship worth \$3000 to two of our BBA students for practical training of two months at Abbotsford, Canada.

CRITERION IV: INFRASTRUCTURE AND LEARNING RESOURCES**4.1 Physical Facilities****4.1.1 What is the policy of the institution for creation and enhancement of infrastructure that facilitate effective teaching and learning.**

The college always makes an effort to create and enhance the infrastructure, which is particularly suitable to the process of effective teaching and learning by laying stress on establishing more and smarter classrooms, seminar halls, latest software, equipments etc. A new software TCSiON is a very progressive step in this regard. Through this, daily attendance, marks etc. are provided on –line to the students and their parents. which ensures punctuality and regularity amongst them. The availability of facilities like OPAC, INFLIBNET N-LIST, EBSCO, in a completely well equipped digital library adds to another value addition to this growth. The Learning Exchange Solution of TCSiON is an effective tool in helping faculty share and upload e-content and other relevant information regarding the academics.

4.1.2 Detail the facilities available for

a) Curricular and co –curricular activities – classrooms, technology enabled learning spaces, seminar halls, tutorial spaces, laboratories, botanical garden, Animal house, specialized facilities and equipments for teaching , learning and research etc.

b) Extra –curricular activities- sports, outdoor and indoor games, gymnasium, auditorium, NSS, NCC, cultural activities, public speaking, communication skills development, yoga, health and hygiene etc.

a) Curricular and co –curricular activities**1) Class Rooms****Table 4.1**

S.No.	Faculty	No. of General Classrooms	Smart Class Rooms	Total
1	Arts	32 [*]	05	37
2	Commerce and Management	14 ^{**}	13	27
3	Science	26	03	29
4	IT	03	-	03
Total		75	21	96

* Faculty of Arts shares with Faculty of Science.

** Faculty of Commerce and Management shares with Faculty of Arts.

Technology Enabled Learning Spaces:

Modern age is the age of technology so college always strives to provide effective teaching through the use of modern technology, available in smart classrooms.

Table 4.2

S.No	Faculty	Technology Enabled Spaces (Smart Class Room)	Seminar Halls	Total
1	Arts	05	04*	09
2	Commerce and Management	13	-	13
3	Science	03	04	07
4	IT	08 (Labs)	-	08
Total		29	08	37

*Faculty of Arts shares with Faculty of Science.

Computers**Table 4.3**

S.No	Faculty	No. of Computers	No. of i7 & i5 Computer	UPS	Wi-Fi
1	Information Technology	300	i5=30, i7=120	03	Yes
2	Commerce and Management	-	-	01	Yes
3	Science	98	i5=31, i7=31	16	Yes
4	Arts	40	-	03	Yes
5	Library	60	i5=21, i7=11	1	Yes
6	Administrative Block	11	i5=04	02	Yes
7	Principal's Office	01	-	-	Yes
8	Society Office	05	i5=01	02	Yes
9	Reception	01	-	-	Yes
10	IQAC	01	-	-	Yes
11	Faculty Room No 8	01	-	1	Yes
12	Controller of Exams Room	01	-	-	Yes
13	Registrar Room	01	-	-	Yes
14	Faculty room no. 3	01	-	-	Yes
15	BBA Server Room	01			
16	Room no. 18,19,21,23,25	05	-	-	Yes
17	Hostel - Boys and Girls	15	-	02	Yes
18	Microsoft Lab	32	-	-	Yes
TOTAL		574	i5=87, i7=162	31	

Seminar Halls**Table 4.4**

S.No	Name of the Faculty	No. of Halls
1	Arts	04
2	Science	04

Tutorial spaces

The tutorials are held in class rooms clearly allocated in the time table .The faculty also has individual cabins where the students can approach them for any guidance.

Laboratories: Total 49

Table 4.5

S.No.	Lab Name	Number
1	Bioinformatics	03
2	Biochemistry	02
3	Biotechnology	03
4	Microbiology	01
5	Instrumentation Lab	02
6	Plant tissue culture	01
7	Biotech Research Lab	01
8	Bioinformatics Research Lab	01
9	B.Voc Lab	01
10	Physics	06
11	Zoology	02
12	Botany	02
13	Information Technology	08
14	Music	01
15	Psychology	02
16	Functional English, Journalism and Mass Communication	02
17	Fashion Designing	01
18	Kaushaliya Devi Verma Institute	02
19	Chemistry, Industrial Chemistry, Applied Chemistry (Pharmaceutical)	07
20	Statistics	01

Botanical Garden

Adjacent to Botany Department there is a Botanical Garden. Large number of species of medicinal and ornamental plants of different plant groups viz. Pteridophytes, Gymnosperms and Angiosperms are well maintained.

Specialized Facilities and Equipments for Teaching Learning and Research Equipments

The details of department of the facilities and equipment for teaching, learning and research in the departments of Biotechnology, Biochemistry, Bioinformatics & Microbiology

Table 4.6

S. No.	Equipment Name
1	Cold Room Facility
2	RT-PCR
3	2D Gel Electrophoresis
4	Fluorescent Microscope
5	-80 degree Freezer
6	-40 degree Freezer
7	-20 degree Freezer
8	Sonicator
9	Biosafety cabinet
10	Cooling Centrifuges
11	AKTA Prime Protein Purification System
12	Ice-flaking Machine
13	Thermal Cycler
14	Gel Documentation System
15	Photomicroscope
16	Refrigerated Shakers
17	Water Purification System
18	Electrophoresis Apparatus
19	ELISA Reader
20	Laminar flow Cabinets
21	UV visible Spectrophotometer
22	Inverted Microscope
23	Electronic weighing Balances
24	Software with Department of Bioinformatics
	DNA STAR
	Discovery Studio
	Gaussian 9W & Gauss View
	MINITAB
	HyperChem 8.0

Department of Botany

S.No.	Equipment Name
1	Electronic Balance
2	Microtome Accessories
3	Dissolved oxygen Apparatus
4	Spectrophotometer
5	Accessories of Plant Aquarium
6	Cavity Plates
7	Research Microscopes
8	Museum Specimens
9	Carbon Dioxide Cylinder with Regulator
10	Display Plates for Museum
11	Compound Microscopes
12	Herbaria
13	Ecomuseum

14	Large number of books in Botany , Environmental Sciences and Economic Botany

Department of Zoology

S.No	Equipment
1.	Refrigerator
2.	Water Bath
3.	Centrifuge
4.	Electric Balance
5.	Simple Balance
6.	Microtome Machine
7.	Student Microscope
8.	Stereoscopic Microscope
9.	Research Microscope
10.	Binocular Microscope (Small)
11.	Binocular Microscope (Big)
12.	Dissection Microscope
13.	Aquarium (Fresh Water)
14.	Aquarium (Marine Water)
15.	Sphygmomanometer (BP Apparatus)
16.	Stethoscope
17.	Transparency Microscope
18.	Wall Clock
19.	Hot Plate
20.	Autoclave
21.	Laminar Flow Hood
22.	Colorimeter
23.	pH meter
24.	Magnetic Stirrer
25.	Vortex Mixer
26.	Gel Electrophoresis (Vertical)
27.	Water purification system
28.	Over Head Projector
29.	Air Conditioner (Samsung)
30.	Spectrophotometer
31.	Incubator
32.	Bio Fermenter
33.	Egg Incubator
34.	L.E.D
35.	DVD Player
36.	Trinocular Microscope

Department of Chemistry

S.No	Equipments
1	Perkin Elmer LC-GC Chromatography with computational backup
2	UV Visible double beam Spectrophotometer with computational backup
3	FT-IR Spectrophotometer with computational backup
4	Agilent HPLC with computational backup
5	Ultrasonic cleaner bath
6	Microwave synthesis system
7	Fuming Hoods
8	Water Aspirator (Eyela)
9	Digital Polarimeter ACM-WSC-010 No.1303-1174
10	UV-Visible single beam Spectrophotometer
11	Labindia 'MEPA' melting point apparatus
12	Digital flame photometer with auto ignition
13	Analytical balance CPA-225D (0.01mg)
14	Analytical balance CPA-223 (0.1mg)
15	Rotary evaporator
16	Ice Flaking Machine
17	Water bath incubators
18	Digital pH meter
19	Digital Conductometer
20	Digital potentiometer
21	Fire Extinguishers
22	Deionization Apparatus
23	Microprocessor controlled Water bath
24	Microprocessor pH-meter
25	Analytical Electronic Pan balance
26	Abbe's refractometers
27	Digital Spectrophotometers
28	Digital Photocolorimeters
29	Digital melting point apparatus
30	Bomb Calorimeter
31	Venturimeter Rig
32	Pressure Drop Packed Bed
33	Natural Convention Rig
34	Forced Convention Rig
35	Orifice meter Rig
36	Reynold's Apparatus
37	Bernoulli's Apparatus
38	Vacuum Pumps
39	Redwood Viscometer
40	Genei Vertical Midi Gel System
41	Genei Midi Sub Marine System
42	Furnace
43	Oven
44	Digital Dissolution Rate Test Apparatus
45	Disintegration Apparatus
46	Fluorimeter

Department of Information Technology

S.No.	Name of the Item	Description
1	Computers	300
2	UPS	3 (20 KVA , 20 KVA & 10 KVA)
3	Lease Line	100 Mbps Lease Line of Reliance
4	Wi Fi	12 Access Point outdoor unit 03 Access Point indoor unit 01 Controller Cisco based (Served in Entire Campus Including the IT Dept.)
5	LAN (Local Area Network)	Back Bone is on Fiber Cable and Managed with Manageable Switches of Cisco behind fire wall
6	CCTV	IT Dept is on CCTV Surveillance. With IP based Secure Cameras
7	Software	Oracle, C/C++, Linux, Microsoft Cloud Agreement, Photoshop, Coral Draw, Anti Virus, MAX Studio Max, Gif Animator.
8	IPBX	Intercom System is running in the Dept. with PRI Line.

Department of Psychology

S.No	Name of item
1	Electronic Depth Perception Tester
2	Photo Electric Rotary Pursuit
3	Audio Visual Reaction Time
4	Digital Flicker Fusion
5	Digital Memory Scope
6	Digital Mirror Tracking Apparatus
7	Differential aptitude test battery
8	Career Preference Record
9	Sodhi Attitude Scale
10	Adjustment Inventory for college Students
11	Aggression Scale
12	Adaptation of WAIS
13	L.N.Dubey Problem Solving Ability
14	History and development of Indian Education
15	Skinner Box
16	Apparent Movement
17	Development Screening Test
18	Coloured Progressive Matrice
19	Group Test of General Mental Ability
20	Comprehensive Interest Schedule
21	Judging Emotion by Photographs
22	Eyesenck Personality Inventory
23	Depression Inventory
24	Psychology Counseling Need Scale
25	Diagnostic Test For Learning Disability
26	Personal Stress Sopurce Inventory
27	PGI Health Questionnaire

28	IPAT Anxiety Scale
29	Tachistoscope Electronic
30	Division of Attention Board
31	Stop Watch digital Racer
32	Level of Aspiration
33	Jalota Intelligence Test
34	Deo Mohan Achievement Motivation
35	Self Concept By Saraswat
36	PGI Health Questionnaire
37	IPAT Anxiety Scale
38	Personal Stress Source Inventory
39	Judgement of Emotions by Photographs
40	Adjustment Inventory for College students
41	Eyesenck Personality Questionnaire
42	Davis Battery for Differential Aptitude
43	Reynold Depression Scale
44	Levenson Locus of Control
45	Aesthesiometer
46	Alexander Pass Along

Department of Physics

S.No	Items
1	Ammeter (AC, DC, Ma,micro A)
2	Boilers (Cu)
3	Battery Eliminator
4	Physical Balance
5	Drawing Board
6	Campass
7	Galvanometer
8	Hanger
	500g each
	50g each
9	Key
	One way
	Two way
	Four way
	Reversing
	Tapping
	Morse
10	Canvex Lens
11	Magnets
12	Meter Scale (Wooden)
13	Optical Banch
14	Prism
	Hollow
	Glass

	Calcite / Quartz
15	Resistance Coil
16	Resistance Box
17	Sonometer
18	Spherometer
19	Stop Watch
	Digital
	Clock
20	Slotted Weights
	500g each
	50e each
21	Tuning Fork
22	Telescope with stand
23	Voltmeter (AC, DC,Mv)
24	Vernier Calliper
	Small
	Large
25	Weight Box
26	Rheostat
27	Stand with clamp
28	Thermometer
29	Potentiometer
30	Dip circle
31	Spirit level
32	Microscope
	Travelling
	N.ring
33	Spring Balance
34	Circular, straight, force conductor
35	Charging discharging capacitor
36	Interference by
	Double slit
	Polaroids
37	Equipotential lines of force
38	M.I (three different shape)
39	Junction diode
40	L.C.R
41	Battery holder
42	Electrostatic kit for coulomb's law
43	Capacitor plate
44	Bar Pendulum
45	Jager's Apparatus
46	Callender and barnie Apparatus
47	Maxwell needle

48	Multimeter
49	Barometer
50	Graduated cylinder
51	Audio oscillator
52	function Generator
53	Lee's disc
54	Search coil
55	Electrical vibrator
56	Soldering Iron
57	Lamp and scale arrangement
58	Kelvin's double bridge
59	Condenser
60	One dimensional collision
61	Resistance Boxes (variable)
62	Probability Apparatus
63	Transformer
64	Energy meter kit
65	Anderson's Bridge
66	De - Sauty Bridge
67	Solenoid Apparatus
68	Head Phone
69	Ballistic Galvanometer
70	PN junction diode
71	CRO
72	Cantilever with stand
73	Kude's tube
74	Slit for resolving power of telescope
75	Spectrometer
76	Nodal slide assembly
77	Sodium Lamp
78	Mercury Lamp
79	RC couple amplifier
80	Falling plate method
81	Diffraction grating
82	Bi- prism
83	Sextant
84	Inductance Coil
85	Poisson's ratio apparatus
86	Viscosity using lead shot
87	Earth inductor
88	Coefficient of expansion of various liquids
89	Trode value apparatus
90	Fly- wheel
91	Generator (Birla Yamaha) (Hostel)

92	B-H curve apparatus
93	Planck's constant apparatus
94	Flashing and quenching
95	Photovoltaic Cell
96	Murcury
97	Polaimeter
98	V.T.V.M
99	Ionization potential of Hg
100	Millinkon's oil drop apparatus
101	S.C.R
102	Operational amplifier
103	Keter's pendulum
104	E.M.I
105	Measuring tape
106	Thermo V.shape
107	Tool kit
108	inverse Square Law
109	Cary foster bridge
110	Magnifying glass
111	Electrical kettle with variable power supply
112	Transistor characteristic apparatus
113	Clements and desorms
114	Bi- prism assembly with optical bench
115	Searl's apparatus (good condutor)
116	Partraits of Scientists
117	Hydrogen apparatus
118	Black body radiation
119	Hall effect (Complete set)
120	Idine tube set
121	Multivibrator kit
122	Laser source
123	Four probe set up
124	Magnetic susceptibility apparatus
125	Inductance board
126	Work function
127	Biasing of transistor
128	F.E.T
129	Themistor characteristics
130	Rectifier (Full / halfwave)
131	E/M solenoid with power supply
132	C.E amplifier
133	Energy gap apparatus
134	Zener diode
135	Low pass / high pass filter

136	B.J.T
137	Amlifier diode
138	Mega ohm resistance
139	Screw Gauge
	Small
	Large
140	Current amplification transistor
141	Photo cell demonstrator
142	Table lamp
143	Walk clock
144	G.M counter (complete)
145	Thermal expansion of crystal
146	Laptop
147	Computer monitor
148	Power adaptor
149	U.P.S.
150	Electric heater
151	Diode clipper
152	Knife edge / Magnifier
153	Rubber tubing
154	C.V.T
	500A
	250A
155	Electrical balance
156	Electrical kit
157	Logic gates
158	Banana plugs (with leads)
159	Inductances
160	Newton's ring apparatus
161	Analogue trainer (Circuit bread board)
162	Almirah
163	Meld's apparatus
164	Viscosity (Poiseuille stoke's method)
165	Torsion pendulum
166	Stephen's constant
167	Dielectric constant kit
168	Optical fiber kit
169	Bending of Beam
170	Intracive Panel AHALTM
171	Visulizer Lumans
172	Sony Projector
173	Meeting pads
174	Uli Adaptor
175	D.S.O

176	Diode charactict trainer
177	Op- Amplifier trainer
178	Rectifier trainer
179	Voltage Regulator
180	Diode Clipper Clamper
181	Op- Amplier and Active filter
182	Ultrasonic interferometer
183	Astable Multivibrator
184	Digital LCR Meter
185	A.M Receiver
186	Hartley and collipit oscillator
187	CB / CE transistor
188	Diode Charactist
189	Power supply (Voltage Regulator)
190	Cliper / Clamper kit
191	Themister Charactist
192	phototransistor Charactist
193	Volage doubler / tripler trainer
194	ESR App.
195	Dielectric constant
196	Frank Hertz Exp.
197	Geiger Constant
198	Chemicals
199	Linear air track
200	Digital trainer
201	Additional Photo sensor
202	Coupled Oscillator system
203	Compound Pendulum
204	Normal modes and dispreesion in a beaded system
205	Two - strip mechanical system
206	Laser differaction kit
207	Model for solid structure
208	Anharmonic integrating
209	R C Differation intergrating
210	Photo transistor
211	Mosfet char. App.
212	Distributed capacity of a coil

Department of Economics

S.No	Particulars	Details
1	Software	SPSS,MINITAB,SYSTAT
2	Faculty Room	01
3	Computers	02
4	Printer	01
5	Laptop	01

Department of Information Sciences

S.No	Particulars
1	Software: OPAC, INFLIBNET N-LIST, JAWS SCREEN, EBSCO, TCS ion, FULLY DIGITAL LIBRARY.

Department of Mass Communication & Journalism

Our classrooms/labs create new opportunities in teaching and learning by integrating computer, multi-media and network technologies.

S.No	Equipment
1	Windows PCs
2	G-V MAC PCs
3	Quark Express Software (Licenced)
4	Batch Watermark (Licenced)
5	Chroma Photo Pro (Licenced)
6	Final Cut Pro (i-MAC)
7	Sony Video Camera PD-170
8	Sony Tripod
9	Sony Battery Charger
10	Flood Lights
11	Camera Associated Audio Cables
12	Firewire
13	AV Wire (5m)
14	Audio Mixer
15	Amplifier-cum-Recorder
16	Ampli-Speakers
17	Column Speakers
18	Broadcast Microphones
19	Lapel Microphones
20	Audio Mixer Wires
21	USB to AUX wire
22	Refractor umbrellas
Classroom/Lab	
23	Smart classroom/Lab with LCD Projector and white board
24	Smart classroom/Lab with white board
25	Audio- Video Studio (for recording radio and editing)
26	Studio for rehearsal/research

Department of Fashion Designing

S.No.	Particular
1	Sewing machines
2	Interlock machines
3	Flat lock machines
4	Industrial Sewing Machine
5	Pattern Making Machine
6	Computerized Embroidery Machine
7	Female dress form
8	Female Mannequins
9	Kids Mannequins

Kaushaliya Devi Verma Institute for Women

S.No.	Particular
1	Sewing machine
2	Fashion maker machine
3	Embroidery machine
4	Interlock machine
5	Cutting table
6	Black board

b) Extra Curricular Activities**Sports**

Considering sports as an integral part of any educational institute, college works in its best way to offer a healthy and conducive environment to all its sports persons. College has a variety of games and sports to offer both indoor and outdoor.

Indoor games

College offers facilities of many indoor games like chess, table tennis, boxing, judo and badminton. The college provides table tennis tables, permanent boxing ring, permanent basketball court, a sports room for chess etc.

Table 4.7
Sports Facility Indoor

S.No	Name of the Sports	Facility	Area
1	Badminton	Yes	44x 20feet (3 Courts)
2	Table Tennis	Yes	Portable Table
3	Chess	Yes	1 Room
4	Yoga	Yes	Space available in Auditorium
5	Gymnasium/ Best Physique	Yes	Space available in Auditorium

Outdoor games

College also offers a wide range of outdoor games like netball, softball, ball badminton, baseball, korfbal, kho-kho, kabaddi, volleyball, cricket, archery, gatkan, football and yoga etc. for which college has a big ground. It also has a sports store especially meant to keep sports kits and equipments. There is also a well-equipped, well-ventilated sports room with a modern setup like computer, printer, internet, A.C. etc. A storeroom is also attached to it to keep the sports material of routine days ready for use.

Table 4.8**Sports Facilities Outdoor**

S.No	Name of the Sports	Facility	Area
1	Boxing Stadium	Yes	23 ft x 23 ft
2	Basket Ball	Yes	94 feet long and 50 feet wide
3	Ball Badminton	Yes	44 feet long 20 ft wide
4	Volley Ball	Yes	60 feet long by 30 feet wide.
5	Kho Kho	Yes	29x16 mtrs
6	Athletics	Yes	200 mtr track
7	Handball	Yes	40x20mtr
8	Netball	Yes	100x50 feet
9	Korfball	Yes	100x50 feet
10	Archery	Yes	Space Available in College Ground
11	Softball	Yes	300 feet
12	Baseball	Yes	300 feet

Gymnasium

Sports students of the college make a good use of the gymnasium provided in both the hostels. The physical education department also has a **modernwater sprinkling system** to water the sports ground. It also helps in conserving water.

Auditorium

There is a 125x80 feet state of the art, ultra modern, fully automated, fully air conditioned, touch screen operated auditorium with a seating capacity of up to 1000 persons in the college.

NSS

The college runs two NSS units for both men and women consisting of 100 members each. The NSS unit has a room(F24)dedicated especially for its use, it includes almirahs,furniture and a computer. The unit also has a store in the auditorium building.

NCC

The college has been granted 2 NCC platoons comprising 71 cadets each. The unit has one office-cum store, college grounds and auditorium for its numerous activities throughout the year.

Cultural Activities

In order to offer an effective platform to discover the hidden talent and artistic potential of the students, the college organizes a number of inter and intra activities and competitions every year. For this, spacious and well-suited places like auditorium, seminar halls, recreation hall, college grounds and parks etc. are provided to the students.

Public Speaking

In order to hone the speaking skills and the critical thinking of the students, many activities like declamation contests and debates are organized in the college for which auditorium, audio- video labs , seminar halls and recreation hall are used.

Communication Skills Development

The college works hard for a continuous chain of providing an over-all development to its students. In order to make the students well –versed with the communication skills many facilities like language lab, audio –visual studios and quark express software, microphones , speakers, audio –mixer are provided to them.

Yoga

In an attempt to inculcate the importance of yoga amongst students, the college organizes many yoga camps throughout the year. Physical education department of the college also teaches yoga to students. **Manasuday** a unique initiative of the college also offers meditation and yoga to the college students in its own building. In addition to this, the college uses auditorium, grounds and parks.

Health and Hygiene

In order to promote the health and hygiene in the campus, the college has outsourced cleanliness services. The services like medical room, filtered water are also given to students. For good mental health the college offers Manasuday services. The general tutorial system is also used to keep the students aware of the health and hygiene. The college also ensures good, clean and nutritious food to its students by having a strict quality control on hostel messes and canteens.

4.13 How does the institution plan and ensure that the available infrastructure is in line with its academic growth and is optimally utilized? Give specific examples of the facilities developed/ augmented and the amount spent during the last four years (encloses the master plan of the institution/ campus and indicate the existing physical infrastructure and the future planned expansions if any).

The essence of an Institution lies in its growth, both qualitative and quantitative. The infrastructural facilities must compliment academic pursuits. Major steps have been taken in this direction. These include setting up of smart classrooms, enhanced lab Facilities, latest equipments and softwares. Separate spaces for cultural and sports activities ,state of the art Auditorium, a well equipped Library, Gymnasium Hall, Botanical Garden and Health Center. So in this way the available infrastructure is totally in line with its academic growth.

Optimal utilization:

In order to cater to the needs of all the students, college tries to use the existing infrastructure in the best possible way so that complete utilization of the resources is made possible. For this, arts class rooms like 2,3,4,5,6,7,8,10,19,20,21,22,23,26,LT1 and LT2 are shared with science department . Similarly commerce and management class rooms 28, 36, 37, 45 are shared with arts. Likewise seminar halls are also used on interdisciplinary basis.

Table 4.9

Details of the amount spent during the last four years under various facilities:

Particular	Year	Infrastructure	Amount Spent	Total
Buildings	2011-12	Boundary Wall Building Gym Hostel, Building Arts & science Block, Girls Hostel, Building Science	4060136/-	46846896/-
	2012-13	Office Up gradation Building Gym Hall Building Renovation	1688507/-	
	2013-14	Smart Class rooms Boundary Wall	Rs 31,16501/- Rs 87,4033/-	
	2014-15	Boundary Wall Renovation in Different Blocks Stress Management Center	Rs 2517591/- Rs 2967899/- Rs 591663/- Rs 539761/-	
	2015-16	Buildings	Rs 30490805/-	
Equipment	2011-12	Science Equipment	Rs1699217/-	13426363/-
	2012-13	Labs (Science and IT)	Rs 1200408/-	
	2013-14	Labs (Science and IT)	Rs 3828911/-	
	2014-15	Labs (Science and IT)	Rs 839950/-	
	2015-16	Equipments	Rs 5857877/-	
Furniture	2011-12		Rs1791054/-	4076880/-
	2012-13		Nil	
	2013-14		Rs 121500/-	
	2014-15		Rs 697080/-	
	2015-16		Rs 1467246/-	
Parking	2011-12		Rs 132000/-	817099/-
	2012-13		Rs 150965/-	
	2013-14		Rs 174200/-	
	2014-15		Rs 192200/-	
	2015-16		Rs 167734/-	
Security	2011-12		Rs 69582/-	4913859/-
	2012-13		Rs 1214416/-	
	2013-14		Rs 1492292/-	
	2014-15		Rs 1074863/-	
	2015-16		Rs 1062706/-	

Water Facility and Electricity	2011-12		Rs 3041260/-	21711523/-
	2012-13		Rs3562902/-	
	2013-14		Rs 4978786/-	
	2014-15		Rs 5388229/-	
	2015-16		Rs 4740346/-	
New Courses	2014-15	B.Voc	Rs 5143818/-	Rs 5453309
	2014-15	DMLT	Rs 309491/-	
Grand Total				Rs 9,72,45,929/-

Table 4.10
Future Planned Expenditure

S.No	Particulars	Work to be undertaken	Cost	Status
1	New teaching block	9 rooms, 18 cabins plus basement	Rs. 1,70,00, 000	To be started
2	For cultural events	Open air theatre with sitting capacity of 700-800 persons	Rs. 1,00,00,000	To be started
3	Electrical load increase	New generator	Rs. 30,00,000	To be started
4	College automation	Wi-fi system of whole campus	Rs 12,00,000	To be started
5	Automation of library	RFID library management and security system.	Rs31,00,000 to be spent in two years	To be started
6	Automated Genset system	All generators in campus to be shifted to automated mode	Rs.10,00,000/-	To be started

4.1.4 How does the institution ensure that the infrastructure facilities meet the requirements of students with physical disabilities?

The college provides special care for physically disabled students in the form of providing separate ramps, separate toilets and a separate parking lot to these students. In addition to this ,their classes are held only on the ground floor.

4.1.5 Give details on the residential facility and various provisions available within them:

- a) Hostel facility- accommodation available
- b) Recreation facilities, gymnasium, yoga center, etc.
- c) Computer facility including access to internet in hostel.
- d) Facilities for medical emergencies.
- e) Library facility in the hostels
- f) internet and Wi-Fi facility
- g) Recreational facility –common room with audio-visual equipments.

h) Available residential facility for the staff and occupancy constant supply of safe drinking water.

i) Security

Table 4.11

S.No	Particular	Girls hostel	Boys hostel
1	Hostel facility- accommodation available	325	275
2	Recreation facilities, gymnasium, yoga center, etc.	Yes	Yes
3	Computer facility including access to internet in hostel.	Yes	Yes
4	Facilities for medical emergencies.	Yes	Yes
5	Library facility in the hostels	Yes	Yes
6	Internet and wi-fi facility	Yes	Yes
7	Recreational facility common room with audio-visual equipment	Yes	Yes
8	Available residential facility for the staff and occupancy, constant supply of safe drinking water.	Teaching=0 Non teaching=07	Teaching=02 Non teaching=03
9	Security	Yes	Yes

4.1.6 What are the provisions made available to the students and staff in terms of health care on the campus and off the campus?

The college, in an attempt to provide health care to both the students and staff members arranges both on the campus and off the campus facilities. For on campus facilities a medical room, two well qualified visiting doctors and one permanent pharmacist have been appointed and for off campus college has tie up with INSCOL hospital and the government hospital.

4.1.7 Give details of the common facilities available on the campus - spaces for special units like IQAC, Grievance Redressal Unit, Women's Cell, Counselling and Career Guidance, Placement Unit, Health Centre, Canteen, Recreational Spaces for staff and Students, Safe drinking water facility, auditorium, etc.

IQAC

As per the NAAC instructions, the college has established Internal Quality Assurance Cell that works towards realizing the goals of quality enhancement and sustenance. It has a well furnished office with all the modern facilities like computer and printers.

Grievance Redressal Unit

In order to offer the solutions to the varied problems of the student's grievance redressal unit has been established in the college. The unit with the installation of complaint cum suggestion boxes at various places in the college gathers the issues and resolves them accordingly.

Women's Cell

In order to give proper solution to the issues of the women a body named CCASH (College Committee Against Sexual Harrasment) has been established.

Counseling and Career Guidance

In an endeavour to help students deal with every day anxiety and stress, the college has provided 'Manasuday', meaning awakening of the mind. The facilities like one to one counseling, self instructional and motivational material is provided to individuals facing stress. For career guidance, seminar halls are used in order to make students aware of the latest career options. During the admission times career counseling is done in the auditorium.

Placement Unit

In order to facilitate the placements of the college students (from the general/vocational/professional streams) as well as the students of other colleges in the region, a dynamic placement cell has been established on the campus. In order to make the students aware of the current trends, extension lectures by professional consultants and experts from the corporate sector (reputed public and private organizations) are regularly organized. Over the previous few sessions, more than 70 reputed companies and banks have enlisted the students. For this unit, a well furnished office having modern facilities like computer, printer etc have been arranged. Apart from this the unit also uses seminar halls to conduct the interview sessions. The record of the placements in the college is given below-

Table 4.12
Placement Details 2014-15

S.No.	Name of the Company	Number of Students Participated	No. of students shortlisted (In campus)	No. of students shortlisted (Out campus)	Package Offered (Rs Lakhs/ annum)
1	Infosys Technologies	20	-	7	2.19
2	IBM Banglore	23	2	-	3.60
3	Indusind Bank	107	31	-	1.60
4	Z.S.Associates	136	4	-	4.20
5	AON Hewitt	6	-	-	2.3
6	Ernst Young	105	14	-	2.8
7	Naukri .Com	10	-	2	3.15
8	Godrej &Boycee	45	-	4	2.62
9	Lowe Lintas	60	8	-	2.4

10	CSC India	10	-	-	2.17
11	Infosys Technologies	8	-	-	2.19
12	Sap Bangalore	10	-	2	3.0
13	Tech mahendra	5	-	-	1.90
14	HCL Technologies	6	-	-	2.75
15	I Gate	3	-	-	2.25
16	Neuro Softech Ltd.	51	13	-	1.8
17	Jaro Education	35	10	-	5.46
18	E Clerx	55	17	-	1.62
19	IBS , ICFAI	25	6	-	1.8
20	WIPRO Technologies	56	23	-	6.0
21	HDFC Bank	5	-	2	3.5
22	IBM India	10	-	2	2.10
23	Bharti Airtel	8	-	1	3.0
24	FINVASIA	45	4	-	3.0
Total		844	132	20	

Placement Details 2013-14

S.No.	Name of the Company	Number of Students Participated	No. of students shortlisted In campus	No. of students shortlisted Out campus	Package Offered (Rs Lakhs annum)
1	Ernst Young	20	-	2	2.25
2	IBS, ICFAI	10	2	2	1.80
3	South Indian Bank	41	11	-	2.25
4	Catholic Syrian Bank	44	10	-	2.25
5	Hindustan Levers	40	12	-	4.46
6	KPMG	80	9	-	2.35
7	Dial-a-Bank	100	15	-	1.80
8	Flextronics	63	35	-	1.6
9	Godrej &Boycee	50	-	15	2.62
10	Trident	25	-	7	15.0
11	SAP Lab Pvt. Ltd.	30	-	10	3.0
12	Ernst Young	50	2		2.25
13	DHFL	50	7	-	3.25
14	FINVASIA	53	4	-	3.0
15	Bharti Airtel	31	9	-	3.0
16	PIBM Pune	32	11	-	1.8
17	Yuvshala	23	4	-	3.5
Total		742	131	36	

Placement Details 2012-13

S.No.	Name of the Company	Number of Students Participated	No. of students shortlisted (Incampus)	No. of students shortlisted (Outcampus)	Package Offered (RsLakhs/ annum)
1	Decathlon Sports India	10	-	-	1.8
2	Infosys Technologies	65	45		2.75
3	Mahindra Satyam	40	14	-	2.95
4	Ernst Young	53	7	-	2.25
5	Infosys BPO	25	17	-	1.9
6	Spectreforce	18	-	7	1.8
7	Google Inc.	153	8	-	3.0
8	Ranbaxy	64	39	-	2.80
9	IBS,ICFAI	10	-	2	1.8
10	Tech Mahindra	10	-	2	2.25
11	HDFC Sales	45	4	-	1.80
12	Ernst Young	65	9	-	2.25
13	Federal Bank	31	2	-	6.25
14	WIPRO	45	-	-	-
15	HCL Technologies	43	15	-	1.98
Total		677	160	11	

Placement Details 2011-12

S.No.	Name of the Company	Number of Students Participated	No. of students shortlisted Incampus	No. of students shortlisted Out campus	Package Offered (RsLakhs/ann um)
1	IBM	200	42	-	1.75
2	WNS	100	14		1.60
3	Lowe Lintas	100	15	-	2.40
4	HCL	25	4	-	1.98
5	Google Inc.	300	27	-	2.75
6	India Bulls	48	4	-	4.5
7	Ernst & Young	70	16	-	2.25
8	FINVASIA	55	8	-	3.0
9	Matrix Cellular Services	50	15		3.5
10	Royal Bank of Scotland	10	-	5	2.75
11	Ultrarich .com	15	10	-	3.5
12	Bank of America	7	-	2	1.80
13	SebizInfotech	5	-	2	1.80
Total		985	155	9	

Health Centre:

Under this, a medical room cum health centre having the availability of two well qualified visiting doctors and one twenty four hours available pharmacist. In this centre all the first aid facilities, including dressing, medicines, gynecological help and all the basic health care is provided.

Canteen

Canteen: The College Canteen is a large spacious area, with a view of greenery all around, and a variety of refreshments and meals available. It tends to be the most popular place on campus, not only for physical refreshment but also for student bonding, discussions and even work on assignments and projects. To cater to the taste buds and to provide sumptuous food the college canteen also offers many facilities like Nestea, Nescafe centre, food shop, juice corner and eateries to the students.

Recreational Spaces for Staff and Students

A large main staff room in block I and separate staff rooms in Science, Commerce and IT department have been provided for relaxation of the staff. In addition to this there is seating arrangements in parks and outside the canteen area. There are separate recreation halls in girls and boys hostel with LCD and indoor games facility. There are separate gyms in boys and girls hostel

Safe Drinking Water Facility

In order to provide safe drinking water the college has provided nine water coolers and ten aqua guards. The water coolers are cleaned at regular intervals so that proper hygiene is maintained. They have been installed at various important places in the premises like staff room, classrooms, common room, sports room etc.

Auditorium

There is a 125x80 feet state of the art, ultra modern, fully automated, fully air-conditioned, touch screen operated auditorium with a seating capacity of up to 1000 persons in the college. The college has also constructed a fully Air Conditioned state-of-the-art Mini Auditorium with seating capacity of 230 persons.

4.2 LIBRARY AS A LEARNING RESOURCE**4.2.1 Does the library have an Advisory Committee? Specify the composition of such a committee. What Significant initiatives have been implemented by the committee to render the library student/user friendly?**

Yes, the College Library has a Library Advisory Committee consisting of the following members.

• Dr. Balraj Thapar	Convenor
• Mr. Arvind Mahajan	Co-convenor
• Mr. Gurpreet Singh	Member

•	Mr. Ashutosh Sharma	Member
•	Mrs. Madhu Sharma	Member
•	Dr. Navneet Batra	Member
•	Mrs. Pooja Mohan	Member

It acts as a link between the library-users and the library staff. The Library Advisory Committee comprises of the Convener, senior librarian, librarian and faculty members from different streams. The meeting of the Library Advisory Committee is held once a year to decide library budget and purchase of books as well as the library access and use of library resources.

Initiatives taken by the Library Advisory Committee:

- The Library Advisory Committee at its meeting frames a policy for the smooth functioning of the library. Necessary steps are taken by the committee to execute the decisions taken expeditiously.
- The Library Advisory Committee is a supporting organ of the library that counsels and helps the librarian implement important decisions. Such functioning and implementation of decisions has far reaching implications for the users vis-à-vis the reading and learning process.
- Feedback from the users regarding facilities and functioning of the library is regular feature of the college library. The Library Advisory Committee reviews these feedbacks from time to time. It enables the committee to take necessary actions regarding the smooth functioning of the library and to make learning a valuable experience.
- It is by virtue of the Library Advisory Committee's initiatives that the installation of JAWS Screen reading software to provide support to differently abled users has become a reality. As a result, the college digital library has become a conducive place to study for all such students who cannot make a proper use of an ordinary library.
- A user cannot make the most of a library facility unless he/she is well versed with the norms and regulations of the library. The Library Advisory Committee takes steps that proper display of rules of library for the better usage of its resources becomes a fruitful reality.
- The Library Advisory Committee has established a Readers' Club to create awareness of latest book editions, reading material and e-content in the library to improve reading habits among the users.
- In order to keep pace with changing times and technologies, the Library Advisory Committee recommended the purchase of 1, 34,000 e-books from EBSCO. It has opened a new vista for the modern user who is more comfortable with e-learning methods.
- Stock verification is regular and cumbersome task since the college library has a huge number of books and other articles of infrastructure that keeps on swelling. The Library Advisory Committee provides guidance in stock verification and preparing its report.

4.2.2 Provide details of the following:

- **Total area of the library (in Sq. Mts.)**
- **Total seating capacity**
- **Working hours (on working days, on holidays, before examination days, during examination days, during vacation)**
- **Layout of the library (individual reading carrels, lounge area for browsing and relaxed reading, IT zone for accessing e-resources)**

Total area of the library (in sq. mtr.): 1143.32 sq. mtr.
 Total area of the reading hall (in sq. mtr.): 412 sq. mtr.
 Total seating capacity: 262

Working hours (on working days, holidays, before examination days, during examination days, during vacation)

Table 4.13

a) On working days	Monday to Saturday	9.00 a.m. to 8.00 p.m.
b) On holidays	Sunday and Public Holidays	9.00 a.m. to 2.00 p.m.
c) Before Examination Days		9.00 a.m. to 8.00 p.m.
d) During Examination Days		9.00 a.m. to 8.00 p.m.
e) During Vacations	Monday to Saturday	9.00 a.m. to 5.00 p.m.

Layout of the Library The college has a state-of-the-art library with Post Graduate section, Under-Graduate Section, Reading Room and Digital Section. The library has well defined sections where students, researchers and teachers delve deep into the realm of knowledge. The library has earmarked Pt. Mohan lal Digitization Centre in the memory of the founder president of the college who was a titan among the academicians and politicians of his time.

Special reading carrels of the college library at the first floor provide a reader his/her own private milieu where he/she can delve deep into the domain of learning without any hindrance and distraction from other readers..

Lounge area of the college library is a comfortable place where students, teachers and visitors sit at ease and browse the collection of the library. This area provides excellent sitting facility where visitors and users can do serious work in a relaxed way. The library has a well defined and earmarked **IT zone for accessing e-resources** and e-contents where user has an easy access to all the e-resources subscribed by the college and available in the public domain.

4.2.3 How does the library ensure purchase and use of current titles, print and e-journals and other reading material? Specify the amount spent on procuring new books, journals and e-resource during the last four years.

- The College Library obtains requirement of new books and journals from each department at the beginning of the each academic session. The Principal approves the list and marks the budget according to the requirement. The purchase order is placed to dealer/publisher and purchase is made accordingly.
- Students can also request for new book by filling book requisition form available at the circulation counter of the library.

- Other than that, every year, exhibition of latest books dealing with the universe of knowledge takes place in the library where books are selected by members of faculty and purchase is made.
- Every year, a team of college faculty and librarian visits the World Book Fair, New Delhi and purchase the books.
- List of new arrivals of books are displayed on the book display board of the library for creating awareness about books.
- The college has subscribed print and e-journals according to the requirement of faculty and students.

Details of amount spent on new books and journals during the last four years (in Rupees)

Table 4.14

2015-16

Library Holdings	Number	Total cost
Text books	387	2,13,782.3
Reference books	60	2,07,837.1
Other Books	178	97,123.75
Total No. of Books	625	5,18,743.2
Newspapers	22	58,947
Journals/ Periodicals	108	1,05,256
CD & Video	115	-----
e-books/ e-Journals	138417 (EBSCO)	1,58,050
e-books/ e-Journals	97000/6000+ INFLIBNET	5000
Total Amount		8,45,996/-

2014-15

Library Holdings	Number	Total cost
Text books	232	77685
Reference books	41	71206
Other Books	646	311407
Total No. of Books	919	460298
Newspapers	22	54515
Journals/ Periodicals	115	172157
CD & Video	100	-
e-books/ e-Journals	134000(EBSCO)	158050
e-books/ e-Journals	97000/6000+ INFLIBNET	5000
Total Amount		Rs 8,50,020/-

2013-14

Library Holdings	Number	Total Cost
Text books	68	35263
Reference books	109	766007
Other Books	633	335263
Total No. of Books	810	1136533
Newspapers	22	39204
Journals/ Periodicals	115	89869

CD & Video	298	-
e-books/ e-Journals	22000/3000	5000
Total Amount		Rs 12,70,606/-

2012-13

Library Holdings	Number	Total Cost
Text books	23	28844
Reference books	62	290243
Other Books	1216	622719
Total No. Books	1301	941806
Newspapers	22	34020
Journals/ Periodicals	121	153061
CD & Video	168	-
e-books/ e-Journals	23254/846	5000
Total Amount		Rs 11,33,887/-

2011-12

Library Holdings	Number	Total Cost
Text books	62	42324
Reference books	207	945056
Other Books	3,263	1765737
Total No. Books	3532	2753117
Newspapers	22	24288
Journals/ Periodicals	123	151209
CD & Video	311	-
e-books/ e-Journals	51746/2154	5000
Total Amount		Rs 29,33,614/-

4.2.4 Provide details on the ICT and other tools deployed to provide maximum access to the library collection?

- OPAC
- Electronic Resource Management package for e-journals
- Federated searching tools to search articles in multiple databases
- Library Website
- In-house/remote access to e-publications
- Library automation
- Total number of computers for public access
- Total numbers of printers for public access
- Internet band width/speed 2mbps 10mbps 1GB)
- Institutional Repository
- Content management system for e-learning
- Participation in Resources haring networks/consortia (like Inflibnet)

In the modern age it has become necessary to use Information Communication Technology in every aspect of learning environment. Library has taken the following steps to use ICT in the library:

OPAC (Online Public Access Catalogue):

The library has prepared database of books in the English Language. As soon as the new books are purchased and processed, their bibliographic description is added in the OPAC. One terminal is dedicated to the readers so that they can use OPAC for their search of books.

Electronic Resource Management Package for e-resources:

The College has joined the “National Library and Information Services Infrastructure for Scholarly Content (INFLIBNET N-LIST)” programme under which access to e-resources (6000+ e-journals and 97000+ e-books) to students, researchers and faculty from college is provided. <http://nlist.inflibnet.ac.in/>

From 2014-15, College library has also subscribed to **1,38,000 e-books** under **EBSCO e-books Academic Collection**, from more than **450 publishers** including titles from leading university press such as Oxford University Press, MIT Press, State University of New York Press, Cambridge University Press, University of California Press, McGill-Queen’s University Press, Harvard University Press and many others. Additional academic publishers include Elsevier Ltd., Ashgate Publishing Ltd., Taylor & Francis Ltd, Sage Publications, Ltd. and John Wiley & Sons. <https://search.ebscohost.com>

Federated searching tools to search articles in multiple databases:

Yes, in case of searching INFLIBNET N-List e-resources.

E-Journals (Fulltext) 6000 ejournals	
E-Resources	Websites
✔ American Institute of Physics (18 titles)	http://journals.aip.org/
✔ American Physical Society (10 titles)	http://publish.aps.org/browse.html
✔ Annual Reviews (33 titles)	http://arjournals.annualreviews.org/
✔ Cambridge University Press (224 titles)	http://journals.cambridge.org/
✔ Economic and Political Weekly (EPW) (1 titles)	http://www.epw.in/
✔ Indian Journals (180+ titles)	http://www.indianjournals.com/
✔ Institute of Physics (46 titles)	http://iopscience.iop.org/
✔ JSTOR (2500+ titles)	http://www.jstor.org/
✔ Oxford University Press (206 titles)	http://www.oxfordjournals.org
✔ Royal Society of Chemistry (29 titles)	http://www.rsc.org/Publishing/Journals
✔ H. W. Wilson (3000+ titles)	http://search.ebscohost.com
E-Books 97000+ ebooks	
✔ Cambridge Books Online (1800 titles)	http://ebooks.cambridge.org
✔ E-brary (83000+ titles)	http://site.ebrary.com/lib/inflibnet
✔ EBSCOHost-Net Library (936 titles)	http://search.ebscohost.com
✔ Hindustan Book Agency (65+ titles)	http://hindustan.igpublish.com
✔ Institute of South East Asian Studies (ISEAS) Books (382+ titles)	http://iseas.igpublish.com
✔ Oxford Scholarship (1402+ titles)	http://www.oxfordscholarship.com/
✔ Springer eBooks (2300 titles)	http://link.springer.com .
✔ Sage Publication eBooks (1000 titles)	http://knowledge.segepub.com .
✔ Taylor Francis eBooks (1800 titles)	http://www.tandfebooks.com .
✔ My library-McGraw Hill (1124 titles)	http://lib.mylibrary.com/

Library Website: A dynamic link of library is provided on the main website of the college i.e. www.ggdsd.ac.in.

In-house/remote access to e-journals:

Remote access is provided to faculty as well as students for INFLIBNET N-List resources (e-journals and e-books). These resources can be accessed from inside and outside campus. These resources (e-journals and e-books) are accessible through separate login IDs and passwords.

Library automation

The library is fully automated with “TCSiON” software which has following advantages:

- Flexible to run on any operating system,
- Interactive, screen-oriented and menu driven user interface,
- User-defined security levels,
- Optional web-based architecture,
- Books can be searched in OPAC through Author, Title and Publisher.

The library automation software is equipped with the following modules:

- Acquisition
- Circulation
- OPAC, and
- Reports.

Total number of computers for public access

There are fifty four computers in the library for public access:

- **OPAC:** Two computers: One in the Post Graduate section and the other in the Under Graduate section of the Library.
- **Digital Library** consists of fifty two computers where students and the faculty can access e-journals, e-books and databases subscribed by the college library and other open access resources.

Total number of printers for public access:	01
Internet Bandwidth/speed:	50 mbps
Institutional Repository:	No
Content management system for e-learning:	Yes

Participation in Resource sharing networks/consortia (like INFLIBNET):

Yes, INFLIBNET N-List programme for access of e-resources (e-books and e-journals).

4.2.5 Provide details on the following items:

- Average number of walk-ins
- Average number of books issued/returned
- Ratio of library books to students enrolled
- Average number of books added during last three years
- Average number of login to opac (OPAC)
- Average number of login to e-resources
- Average number of e-resources downloaded/printed

- Number of information literacy trainings organized
- Details of “weeding out” of books and other materials

Average number of walk-ins:	455
Average number of books issued/returned:	125
Ratio of library books to student enrolled:	1:11
Average number of books added during last four years:	914

Table 4.15

Year	Students	Total Books	Ratio
2011-12	3454	62445	1:18
2012-13	3630	63744	1:17
2013-14	4382	64566	1:14
2014-15	5002	65501	1:13
2015-16	5724	66145	1:11

S. No.	Year	Books
1	2011-12	3532
2.	2012-13	1301
3.	2013-14	770
4.	2014-15	919
5.	2015-16	625
Total		7147

Average number of login to Library Software:	200
Average number of login to e-resources:	30
Average number of e-resources downloaded/printed:	25
Number of information literacy trainings organized:	02

Details of “weeding out” of books and other materials:**Table 4.16****Details of books weeded out from the library (From 2001-2012)**

S. No.	Particulars	Year	Books
1	Books	2001-02	102
2.	Books	2002-03	46
3.	Books	2003-04	128
4.	Books	2004-05	135
5.	Books	2005-06	140
6.	Books	2006-07	150
7.	Books	2007-08	160
8.	Books	2008-09	185
9.	Books	2009-10	198
10.	Books	2010-11	184
11.	Books	2011-12	245
Total			1673

4.2.6 Give details of the specialized services provided by the library

- **Manuscripts**
- **Reference**
- **Reprography**
- **ILL(Inter Library Loan Service)**
- **Information deployment and notification**
- **Download**
- **Printing**
- **Reading list/Bibliography compilation**
- **In-house/remote access to e-resources**
- **User Orientation and awareness**
- **Assistance in searching Databases**
- **INFLIBNET/ IUC facilities**

Manuscripts: Yes, a collection of hand written diaries, documents, books, photographs of Pt. Mohan Lal Ji.

Reference: Yes, CAS (Current Awareness Service) and SDI (Selective Dissemination of Information) on demand, Ask-a-Librarian thorough e-mail

Reprography: Yes, two Photostat machines are available in the library.

ILL (Inter Library Loan Service): Yes

Information deployment and notification: Details of employment notices and new arrivals are displayed on the notice board of the library.

Reading List / Bibliographic Compilation: Yes with ICSSR (Indian Council of Social Science Research)

Download: Yes

Printing: Yes, printing facility available for staff and occasionally students can also print.

In-house/remote access to e-resources: Yes

User orientation and awareness: Yes

- Library literacy programme organized in the Readers Club.
- Library orientation programme is organized at the beginning of every academic session.
- Training programme and workshop for the awareness and proper utilization of e-resources.

Assistance in searching Databases: Yes, through orientation programmes.

INFLIBNET/IUC facilities: Yes

4.2.7 Enumerate the support provided by the library staff to the students and teachers of the college.

Library staff is always there to help the users. The Internet facility is available for the users to access the e-resources. Following support is provided by the library staff:

- OPAC: how to use it
- How to search a particular document from the shelves
- How to search information from e-resources
- Helping them in compiling projects
- Current Awareness Services and SDI on demand
- Newspaper Clippings: Annual compilation of college news in book form

4.2.8 What are the special facilities offered by the library to the visually/physically challenged persons? Give details.

- **JAWS:Windows Screen Reading Software** installed on two computers of Digital Library.
- **Library, Reading room and Digital Library** facilities on ground floor help easy access for physically challenged person.

4.2.9 Does the library get the feedback from its users? If yes, how is it analyzed and used for improving the library services. (What strategies are deployed by the library to collect feedback from users? How is the feedback analyzed and used for further improvement of the library services?)

The users of the library can give feedback by writing in the feedback register kept in the library or by putting letter in the suggestion box outside the library. The feedback of the users is analyzed by the Librarian and changes are made accordingly, if needed.

4.3 IT Infrastructure**4.3.1. Give details on the computing facility available (hardware and software) at the institution. Number of computers with Configuration (provide actual number with exact configuration of each available system)**

- Computer-student ratio
- Stand alone facility
- LAN facility
- Wi-fi facility
- Licensed software
- Number of nodes/computers with Internet facility
- Anyother

Number of computers with configuration (provide actual number with exact configuration of each available system)

Each department has its dedicated hardware and software computing labs with a total number of **574 Desktop Computers, 40 Laptops and 11 servers.**

Table 4.17

S.No	Faculty	No. of Computers	Configuration	Location
1	IT	120	Lenovo Thinkcentre 10BBAOV41H Lenovo M73Z AIO Core i7/8GB/1TB/20” Windows 7	Lab1, Lab2&Lab8
		30	Lenovo Thinkcentre E73, Wipro LCD with intel core i5 RAM-4.00 GB	Lab 3
		73	HP Cabinet, Samsung LCD, Intel i3 2.90 GHz. Wipro Cabinet, Pentium dual Core, Windows 7/8	Lab1 & Lab4, IT Staff Room & Server Room
		77	HP Cabinet, HP LCD Intel Pentium Core Duo 2.94 GHz, Intel core 2 Duo, Windows-7/XP	Lab5, Lab6 & Lab7
2	Physics	24	Lenovo Thinkcentre E73, Wipro LCD with intel core i5, Dell Intel core i3 & ESYS Desktop	Physics Lab
3	Chemistry & Industrial Chemistry	06	Lenov, Compaq & HP Systems with Intel core i3 & Intel(R) Pentium4	Chemistry Lab
4	Botany	02	HP Desktop, Intel Pentium, Windows XP	Botany Lab
5	Zoology	02	HP Desktop, Pentium Dual core CPU E5300@2600 Hz, Windows	Zoology Lab
6	Bioinformatics	64	Lenovo i7, Wipro, HCL, HP, ESYS Desktops & Intel(R) Pentium(R) 4	Lab I, Lab II & Research Lab
7	Arts	35	HP Desktop Compaq DX2700, MAC	Mass Communication
		05	AMD Athion (tm), Windows 7, HP desktop	Psychology, History Economics

8	Digital Library	51	HP Cabinet, Intel Pentium, RAM-248MB/2GB Microsoft Windows XP Professional	Digital Library
		01	Desktop Core i7, assembled with DELL LED	Digital Library
		08	HP Desktop Compaq DX270	Library Staff (UG -03, PG-05)
9	Microsoft Lab	32	Lenovo All in One Desktop	UFV Microsoft Lab
10	Administrative Block	11	i5 and Lenovo Desktop Think Centre 3574, HP All in One Desktop, Dual core	Admin office
11	Society office	05	i5 and Lenovo Desktop Think Centre 3574	Society Office
12	Principal Office	01	Desktop tiny M73	Principal's Office
13	Reception	01	Intell(R) CPU@ 2.67 GHz	Reception
14	IQAC	01	i3 Intel core	IQAC Room
15	Chief Warden Room	01	Z200 Workstation, i3 Intell Core For (Prowess server)	
16	Controller of Exams Room	01	Lenovo All in one Desktop, Intell(R) Celerion(R) CPU 3GHz	
17	Registrar Room	01	Lenovo All in one Desktop, CPU 2,76 GHz	
18	BBA Coordinator & Server Room	01 01	HP Desktop HP All one Desktop	
19	Faculty rooms 18,19,21,22,24 25	06	HP Desktop, AMD E1-1500 APU Radeon, Pentium	
20	Hostels(Boys & Girls)	15	IBM Pentium 4 and HP All in one desktop	
Total		574		

Laptops:

S.No	Dept	Configuration	Total	Location
1	IT	HP Laptop DV6165TX	06	Dr. Virender Singh Mr. Naveen Dalal Mr. Paramjit Singh Mr. Sumant Dutta Server Room
2	Science	HP Laptop DV6165TX	02	Dr. PN Pandit Dr. Navneet Batra
			10	Science Faculty
3	Commerce	HP Laptop DV6165TX	01	Dr. Ajay Sharma
		HP Laptop with i3 processor	13	BBA Dept.
4	Arts	HP Laptop DV6165TX	01	UGC Office
		Apple MAC A1465	01	Mr.Gagandeep Sharma
5	Principal Office	HP Laptop DV6165TX	01	Principal Office
		Apple MAC A1465	01	
6	Library	HP Laptop 6700	01	Mr. Gurpreet Singh
7	Administrative Office	HP Laptop D005TU	01	Mr. Vishavjeet
8	IQAC	HP laptop	02	IQAC Room
Total			40	

Servers:

SNo.	Dept	Item Description	Total	Location
1	IT	Apple iMAC MD093HN/A	01	IT Server Room
		HP Workstations	01	IT Server Room
		Natra Spark T41 Unix Server	01	IT Server Room
		HP Workstation Z200	01	IT Server Room
		IBM Server X3400	02	IT Server Room
		Xeon Server X3400M3	01	IT Server Room
		Lenovo i7	02	IT Server Room
2	Bioinformatics	HP Server (Workstation) Model # XW4600	01	LabI
		IBM ServerModel #X Series 206	01	LabI
Total			11	

Computer –Student ratio

The computer to Student ratio during classes is 1:1 so that students can effectively use the system.

Stand Alone Facility

Institution is using stand-alone facility. Principal office and management office is equipped with Fax machines for secure communications.

LAN

College has its managed LAN switching .The LAN has wi-fi and wired nodes. Institution has high end core switching and routing capabilities .LAN has Cisco manageable switches behind firewalls. Institution provides access to different services and access to various servers (windows/Linux based) for computing and storage purposes

Wi-Fi

The whole campus is equipped with wifi for free access .The College is interconnected with the help of leased line with fiber optic backbone cable allowing data rates of 100mbps. The backbone links has 12 Access points (indoor) and 03 Access Point (outdoor) with 01 controller which connects buildings of the Campus to the Department & Hostels. Centrally managed switches and servers provide high speed computing as well as Internet and e-mail facilities. The service is available round the clock.

Licensed Software

College has the following licensed software with Microsoft cloud Agreement.

Table 4.17

S.No	Department	Licensed Software's
1	IT	• Microsoft windows 7/8 • Microsoft Windows XP • Microsoft Office • Ansi C/C++ • ORACLE • Antivirus (Trend Micro) • Red Hat Linux Packages • JDK 1.4 etc • VB/VC++ • Adobe Illustrator • Corel Graphics suite • Macromedia Studio Max • Photoshop • Visual Studio
2	Bioinformatics	• DNA STAR • Discovery STUDIO(4Modules only) • GAUSSIAN 900 & GAUSS

		• HYPER CHEM 8.0 • MINI TAB
3	Arts	• Quark X-press • CMIE PROWESS DATABASE • SPSS

Number of Nodes /Computers with internet facility:

- Each department is equipped with Wi-Fi for free access.
- Hostels are equipped with Wi-Fi.
- Digital library and Accounts office are also using internet facility.

Any Other:

- The whole campus is under Surveillance camera system.
- Institution is using ERP software name TCSiON powered by TCS to automate the system.

4.3.2 Detail on computer and internet facility made available to the faculty and students on the campus and off campus?

- The whole campus is equipped with Wi-Fi for free access for the students and the faculty members. Hostels are equipped with sufficient number of computers and Wi-Fi free access.
- A digital library has been established to access electronic resources and internet services for students and faculty members. The JAWS screen reading software for facilitating visually impaired students has been installed on two computers in Digital Library. Sufficient number of laptops are provided to the department for faculty members for effective teaching and to promote the research work.
- The college has signed an MOU with Tata Consultancy Services (TCS) and shifted the administrative and Academic base from Partial automation to full automation module.
TCS ion Education Solution is providing two products iON Education Solution and Learning Exchange Module, which is used by the faculty members and students on the campus as well as off campus.
- By introducing iON Education, all the functions are digitized, automated and connected. Students are registered through Online Applications Management System and once admitted in the college they can access their time table, attendance, leave, fee, grades, fines, library and hostel facility through ERP solution.
- By Using Learning Exchange Module, faculty and students can share their e-contents, assignments, power point presentation, course schedule and examination details, Announcements and Digital notice Board.

4.3.3 What are institutional plans and strategies for deploying and upgrading the IT infrastructure and associated facilities?

- Our college maintains a regular infrastructure data base of computers and accessories. Periodically, the old systems are replaced with systems to improve the computation facility for the teachers and students with an enhanced configuration.

- With the growth of the users, IT services and increasing bandwidth demand, the college has scaled up the switching capabilities and implemented latest managed wired and wi-fi access.
- The functions of college are automated with integrated ERP software developed by TCS. TCS Applications systems is providing many services and facilities to the college which includes the following

Implementation Services: Delivers a completely configured system ready for end users to transact and extract output on day to day basis.

- TCS iON Academics
- TCS iON Support Services Solution
- TCS iON Administrative Services Solution
- TCS iON Smart Identity Management Solution

Managed Services: A service delivered as an output, manages the event and process end to end.

- TCS iON Admission Solution
- TCS iON Exam Grade Management Solution
- TCS iON Payroll Solution

Self Services: It provides a user intuitive solution that gives users the flexibility to configure, transact and leverage output themselves.

TCS iON Learning Exchange Solution which covers the following activities.

- Course Design(Course Summary, Syllabus, Course Content, Course attendance, Grades and reports)
- Sharing and uploading Assignments, Homework, Quiz and e-contents
- Time table, Scheduling Classes/Lab/Practical
- Sharing of Academic Issues
- Announcements and Digital Notice Board

4.3.4 Provide details on the provision made in the annual budget for procurement, up gradation, deployment and maintenance of the computers and their accessories in the institution (year wise for last four years).

The procurement and upgradation, deployment and maintenance of computers depend on the fund availability. Therefore, there are no budgets allocated in the annual plans. The procurement is basically from UGC and college funds depending upon the allotment/ approval respectively.

Following is the actual expenditure incurred on procurement and maintenance of computers and other ICT equipments like LCD/LED projectors/interactive Boards, Power Back ups in the last four years.

Table 4.18

S.No	Year	Budget utilized
1	2011-12	967225
2	2012-13	414423
3	2013-14	537197
4	2014-15	4736293(for computers) 2149510(for ICT)

4.3.5 How does the institution facilitate extensive use of ICT resources including development and use of computer-aided teaching/learning materials by its staff and students?

We can enhance the quality of education in several ways: By increasing learner motivation and engagement by facilitating the acquisition of basic skills.

- There are smart classrooms with projectors installed. The students also have the opportunity to work on Internet development tools among other Visual and Non-Visual ones.
- The functions of college are automated with integrated ERP software developed by TCS. TCS Applications systems providing many services and facilities to the staff and students to use computer aided teaching/learning.

TCS iON Academics module is offered in implementation service mode which helps us to achieve the lesson plan Execution:

- Upload assignment, quiz content according to the time table .
- Topic coverage updation by faculty.
- Lesson plan using assigned periods to faculty for a subject
- Lesson plan tracking
- Capture marks for academics quiz/assignment

TCS iON learning Exchange module is offered as a self service which includes the following:

- TCS iON learning Exchange (Professional Virtual Community) Solution provides the facility to create community (public/private) for sharing and uploading contents of their subjects.
- TCS iON learning Exchange (learning management system) solution provides Course design, Course Content and Course Delivery Control. Faculty and students can share their assignments, powerpoint presentations, homeworks and quiz, e-content through this module.

Keeping in view the changing trends, a digital library has been established to access electronic resources and internet services.

4.3.6 Elaborate giving suitable examples on how the learning activities and technologies deployed (access to on-line teaching –learning resources, independent learning, ICT enabled classrooms/learning spaces etc.) by the institution place the student at the centre of teaching –learning process and render the role of a facilitator for the teacher.

The teachers are encouraged to use ICT resources in classrooms for transforming the classroom teaching to learner centric. Teachers are trained to use the equipments like computers, internet and projectors. Through ICT enabled teaching, the participation of students in the learning process becomes much more than it is in the traditional system of teaching method.

- The student is always placed at the centre of teaching and learning process , by providing ICT enabled class rooms/Learning spaces.
- Our institution uses projectors for the classes to improve the students Presentation Skill by assigning them relevant and new seminar topics related to information technology in their seminar period.
- Faculty & Staff are encouraged to attend Seminars, workshops to enhance the knowledge and skills.
- We are also using the software for learning Exchange (LX) system for teaching online. Teachers can upload and share lectures, videos, PowerPoint presentations,

assignments and online tests for students and students can access e-books through this facility.

- Access to many online learning programmes can be accessed through the digital library facilities that are provided to all the students and staff members to improve quality in teaching, learning and research.
- A digital library has been established to access electronic resources and internet services. Digital section of the library is equipped with 50 computers. For smooth and speedy internet access, it is connected with the 100mbps leased line connection. The JAWS screen reading software for facilitating visually impaired students has been installed on two computers.
- OPAC (Online Public Access Catalogue) The library has prepared database of books in the English Language. As soon as the new books are purchased and processed, their bibliographic description is added in the OPAC. One terminal is dedicated to the readers so that they can use OPAC for their search of books.
- Electronic Resource Management Package for e-resources:
- The College has joined the “National Library and Information Services Infrastructure for Scholarly Content (INFLIBNET N-LIST)” programme under which access to e-resources (**6000+ e-journals** and **97000+ e-books**) to students, researchers and faculty from college is provided. <http://nlist.inflibnet.ac.in/>

From this year, College library has also subscribed to **1,38,000 e-books** under **EBSCO e-books Academic Collection**, from more than **450 publishers** including titles from leading university press such as Oxford University Press, MIT Press, State University of New York Press, Cambridge University Press, University of California Press, McGill-Queen’s University Press, Harvard University Press and many others. Additional academic publishers include Elsevier Ltd., Ashgate Publishing Ltd., Taylor & Francis Ltd, Sage Publications, Ltd. and John Wiley & Sons. <https://search.ebscohost.com>

4.3.7 Does the Institution avail of the National Knowledge Network connectivity directly or through the affiliating university? If so, what are the services availed of?

The college has availed the National Knowledge Network Connectivity. It includes access to N-List project through **INFLIBNET** which contains about 6000 online e-journal and 1, 35,000 e-books. College library has also subscribed to 1, 38,000 e-books under **EBSCO e-books Academic Collection**, from more than 450 reputed publishers.

CRITERION V: STUDENT SUPPORT AND PROGRESSION**5.1 Student Mentoring and Support****5.1.1 Does the institution publish its updated prospectus /handbook annually? If 'yes', what is the information provided to students through these documents and how does the institution ensure its commitment and accountability?**

The college publishes its updated prospectus/handbook every year in accordance with Panjab University rules and regulations. The updated prospectus/handbook is published with a focus to furnish information regarding:

- Vision and Mission of the College
- A Brief History of the College
- Organization and Governing Body
- Updated courses/ programmes and facilities
- Anti Ragging Rules,
- CCASH (College Committee Against Sexual Harassment)
- College Calendar
- Admission Process
- General Code of Conduct
- Infrastructure
- Faculty
- Administrative and Support Staff/Committees and Offices related to student welfare
- Details of the Courses offered including Add-On Courses
- Library Facilities
- Information on Class rooms and various Labs
- All Extension Activities
- Student Support and Progression Programme
- Cultural Activities
- Clubs and Cells
- Information on Sports Activities
- Fee Concessions/Freeships/Scholarships details
- Alumni

The same information is uploaded on the college website www.ggdsd.ac.in as well. The Advisory Council and the Internal Quality Assurance Cell (IQAC) monitor the implementation of the above mentioned domains. The institution thus ensures full support and encouragement to the new students.

5.1.2 Specify the type, number and amount of institutional scholarships/freeships given to the students during the last four years and whether the financial aid was available and disbursed on time?

The College upholds students' welfare and provides scholarships/freeships to meritorious/deserving students. Scholarships are provided to students who bag top 10 positions in the Panjab University examinations. These efforts encourage more students to perform better. With the assistance of the Chandigarh Administration, the College also provides half (tuition) fee concession to the students who have their siblings enrolled in the

college. We also, in assistance with the Chandigarh Administration, provide those students half concession in tuition fee, whose parents' annual income is less than Rs 1,00,000/-.

The College also runs a book bank with a view to help meritorious and financially weak students. These scholarships and concessions amount to a tune of Rs. 25,00,000/-.

The scholarships/freeships are given from the Principal's account, Pt. Mohan Lal Hira Devi Charitable Trust, Central/State Govt. and Guru Harkrishan Educational Society. The number of scholarships and the amount disbursed to students for the last four years is as below:

Table 5.1
Scholarships

Year	Principal's account
2011-2012	3,38,169
2012-2013	4,16,000
2013-2014	8,28,400
2014-2015	7,90,000

Table 5.2
Freeships to students (Sports)

YEAR	2011-2012	2012-2013	2013-2014	2014-2015
FREESHIPS	3,21,200/-	8,00,000 /-	15,67,000 /-	11,08,520/-

5.1.3 What percentage of students receives financial assistance from state government, central government and other national agencies?

Some students receive financial assistance from the following external agencies:

- Prime Minister Special Scholarship for J&K Students (PMSSS)
- Indian Council of Social Science Research (ICSSR) (Foreign Students)
- Central/State Government grant for SC/ST
- Guru Harkrishan Educational Society
- Pt. Mohan Lal Hira Devi Charitable Trust

Less than 1% of students avail the above mentioned financial assistance.

5.1.4 What are the specific support services/facilities available for

- Students from SC/ST, OBC and economically weaker sections
- Students with physical disabilities
- Overseas students
- Students to participate in various competitions/National and International
- Medical assistance to students: health centre, health insurance etc.
- Organizing coaching classes for competitive exams
- Skill development (spoken English, computer literacy, etc.,)
- Support for "slow learners"
- Exposures of students to other institutions of higher learning/corporate/ business house etc.
- Publication of student magazines

Students from SC/ST, OBC and economically weaker sections

The college provides all the facilities to SC/ST/OBC as per the rules of Government of India. Economically weak and the meritorious students of these categories are provided scholarships/ freeships along with a fee waiver. The College also provides them with special classes which focus on helping them improve their subjects. The students are motivated and encouraged to take part in various co-curricular activities as part of our policy of inclusion and participation.

Students with physical disabilities

The College provides special amenities to the students with special abilities and caters to their needs in every possible way:

- For the visually impaired students, the college has a screen reading software called JAWS. The software reads the material typed on the screen, thus making it easy for the student to gather information.
- There are ramps for the special students to ensure easy access to the classrooms.
- Adjustment in the time-table is made in case it is difficult for the student to stay late for the class.
- Fee waiver/scholarships are provided to meritorious /needy students.
- Provision of one additional seat in case of students suffering from cancer, AIDS and Thalassaemia, if otherwise the candidate fulfills all other admission criteria.

Overseas students

Over the last four years, around **105 overseas students** have taken admission in our institution. The college received grant of **Rs 20,30,000/- from ICCR** for 89 foreign students. The overseas students receive special attention from the faculty and staff of the college. **Dean Foreign Students**, caters to the needs of the overseas students. The Dean regularly attends meetings regarding the welfare of international students at Panjab University, Chandigarh.

- At the time of the admission, the Dean along with other senior faculties sits for counseling the overseas/international students. This helps students in deciding the course that will prove best for them.
- During their first year, the international students usually encounter language problems and the college runs extra classes for them.
- The new students are introduced to the unique 'Buddy System'. Under this system the new students meet their seniors from their home country. The senior students also help them with their academics and settlement.
- The College provides the international students an ambience of home.

Students to participate in various competitions/National and International

The students are always encouraged to participate in various competitions be it national or international. With a view to provide them an exposure and an experience, the college helps the students with the following:

- The faculty and various Clubs keep a vigilant eye on upcoming National or International events as they intend to inform the students about such events and thus prepare them accordingly.
- Students who participate in various events are given travelling allowance, dearness allowance and registration fee. The participating students also receive Certificate of Appreciation from the College.

- The faculty accompanies the students to ensure their security. The faculty is also a constant source of encouragement to them; building their confidence is utmost to the College.

Medical assistance to students: health centre, health insurance etc.

Student safety is of utmost importance to the institution. The college provides the following medical facilities to the students:

- The College has two doctors and one pharmacist to ensure timely medical aid.
- The College bears medical expenses of any student who falls sick or faces any medical emergency during the college hours.
- All the students of the college have been covered under the accidental insurance scheme to the tune of Rs. 1, 00, 000/-. The policy covers: Death, Loss of two limbs/two eyes, Loss of one limb/one eye, Permanent total disability from injuries, Permanent partial disability.

In addition to the above mentioned facilities, the policy provides for reimbursement of medical expenses, subject to a limit of Rs. 500/-, incurred by any student for their treatment in a hospital/nursing home as in-patient, for any injury sustained in an accident during the session. These claims are, however, settled by the insurance company.

- A well qualified nurse has been recruited in the girl's hostel to ensure prompt first aid to the student/s.
- The Wardens of the respective hostels (boys and girls) also ensure that in case of an emergency, the student is provided first aid. For such emergencies, the College has tie ups with Government Medical College Hospital, Sector 32, General Hospital, Sector 16, PGI, Sector 12, Chandigarh.
- The College has tied up with INSCOL, Chandigarh for emergency medical treatment.
- The College invests decent amount of finances to ensure medical facilities to the students.

Table 5.3

Year	Student insurance	Medical expenditure (including the salary of the doctors/staff)
2011-2012	1, 59, 317	1, 28, 941
2012-2013	1, 41, 521	1, 30, 321
2013-2014	1, 87, 439	1, 53, 863
2014-2015	2, 10, 675	1, 84, 056

Coaching classes for Competitive Examinations

The College focuses on all round development of the students. Keeping in view the highly competitive scenario, the College provides its students coaching classes. The College is running self financed courses for UGC NET coaching. The faculty also keeps the students updated on competition dates/deadlines.

Skill Development

The students need to hone their skills to prepare for the competitive world. They need to face interviews and update themselves with the information technology. To help students tackle the subjects, the College runs the following classes/courses:

Vocational Courses under Deen Dayal Upadhyay KAUSHAL Kendra are running in the college which specifically focus on the skill development and vocational training of students. Two of these courses B.voc (Retail Management and B.Voc food Processing and Preservation) were started in the session 2014-2015.

B. Voc Hardware & Networking: This course was started in the session 2015-16 under the Deen Dayal Upadhyay KAUSHAL Kendra Scheme of UGC, New Delhi. This is a three year degree course with exit point facility after the 1st year (whereby the candidate will be certified as a Diploma Holder) and the 2nd year (whereby the candidate will be certified as Advanced Diploma holder).

B. Voc Fashion Technology & Apparel Design: This course was started in the session 2015-16 under the Deen Dayal Upadhyay KAUSHAL Kendra scheme of UGC, New Delhi. This is a three year degree course with exit point facility after the 1st year (whereby the candidate will be certified as a Diploma Holder) and the 2nd year (whereby the candidate will be certified as Advanced Diploma holder).

B.Voc Agri Business and Agrarian Entrepreneurship: This course was started in the session 2015-16 under the Deen Dayal Upadhyay KAUSHAL Kendra Scheme of UGC, New Delhi. This is a three year degree course with exit point facility after the 1st year (whereby the candidate will be certified as a Diploma Holder) and the 2nd year (whereby the candidate will be certified as Advanced Diploma holder).

The main aim behind these courses is to provide an alternative to those pursuing higher education. The courses will promote the possibility of self employment, thereby decreasing unemployment.

The Literary Club of the Department of English regularly organizes seminars, literary competitions/fests, theatre, mock interviews which help students hone their literary skills. For improving their spoken English and inculcating good interpersonal skills, the College regularly conducts extra grammar classes, literary fests, mock-interviews etc.

- The College also possesses updated and efficient **Communicative English Lab** which facilitates students with honing their speech skills. The faculty also teaches the students a course in phonetics which helps them with correct and updated pronunciation and speech. For the purpose, the Lab is equipped with 6 Mac Computers, 30 Pentium Dual Core System with TFTs connected to the Campus Wide Network (with its centre at the Department of Information Technology). Software like Apple's Final Cut Pro, Quark Express, Clarity's Speech Skills and Business Writing, Sky's Pronunciation Suite are available in the Lab. In addition to the software, the Lab has conventional audio tapes produced by CIEFL, Hyderabad, Linguaphone Series and BBC Series.
- Ours is the first ever college in the region to be selected as Member **Microsoft IT Academy Program** under which students obtain hands-on skills and experience that they need to succeed in technology careers. The students access various courses which include classroom and online learning. The students also earn valuable Microsoft certification/s.
- A **Centralized Research Lab** has been set up to promote healthy and meaningful research. The aim is to educate students and facilitate training in the critical application of research in the field of Science. For achieving this purpose, the infrastructure includes a separate Cooling Centrifuge, Orbital Shaker, Deep Freezer, Incubator, Laminar Air Flow, Oven, Autopipette, Microfuge, pH meter etc.

- **Diploma in Medical Lab Technology (DMLT):** This program was introduced in 2014-15. It was introduced to raise the employability of students by giving them practical training as lab technicians.
- **NCCMP (Commerce):** This program named **National Stock Exchange Certified Capital Market Professional Course** was introduced in the college in 2012-13 which acted as a new milestone in raising the employment prospects of the students. The course is designed to make the students competent in Securities Market. Students of any stream are eligible for this four month program.
- The Department of Commerce & Management already has been providing faculty, infrastructure and administrative help to local chapters of the **Institute of Company Secretaries of India and Institute of Chartered Accountants of India**. The college had an ample number of interested students for initiating and promoting this course.

Support for “Slow learners”

The all round development of the students is important to us. We not only award laurels to the meritorious students but also pay equal attention to the “slow learners”. For such students, the college

- Runs special extra classes during the prepatory holidays for revision wherein the faculty helps the students with the queries.
- Has smart classrooms that are equipped with monitors and projectors. The visual-interactive study makes lessons easy for the student.
- Provides extra assignments that are regularly checked by the faculty.
- Provides personal counseling and close monitoring

Exposures of students to other institution of higher learning/corporate/business house etc.

One of the motives of the college is to provide students with an exposure to the real competitive world. For inculcating confidence and leadership qualities in students and preparing them for the interviews and market needs:

- The College has industrial tie-ups wherein the students visit the industries and get first hand experience of the production & marketing process. They also take internships in the industry as per the requirement of the curriculum.
- The Bachelor of Vocation courses enable the students to meet experienced, professional experts and consultants. The students also go for industrial visits.
- The College has an active Placement Cell which facilitates the placement of College students (from the general/vocational/professional streams). Under the aegis of this cell, advertisements related to job opportunities, competitive examinations are displayed on the notice boards and columns published by career guidance experts. The Cell also takes students on industrial trips to expose them to corporate sector and its nuances. The Cell also facilitates the students in seeking part time jobs. The motto ‘Earn While You Learn’ focuses on inculcating in students independence and a sense of employability.

Publication of student magazines

Tyagmurti

Every year the college publishes Tyagmurti - the college magazine which reflects the activities that have taken place during the session and students’ achievements. The students ardently contribute to the college magazine in the form of poems, stories, articles on current affairs, innovations, and sketches. The magazine also has brilliant, innovative and erudite articles in English, Hindi and Punjabi related to various subjects.

Expressions

The Department of Journalism and Mass Communication prints the in-house journal 'Expressions' every year. The journal contains varied content, such as news from the campus, articles, editorials, news analysis, collage and photo features, and other literary content. Students are given the opportunity to work as journalists, designers, sub-editors and photographers in the deadline-driven projects, thus enabling them to have a taste of the real-life industry set up. They are also sent out in the field to get news, given training in writing and editing news and also in photography and design. The journal is designed using the licensed Quark Xpress software available in the Department lab. During the project, students also learn valuable lessons on dedication, self-motivation and team work.

5.1.5 Describe the efforts made by the institution to facilitate entrepreneurial skills among the students and the impact of the efforts.

The institute imparts quality education to facilitate entrepreneurial skills among the students, the college is constantly making efforts to introduce new skill development courses and provide facilities to promote the requisite skills.

Skill Development Courses: The College is running five Bachelor of Vocation courses - B.Voc (Retail Management), B.Voc (Food Processing & Preservation), B.Voc (Agribusiness & Agrarian Entrepreneurship), B.Voc (Fashion Technology & Apparel Design), B.Voc (Hardware & Networking) under UGC scheme (Deen Dyal Upadhyay Kaushal Kendra) and one Diploma course in Medical Lab Technology under COMMUNITY COLLEGE SCHEME. These courses specifically cater to developing requisite skills among the students so that they may be absorbed in the industry or start their own entrepreneurial ventures. A number of such students have already started their own ventures.

On-Job Industrial Trainings: Students of various undergraduate and postgraduate courses are regularly sent for on-job industrial trainings so that they have adequate practical exposure with regard to industry requirements.

Industrial visits: The students are regularly taken for industrial visits wherein they get a hands on experience on of industrial working and setup.

Seminars and Guest Lectures: Various departments organize Guest Lectures by eminent industrialists and entrepreneurs to guide students on how to develop entrepreneurial skills. Post-seminar, the students have an interactive session with the dignitary/dignitaries.

Organization and Management of Events: The students are encouraged to organize and manage various important events of the college such as Blood Donation Camp, **TEDX**, Indian Young Forum (**IYF**), PANACHE, and ECONOPHORIA. It provides an important platform to students to develop organizational and entrepreneurial skills.

Infrastructure and other Facilities: The College provides relevant equipments and infrastructure for students to carry out minor in-house projects over and above the demands of the curriculum.

- Students of Journalism and Mass Communication, and Functional English are encouraged to develop their skills in photography, documentary making and announcements on radio.
- Students of Fashion Designing and Cosmetology are trained to start their small scale business at any stage.
- Students of B.Voc (Food Processing & Preservation) are trained to start their small scale business in bakery items and food preservation.

- Students of Diploma in Medical Lab Technology (DMLT) are being trained to carry out basic diagnostic test.

Master of Enterpreneruship & Family Business (MEFB): This course trainees students to start their own business or promote the family business and become successful entrepreneurs.

Impact of the efforts: Various initiatives of the college have fruitfully resulted in enhancing the knowledge and skills of the students.

- Many of our students have become established freelance photographers, documentary makers and t.v programmers.
- Many of our students have established their own business ventures.

5.1.6 Enumerate the policies and strategies of the institution which promote participation of students in extracurricular and co-curricular activities suchas sports,games,Quiz competitions, debate and discussions,cultural activities etc.

- **Additional academic support,flexibility in examinations**
- **Special dietary requirements,sports uniform and materials**
- **anyother**

The College has well defined policies and strategies to promote participation of students in extracurricular and co-curricular activities, and sports. To give an impetus and platform to students, to discover their talent and hone their skills and artistic potential, there are a number of inter and intra college activities and competitions. These are organized throughout the year in which the students get an opportunity to showcase their talent.

Talent Search Contests are held in the 2nd and 3rd week of August every year. The students are informed about the date, time and venue of these competitions well in advance through various notices. The students short-listed in these talent search contests represent the college in the very prestigious P.U. Zonal Youth and Heritage Festival, and various other inter-college competitions.

Clubs: The various Clubs provide an opportunity to students to participate in various activities like Quiz, debate, declamation contests, theatre and music.

- **The Model United Nations (MUN) Club** of the college exposes the students to worldwide discussions on various subjects, hence preparing them for settlement even at the international level.
- **The English Literary Club** regularly organizes seminars, writing and poetry recitation competitions, theatre, mock interviews, which brings out the latent talent of the students. An English play is staged in the college every year which provides the students a platform to showcase there oratorical and theatrical skills.
- **Planning Forum** under the Department of Economics organizes various seminars, workshops and inter college cultural events.
- **Haritima-The Environment Club** of the college organizes an annual tree plantation drive which instills in students a responsibility towards the environment.
- **ENACTUS**, Our college is one of the 70 prominent colleges of india for having one chapter of ENACTUS - an international non profit organization. At present ENACTUS is working on two projects Jevik Kisan Haat (project Agriculture) in collaboration with Kheti Virast Mission(KVM).
- **National Service Scheme (NSS):**The College has a NSS Unit which conducts a seven day camp for students every year. This camp focuses on inculcating in students sincerity, and a sense of responsibility towards their nation and fellow beings. They perform and participate in various activities such as the cleanliness drive, 'green audit' (tree plantation), and craft beautiful and useful things out of waste. The students also work as volunteers at medical camps and educate people on various

social issues. The students are given awards at the end of the event. Such activities help the students in joining various NGOs and social upliftment programs.

SPIRIT INDIA, a voluntary organization under the aegis of NGO 'Aavahan' registers more than 100 students annually. Under this program, the students participate as volunteers towards helping the socially deprived by educating them, providing free medical aid, and celebrating various festivals with them. This program helps the students realize their duties as responsible citizens.

Following steps are taken to ensure support to students:

- Flexibility in examinations in the form of re-examination (internal) which is held for the students who fail to make the passing grade.
- Personal teachers' support through extra classes.
- Exemption to the students who participate at regional, state, national and international levels in various activities. They are provided extra classes at the teachers' level.

Due attention is paid to the **sports and games** at college to add a significant dimension to our students' overall development:

- Scholarships and freeships are given to the students who excel in sports and games.
- Scholarships are also offered by the Sports Department of the Chandigarh Administration for different games.
- Free boarding, lodging facilities are provided to the students engaged in various sports activities.
- A relaxation in attendance is provided to players who participate in University tournaments, national and international events. However, they are required to attend at least 50% of the lectures in each subject during the entire academic session.
- Players are provided sports kit, uniforms and other material.
- A refreshment of Rs. 150/- is provided to the players in case they are playing a match for the whole day.
- The players are provided refreshment of Rs. 80/- per match.
- Rs. 40/- is paid for refreshment to each player for 10 days before the tournament. They are also provided refreshment at the time of the tournament.

The College has an excellent sports faculty that works with dedication towards bringing out the best in their students. It is owing to the excellent training facilities that the college offers that we have produced various sportspersons of international and national repute.

5.1.7 Enumerating on the support and guidance provided to the students in preparing for the competitive exams, give details on the number of students appeared and qualified in various competitive exams such as UGC-CSIR-NET, UGC- NET, SLET, GATE/ CAT/ GRE/ TOFEL/ GMAT/ Central/ State services, Defense, Civil Services,etc.

The college has well placed and well defined arrangement to lend guidance and provide support to its students who aspire to take various competitive exams. Many students of the college have cleared many of these competitive exams and have brought laurels to their alma-mater.

- The college has spent an amount of **Rs 76,500/- (Under RUSA) and Rs 7,00,000/- (UGC)** to provide **free coaching classes** for various competitive exams. Special attention is given to students from SC/ST OBC and economically weaker section.
- The well-equipped library has numerous books and magazines on various competitive examinations.
- The faculty furnishes the students with the upcoming deadlines and guidance for

various competitive exams.

- Around 20-30% students are able to clear various competitive exams and around 65% of our students proceed for higher education through university entrances for post graduation and higher studies such as M.Phil, Ph.D etc.

5.1.8 What type of counseling services are made available to the students (academic, personal, career, psycho-social etc.)

There is a provision to help the students decide the best course, and counsel the students on personal and psycho-social aspects of life.

- **Career Counseling Cell:** Detailed profile of each prospective student is prepared at the time of the admission and personalized career counseling sessions are conducted by the faculty.
- The college runs a very active counseling cell '**Manasuday**' that caters to various emotional needs of the students. In addition to this, the cell also organizes regular **Career Counseling Programmes**.
- Special Counseling Sessions are held with the students residing in hostels to facilitate their adjustment and to cater to their special emotional needs.
- **The Psychology Club 'Asthesia'** conducts intelligence and psychometric tests in which students are scientifically tested for their aptitude, interest, personality.
- Maximum teacher support is provided to the students outside the class as well.
- The **Alumni** are actively involved in providing academic support and career counseling to students.

5.1.9 Does the institution have a structured mechanism for career guidance and placement to fit students? If 'yes', detail on the services provided to help students identify job opportunities and prepare themselves for interview and the percentage of students selected during campus interviews by different employers (list the employers and the programmes).

The college's has a structured mechanism to guide and counsel the students.

- **Career Counseling:** The College has a career counseling headed by trained counselor to provide personalized guidance & counseling to the students.
- **Placement Cell:** In order to facilitate the placement of students, the college has constituted and developed a very dynamic and vibrant placement cell on the campus. On an average 16%-25% of the students get placed with reputed companies each year. The placement cell corresponds with the prospective recruiters, arranges pre-placement discussions and workshops and provides all the facilities for the visiting companies. Over the previous few academic sessions, several reputed companies have visited the college campus for placements.

Table 5.4

Year	Number of companies	Number of students who participated	Number of students shortlisted/Selected
2014-15	24	844	152
2013-14	17	742	167
2012-13	15	677	171
2011-12	13	985	164

Table 5.5
Companies visiting the college from 2011-15:

S.No	Name of the company	S.no.	Name of the company
1	IBM	24	Corporation Bank
2	Earnst & Young	25	CSC India
3	Dell	26	I Gate
4	South Indian Bank	27	EClerx
5	Infosys Technologies	28	Jaro education
6	Google	29	FINVASIA
7	KPMG	30	Bharti Airtel
8	3M advertisers	31	Hindustan Levers
9	WIPRO	32	Flextronics
10	Ind-Swift Labs	33	Godrej & Boycee
11	Jubilant Chemisis	34	Trident
12	Panacea Biotech	35	PIBM Pune
13	Z S Associate Ltd.	36	Yuvshala
14	Protiviti	37	Sap Lab Pvt Ltd
15	Tiger wealth Management	38	Decathlon Sports India
16	Karvy Consultant	39	HDFC Sales
17	Trustline	40	Federal Bank
18	Catholic Syrian Bank	41	Lowe Lintas
19	HCL Technologies	42	India Bulls
20	Janus Packaging	43	Royal Bank of Scotland
21	Infosys BPO	44	MATRIX Cellular services
22	Ranbaxy	45	Bank of America
23	WIPRO Technologies	46	Ultrarich.Com

- **Extension Lectures:** In order to spread awareness among the students vis-à-vis the current trends in the market and to ready them for the market and corporate needs, the college arranges and organizes extension lectures by professional consultants and experts from reputed public and private organizations regularly on the college campus.
- **Training sessions:** Training sessions on how to tackle job interviews are conducted periodically. Mock interviews are held to give a first hand experience of facing the interview.
- **National Cadet Corps (NCC) Unit:** The College has an active NCC Unit that provides training to cadets (students) who aspire to become officers of the armed forces. They are provided training for three years where in they are taken for field work and exercises, and provided academic sessions. Each year 90 students get enrolled in the NCC Unit. Until now 10 students have succeeded in becoming proud officers of the armed forces.

5.1.10 Does the institution have a student grievance Redressal cell? If yes, list (if any) the grievances reported and redressed during the last four years.

Yes, the institution has in place a Student Grievance Redressal Cell comprising of Head of

the Institution, Dean Student Welfare, Dean Cultural Affairs, Coordinator IQAC and President of the student council. We have also put up complaint/Suggestion boxes at different locations on the campus. The members of the cell take up the problems of the students.

5.1.11 What are the institutional provisions for resolving issues pertaining to sexual harassment?

In compliance with the Act of Parliament and Policy of the Panjab University, Chandigarh, the College has a duly constituted committee against sexual harassment.

- The Committee assists in resolving the cases on the campus through mediation and consultation.
- The Committee coordinates with the security staff to devise ways and means by which a system of gender sensitive crisis management is put in place.
- The Committee also organizes training workshops for students, academic staff, non-teaching staff, employees and service providers to sensitize them against sexual harassment of women at workplace. Self-defense training for girls is occasionally conducted.
- As per the norms of the committee, any complainant may file a complaint with the committee within three months from the date of incident and in case of a series of incidents, within a period of three months from the date of the last incident.

5.1.12 Is there an anti-ragging committee? How many instances (if any) have been reported during the last four years and what action has been taken on these?

The college has put in place stringent measures to check and ward off any incidence of ragging. For this purpose an anti ragging committee is in place chaired by the Principal of the college.

From the past four years there has been no evident case of ragging in the college.

5.1.13 Enumerate the welfare schemes made available to students by the institution.

The college has made available to students many welfare schemes. The college provides medical facilities, accidental insurance and other student welfare schemes.

Medical

- If any student falls sick or suffers from any medical emergency during the college hours, medical assistance is provided to him/her and all the expenses of the treatment are borne by the college.
- There is also a provision that the college would meet all the medical expenses of any hosteller if he/she happens to be hospitalized during his/her stay in the college hostel.
- The college has a tie up with a private hospital INSCOL, Chandigarh, to provide emergency medical assistance to the students.
- All the students of the college have been covered under the accidental insurance scheme to the tune of Rs. 1,00,000/-. The policy covers the following events:

Death

Loss of two limbs/two eyes

Loss of one limb/one eye

Permanent total disability from injuries

Permanent partial disability

In addition to the above, the policy will provide for reimbursement of medical expenses, subject to a limit of Rs.500, incurred by any student for his/her treatment in

a hospital/nursing home as in-patient, for any injury sustained in an accident during the session. These claims will be settled by the insurance company.

Scholarships and Freeships The College disburses scholarships and freeships to the needy and meritorious students (Refer table 5.1 & 5.2)

5.1.14 Does the institution have a registered Alumni Association? If 'yes', what are its activities and major contributions for institutional, academic and infrastructure development?

The college has a registered Alumni Association. The college enjoys a sense of accomplishment and motivation through its alumni. Many of the alumni have tremendous accomplishments to their credit as they are placed at prominent positions in various prestigious professions.

The SD Alumni Association (SDAAC) regularly organizes and participates in various college activities for the benefit of the current batches.

- The Alumni Association conducts various events for social causes. A Blood Donation Camp is held annually by the alumni. The alumni also generate funds for the noble cause.
- The alumni are actively involved in providing academic support to the current batches. They provide: Placement training to the students, Career counselling sessions to the students, Special free lectures and seminars pertaining to various topics, Job opportunities and placements to the final year students and post graduate students
- The alumni also take the students from current batches for Chartered Accountant training and internship.

5.2 Student Progression

5.2.1 Providing the percentage of students progressing to higher education or employment (for the last four batches) highlights the trends observed.

Student progression	%
UG to PG	80-85%
PG to M.Phil.	12%
PG to Ph.D.	10%
Employed	40%
• Campus selection • Other than campus recruitment	

5.2.2 Provide details of the programme-wise pass percentage and completion rate for the last four years (course wise/ batchwise as stipulated by the university)? Furnish programme-wise details in comparison with that of the previous performance of the same institution and that of the Colleges of the affiliating university within the city/district.

Table 5.6
Under Graduate Courses

Year	2011-12	2012-13	2013-14	2014-15
Course	Pass Percentage			
B.A	90	79	92	96.94
BBA	99	98	98	98.67
B.Com	99	97	99	99.02
BCA	95	88	99	96.16
B.Sc	90	75	90	97.46
B.Sc (Biotech)	98	100	93	97.14
B.Sc(Bio-Infomatics)			100	97.71

Post Graduation Courses

Year	2011-12	2012-13	2013-14	2014-15
Course	Pass Percentage			
M.B.E	97	97	100	97.5
M.Com	100	100	100	99.82
M.E.F.B	93	43	100	76.65
M.Sc(Applied Chemistry)	100	92	100	97.54
M.Sc (Biotech)	100	100	100	100
M.Sc(Bio-info)	100	100	100	91.65
Msc (IT)	100	68	100	99.98
PGDCA	40	75	69	99.98
PGDMM	100	71	100	92.15
PGDPM &LW	100	100	100	
PGDMC	72	73	87	
MA (Economics)				94.5
M.Sc (Physics)				96.06

Our college has achieved a great reputation in academics by attracting all the top scorers to our institution for admissions in various courses. The admissions to Bachelors of Commerce (B.Com) First year are centralised and done through the merit lists provided by Punjab University. Counselling as well as admissions is done in University itself by the representatives of various colleges in tricity. The highest scorers and top rankers in the merit lists opt to take admissions in our college as our total seats get filled on the very first day. The cut off score for B.Com admission has been highest for our college in many years. In the year 2015, our cut off score was 113.2 and 110.8 for U.T. and General Pool respectively.

5.2.3 How does the institution facilitate student progression to higher level of education and/or towards employment?

The institution facilitates student progression to higher level of education and/or towards employment through the efforts of various agencies and departments in the college. The college has well placed and well defined arrangement to lend guidance and provide support to its students who aspire to go for higher education or employment.

- The college is running self financed courses for UGC NET coaching.
- The well equipped library has books and magazines on UGC-NET,SLET, ATE/CAT/GRE/TOFEL/GMAT/Central/Stateservices, Defense,CivilServices,etc.

The faculty furnishes the students with the upcoming deadlines and guidance regarding various competitions.

- The college prepares students for getting admission to prestigious universities. Many of our students have successfully got admission in **foreign universities / Institutes like University of Edinburgh, Scotland, UK, School of Medicine, Wayne State University, Detroit, USA, University of New Orleans, USA, University of Nebraska, USA, Illinois Institutes. of Technology, USA, UBC James Hogg Research Center for Cardiovascular & Pulmonary Research, Canada University of California, Monash Institute of Medical Research, Australia , Kings' College, London, New York Institute of Technology, USA, University of Toledo, USA, University College Davis, USA, Edinburg University, UK.** Some of our students joined prominent research institutes like **IMTECh PGIMER, NIPER, JNU, IIT Delhi ,IISER, IIT Rorkee & Thapar University Patiala** to name a few. The Placement Cell prepares its students for suitable jobs by enhancing their employability skills. Placement cell invites the corporate trainers/experts in various disciplines and conducts various workshops/seminars/ lectures to sharpen student's aptitude. Proper honing of their skills is done by taking mock interviews, holding Group Discussions etc. Students are also encouraged to attend various seminars and orientation programmes related to higher education to get suitable placement opportunities.

5.2.4 Enumerate the special support provided to students who are at risk of failure and dropout?

Students are made to observe pattern of exams and improve on important topics for priority learning.

- Exclusive 'Remedial Classes' are held for students weak in performance, where they can improve on topics with better understanding of concepts and subject knowledge. The college has spent an amount of **Rs 56,500/- (under RUSA) and Rs 7,00,000/- (Under UGC) for the purpose.**
- Psychological testing is also conducted to determine the ability of the students which further helps in setting appropriate study goals for them. Behavioural and emotional counseling is provided to the students by the faculty of Department of Psychology, which helps them in developing a routine to enhance their study habits. Group counseling sessions are conducted as well for students to prevent the risk of failure and drop outs.

5.3 Student Participation and Activities

5.3.1 List the range of sports, games, cultural and other extracurricular activities available to students. Provide details of participation and program calendar.

The college provides a range of sports (both indoors and outdoors) and other cultural and extracurricular activities for the wholesome development of the students. Following is the detailed list of facilities and participation.

Table 5.7
Sports Facilities Outdoor

S.No	Name of the Sports	Facility	Area
1	Boxing Stadium	Yes	23 ft x 23 ft
2	Basket Ball	Yes	94 feet long and 50 feet wide
3	Ball Badminton	Yes	44 feet long 20 ft wide
4	Volley Ball	Yes	60 feet long by 30 feet wide.

5	Kho Kho	Yes	29x16 mtrs
6	Athletics	Yes	200 mtr track
7	Handball	Yes	40x20mtr
8	Netball	Yes	100x50 feet
9	Net	Yes	100x50 feet
10	Archery	Yes	Space Availabe in College Ground
11	Softball	Yes	300 feet
12	Baseball	Yes	300 feet

Sports Facility Indoor

S.No	Name of the Sports	Facility	Area
1	Badminton	Yes	44x 20feet (3 Courts)
2	Table Tennis	Yes	Portable Table
3	Chess	Yes	1 Room
4	Yoga	Yes	Space available in Auditorium
5	Gymnastics	Yes	Space available in Auditorium
6	Best Physique	Yes	Space available in Auditorium

Details of participation

Table 5.8

Year 2015-16

S.No	Name of the Sports	Level	Championship	Gold	Silver	Bronze	Participation
1	Chess (M)	National		-	1	1	
2	Golf	National	Runner's Up	-	1	-	
3	Rowing	National		1	-	-	
4	Shooting	State		-	1	-	
5	Judo(M)	State	Champions	3	5	3	
6	Judo(W)	State	Champions	3	5	3	
7	Rowing	State		2	-	-	
8	Basketball (M)	State	Champions	4	-	-	
9	Chess(M)	NZIU		-	1	-	
10	Tennis(W)	NZIU	3 rd Place	-	-	2	
11	Kabaddi	NZIU	3 rd Place	-	-	3	
12	Tennis(M)	NZIU	3 rd Place	-	-	1	
13	Basketball (M)	NZIU	Champions	4	-	-	
14	Chess (M)	AIU		-	-	-	Yes

15	Swimming	AIIU		-	4	-	
16	Kabaddi	AIIU	3 rd Place	-	-	3	
17	Water Polo	AIIU	Champions	4	-	-	
18	Yachting	AIIU	Runner's Up	-	1	-	
19	Boxing(M)	AIIU		-	-	-	Yes
20	Boxing (W)	AIIU		-	-	-	Yes
21	Wrestling (M)	AIIU		3	-	-	
22	Fencing(M)	AIIU		1	1	3	
23	Fencing(W)	AIIU		-	3	2	
24	Kayaking	AIIU		-	-	1	
25	Canoeing	AIIU		-	-	2	
26	Swimming	PUIC	3 rd Place		1	11	
27	Table Tennis	PUIC	3 rd Place	-	-	2	
28	Chess(W)	PUIC	4 th Place	-	-	-	
29	Chess(M)	PUIC	4 th Place	-	-	-	
30	Water polo	PUIC	Champions	13	-	-	
31	Tennis(W)	PUIC	Runners' Up	-	2	-	
32	Gymnastics	PUIC		1	1	1	
33	Boxing(W)	PUIC		1	-	1	
34	Badminton (M)	PUIC	3 rd Place	-	-	2	
35	Table Tennis (M)	PUIC	Runners' Up	-	2	-	
36	Boxing (M)	PUIC	Champions	4	3	1	
37	Kabaddi(M)	PUIC	Runners' Up	-	12	-	
38	Yachting	PUIC	Runners' Up	-	2	-	
39	Ball Badminton	PUIC	3 rd Place	-	-	10	
40	Cricket	PUIC	Champions	16	-	-	
41	Basketball	PUIC	Runners' Up	-	12	-	
42	Wrestling (M)	PUIC	Champions	4	-	3	
43	Athletics	PUIC		2	-	-	
44	Fencing (M)	PUIC	Runners' Up	-	4	-	
45	Fencing(W)	PUIC	Runners' Up	-	4	-	
46	Baseball	PUIC	Runners' Up	-	16	-	
47	Netball(M)	PUIC	3 rd Place	-	-	12	
48	Taekwondo (M)	PUIC	3 rd Place	3	1	-	
49	Taekwondo (W)	PUIC	4 th Place	1	-	2	
50	Gatka (W)	PUIC		1	-	-	
51	Judo(M)	PUIC	Runners' Up	-	2	-	
52	Softball (M)	PUIC	Runners' Up	-	12	-	
53	Best Physique	PUIC		-	1	-	
54	Wrestling	PUIC		-	1	1	

55	Rowing	PUIC		-	-	2	
56	Kayaking	PUIC	3 rd Place	6	1	6	
57	Canoeing	PUIC	3 rd Place	-	-	1	
Total				77	100	79	

Year 2014-15

S.No	Name of the Sports	Level	Championship	Gold	Silver	Bronze	Participation
1	Skiing	International	-	-	-	-	24 th Asian Alpine Skiing Championship Yongpyong Korea
2	Taekwondo	National	-	1	-	-	-
3	Chess (M)	National	-	1	-	-	-
4	Athletics	National	-	-	3	-	
5	Judo	National	-	-	-	1	-
6	Fencing (W)	National	-	-	-	4	-
7	Badminton	National	-	-	-	-	All India Ranking Tournament
8	Boxing (M)	National	-	-	-	-	Senior National Boxing Championship
9	Skiing	National	-	-	-	-	National Skiing Championship Auli Uttrakhand
10	Swimming	National	-	-	-	-	National Games
11	Rowing	National	-	-	-	-	National Games
12	Taekwondo	State	-	4	-	2	-
13	Boxing	State	Runner's Up	3	3	-	-
14	Judo	State	-	3	-	-	-
15	Table Tennis	State	-	2	2	-	-
16	Judo	State	-	2	-	-	-
17	Badminton	State	-	-	-	2	-
18	Wrestling	AIU	-	1	-	-	-
19	Swimming	AIU	-	1	-	-	-
20	Basket Ball	NZIU	-	1	-	-	-
21	Softball	AIU	-	-	1	-	-
22	Table Tennis(M)	NZIU	-	-	1	-	-
23	Table Tennis	NZIU	-	-	1	-	-
24	Chess (M)	NZIU	-	-	1	-	-
25	Fencing	AIU	-	-	-	4	-
26	Chess(M)	AIU	-	-	-	-	Yes
27	Archery	AIU	-	-	-	-	Yes

28	Water Polo	AIIU	-	-	-	-	Yes
29	Shooting	AIIU	-	-	-	-	Yes
30	Squash	AIIU	-	-	-	-	Yes
31	Netball	AIIU	-	-	-	-	Yes
32	Lawn Tennis	AIIU	-	-	-	-	Yes
33	Kabaddi	NZIU	Runner's Up	-	3	-	-
34	Kabaddi	AIIU	-	-	-	1	-
35	Boxing	AIIU	-	-	-	-	Yes
36	Ball Badminton	AIIU	-	-	-	-	Yes
37	Judo	AIIU	-	-	-	-	Yes
38	Baseball	AIIU	-	-	-	-	Yes
39	Powelifiting	AIIU	-	-	-	-	Yes
40	Cricket	AIIU	-	-	-	-	Yes
41	Badminton	AIIU	-	-	-	2	-
42	Badminton	NZIU	-	-	-	1	-
43	Table Tennis	PUIC	Champions	5	-	-	-
44	Lawn Tennis	PUIC	Champions	5	-	-	-
45	Ball Badminton	PUIC	Champions	10	-	-	-
46	Fencing	PUIC	Champions	8	3	-	-
47	Water Polo	PUIC	Runner's Up	-	13	-	-
48	Netball	PUIC	Runner's Up	-	12	-	-
49	Boxing	PUIC	Runner's Up	3	-	3	-
50	Swimming	PUIC	3 rd Place	-	1	18	-
51	Chess	PUIC	3 rd Place	-	-	5	-
52	Cricket(M)	PUIC	3 rd Place	-	-	16	-
53	Basketball	PUIC	3 rd Place	-	-	12	-
54	Gatka(W)	PUIC	3 rd Place	-	1	3	-
55	Judo(W)	PUIC	3 rd Place	1	1	-	-
56	Wrestling	PUIC	3 rd Place	1	-	-	-
57	Baseball(M)	PUIC	-	-	-	-	Yes
58	Badminton	PUIC	-	-	-	-	Yes
59	Tennis(W)	PUIC	-	-	-	-	Yes
60	Handball	PUIC	-	-	-	-	Yes
61	Judo(M)	PUIC	-	-	2	1	-
62	Rowing	PUIC	-	-	-	1	-
63	Athletics(W)	PUIC	-	2	-	-	-
64	Taekwondo	PUIC	-	1	-	2	-
65	Gymnastics	PUIC	-	1	-	1	-
66	Fencing	PUIC	-	1	1	2	-
67	Boxing(W)	PUIC	-	-	-	1	-
Total				57	49	82	

2013-14

S.No	Name of the Sports	Level	Championship	Gold	Silver	Bronze	Participation
1	Judo	International	-	-	-	-	Yes, Junior Asian Championship China
2	Badminton	National	-	1	-	-	-
3	Shooting	National	-	2	-	-	-
4	Boxing	National	-	-	-	3	-
5	Chess(M)	National	-	-	-	-	Yes, Sr. National Men Championship
6	Chess (M)	National	-	-	-	-	Yes, Under 25 Men Championship
7	Korfball(M)	National	-	-	-	-	Yes, 4 th in Sr. National Korfball Championship
8	Handball	National	-	-	-	-	Yes, Jr. National Championship
9	Netball	National	-	1	-	-	-
10	Fencing	National	-	-	-	1	-
11	Kayaking	National	-	-	-	-	Yes, Sr. National Championship
12	Taekwondo	State	-	1	2	-	-
13	Athletics	State	-	-	1	-	-
14	Boxing	State	Champions	4	2	1	-
15	Badminton	State	-	1	1	-	-
16	Judo(W)	State	-	2	-	-	-
17	Chess(M)	State	-	1	-	-	-
18	Judo	AIU	-	1	-	-	-
19	Baseball	AIU	Champions	2	-	-	-
20	Swimming	AIU	-	1	2	-	-
21	Water polo	AIU	-	-	-	-	Yes
22	Diving	AIU	-	-	-	-	Yes
23	Boxing	AIU	-	1	-	3	-
24	Badminton	NZIU	Champions	1	-	-	-
25	Badminton	AIU	Runner's Up	-	1	-	-
26	Handball	NZIU	-	-	-	-	Yes

27	Handball	AIIU	Runner's Up	-	2	-	-
28	Kayaking	AIIU	-	-	1	1	-
29	Wrestling	AIIU	-	-	-	1	-
30	Taekwondo	AIIU	-	-	-	1	-
31	Fencing(W)	AIIU	-	-	-	2	-
32	Softball	AIIU	Runner's Up	-	2	-	-
33	Basketball	NZIU	Champions	3	-	-	-
34	Basketball	AIIU	Runner's Up	-	2	-	-
35	Table Tennis(W)	NZIU	Runner's Up	-	2	-	-
36	Chess	NZIU	Runner's Up	-	2	-	-
37	Chess	AIIU	-	-	-	-	Yes
38	Netball	AIIU	-	-	-	-	Yes
39	Lawn Tennis	NZIU	-	-	-	-	Yes
40	Kabaddi	NZIU	-	-	-	-	Yes
41	Judo(W)	AIIU	-	-	-	-	Yes
42	Swimming	PUIC	Champions	16	3	9	-
43	Basketball	PUIC	Champions	12	-	-	-
44	Kayaking	PUIC	Champions	13	7	-	-
45	Canoeing	PUIC	Champions	2	-	-	-
46	Table Tennis	PUIC	Champions	5	-	-	-
47	Wrestling	PUIC	Champions	4	1	1	-
48	Netball	PUIC	Champions	12	-	-	-
49	Yachting	PUIC	Champions	2	-	-	-
50	BallBadminton	PUIC	Runner's Up	-	10	-	-
51	Chess(W)	PUIC	Runner's Up	-	5	-	-
52	Lawn Tennis	PUIC	Runner's Up	-	5	-	-
53	Kabaddi	PUIC	Runner's Up	-	12	-	-
54	Fencing(W)	PUIC	Runner's Up	2	4	2	-
55	Boxing	PUIC	Runner's Up	4	-	-	-
56	Boxing(W)	PUIC	3 rd Place	2	-	-	-
57	Water Polo(M)	PUIC	3 rd Place	-	-	13	-
58	Squash	PUIC	3 rd Place	-	-	3	-
59	Rowing	PUIC	3 rd Place	-	-	7	-
60	Korfball	PUIC	3 rd Place	-	-	16	-
61	Baseball(M)	PUIC	-	-	-	-	Yes
62	Chess(M)	PUIC	-	-	-	-	Yes
63	LawnTennis	PUIC	-	-	-	-	Yes
64	Badminton	PUIC	-	-	-	-	Yes
65	Fencing	PUIC	-	-	2	2	-
66	Judo(M)	PUIC	-	-	-	-	-
67	Taekwondo	PUIC	-	1	-	-	-
68	Judo(W)	PUIC	-	-	1	-	-
69	Power Lifting	PUIC	-	-	1	-	-
70	Best Physique	PUIC	-	-	1	-	-
Total				97	72	66	

2012-13

S.No	Name of the Sports	Level	Championship	Gold	Silver	Bronze	Participation
1	Badminton	International	-	-	-	-	Yes, Grand Prix Gold International Tournament
2	Badminton	International	-	-	-	-	Yes, Bahrain International Tournament
3	Fencing	National	-	-	-	1	-
4	Boxing	National	-	-	-	-	Yes, Senior National
5	Taekwondo	National	-	1	-	-	-
6	Badminton	National	-	-	-	-	Yes, National Championship
7	Table Tennis	State	-	2	-	-	-
8	Wrestling	State	Champions	-	-	-	-
9	Boxing	State	Champions	3	3	1	-
10	Badminton	State	-	2	-	-	-
11	Best Physique	State	-	-	-	-	Yes
12	Handball	NZIU	-	-	1	-	-
13	Wrestling	AIU	-	-	-	1	-
14	Taekwondo	AIU	-	1	1	-	-
15	Basketball	NZIU	Champions	4	-	-	-
16	Basketball	AIU	Champions	4	-	-	-
17	Yachting	AIU	Champions	1	-	-	--
18	Best Physique	AIU	-	-	-	-	Yes
19	Judo	AIU	-	-	-	-	Yes
20	Boxing	AIU	-	-	-	-	Yes
21	Fencing	AIU	-	-	-	-	Yes
22	Fencing(W)	AIU	-	-	-	1	-
23	Cricket	AIU	-	-	-	-	Yes
22	Softball	AIU	-	-	-	1	-
23	Table Tennis(W)	AIU	-	-	-	-	Yes
24	Netball	AIU	-	-	-	1	-
25	Boxing	PUIC	Champions	5	1	3	-
26	Wrestling	PUIC	Champions	4	-	2	-
27	Taekwondo	PUIC	Champions	3	1	-	-
28	Table Tennis	PUIC	Champions	5	-	-	-

29	Best Physique	PUIC	Runner's Up	2	-	-	-
30	Judo	PUIC	Runner's Up	2	1	-	-
31	Boxing (W)	PUIC	-	-	1	-	-
32	Basketball	PUIC	Runner's Up	-	12	-	-
33	Handball	PUIC	Runner's Up	-	16	-	-
34	Netball	PUIC	Runner's Up	-	12	-	-
35	Athletics	PUIC	-	-	-	2	-
36	Baseball	PUIC	3rd Place	-	-	16	-
37	Cricket	PUIC	3rd Place	-	-	16	-
38	Softball	PUIC	3rd Place	-	-	16	-
39	Fencing (W)	PUIC	3rd Place	1		1	-
40	Yachting	PUIC	3rd Place		1	1	
41	Fencing	PUIC	-	1	-	3	Yes
42	Lawn Tennis	PUIC	-	-	-	-	Yes
43	Korfball	PUIC	-	-	-	-	Yes
Total				41	50	66	

5.3.2 Furnish the details of major student achievements in co-curricular, extracurricular and cultural activities at different levels: University/ State/ Zonal/ National/ International, etc.for the previous four years.

Our college has been regularly participating in PU **Zonal** Youth and Heritage Festivals, PU **Inter-Zonal** Youth and Heritage Festivals and other Intercollege cultural events.

2015-16

The college won the **overall trophy** in Chandigarh Zone-A in PU **Zonal** Youth and Heritage Festival, we won 51 prizes.

Total Prizes	51
First	15
Second	20
Third	16

- The college also participated in many Intercollege competitions.

2014-15

The college won the **overall trophy** in Chandigarh Zone-A in PU **Zonal** Youth and Heritage Festival, we won 39 prizes.

Total Prizes	39
First	9
Second	17
Third	13

- PU **Inter-Zonal** Youth and Heritage Festival, the college won 7 prizes. One 1st prize, one 2nd prize and five 3rd prizes.
- College also represented Panjab University in **North India Zonal** Youth and Heritage Festival in Cartooning.
- The college also participated in many Inter-college competitions and won 18 prizes.

2013-14

In PU **Zonal** Youth and Heritage Festival, we won 31 prizes.

Total Prizes	31
First	10
Second	10
Third	11

- In PU **Inter-Zonal** Youth and Heritage Festival, the college won 3 prizes.
- The college also represented Panjab University in **North India Zonal** Youth and Heritage Festival.
- The college also participated in many Inter-college competitions and won 20 prizes.

2012-13

In PU **Zonal** Youth and Heritage Festival, we won 26 prizes.

Total Prizes	26
First	3
Second	11
Third	12

- College represented in PU **Inter-Zonal Youth** and Heritage Festival.
- The college also participated in many Intercollege competitions and won 20 prizes.

2011-12

In PU **Zonal** Youth and Heritage Festival, we won 21 prizes.

Total Prizes	21
First	5
Second	7
Third	9

- PU **Inter-Zonal** Youth and Heritage Festival
- The college won the first prize in Debate
- College also represented Panjab University in **North India Zonal** Youth and Heritage Festival.
- The college also participated in many Inter-college competitions.

5.3.3 How does the college seek and used feedback from its graduates and employers, to improve the performance and quality of the institutional provisions?

The college has a well defined proforma to seek feedback from students and other stake holders .The feedback is obtained about the course, course content, relevance and delivery by the teacher. Regular feedback is obtained from outgoing students. The data is thoroughly analysed by the IQAC and communicated to the staff members for the improvement. It is also used to evaluate the performance of the faculty and to plan strategies to provide quality teaching, better infrastructure, positive changes and improvement in the course delivery and the learning technology. It helps in upgrading the teaching-learning process.

5.3.4 How does the college involve and encourage students to publish materials like catalogues, wall magazines, college magazine, and other material ?List the publications/materials brought out by the students during the previous four academic sessions.

The college follows a regular practice of publishing an annual magazine named ‘Tyagmurti’ and a newsletter titled “Expressions” by the Department of Journalism and Mass

Communication. These publications contain content on various topics, such as news from the campus, feature articles, editorials, news analysis, collages and photo features, and other literary content. Our students have been contributing articles in newspapers. The main objective of these publications is to promote and foster writing habits amongst students and an inclination towards a literary expression. Members of the editorial committee along with the help of student editors of the magazine, encourage the students from both the undergraduate and postgraduate classes, to make contributions to the college magazine in form of articles, stories, poems, essays, write ups etc. The material for publication is invited through written notices and also by way of announcements in various classes. Special workshops in creative writing and guidance sessions for students are also organised at times. In addition, the talent of student writers is also tapped by holding different writing competitions for the students in the college from time to time. The students are given the opportunity to work as journalists, designers, subeditors and photographers in the deadline-driven project, therefore, enabling them to have a taste of the real-life industry set up. They are also sent out in the field to get news, given training in writing and editing news and also in photography and design. Students have the creative liberty to work on the design and the content, which vary each year. Students are motivated to prepare articles/write-ups by taking guidance from teachers and by accessing latest information from the on campus IT Centre and College library. Teachers also extend their support to students in their writing pursuits by suggesting them topics and by supervising their quality of language and style of expression. Talented students are also provided a platform to showcase their creativity by participating in the designing of brochures for some of the seminars organised in the college. Students maintain wall magazines to post their articles and share their messages with other members of the institution.

Catalogues	2015-16	2014-15	2013-14	2012-13
College Magazine	Published	Published	Published	Published
Wall Magazine	Published	Published	Published	Published
Campus Reporter	Published	Published	Published	Published
News Letter	Published	Published	Published	Published
News Clippings	Published	Published	Published	-
Year Book	Published	Published	Published	-
Journals	Published	Published	-	-

5.3.5 Does the college have a Student Council or any similar body? Give details on its selection, constitution, activities and funding.

Yes, the college has an elected student council with representation of both girls and boys. The selection of The Central Association is done according to the instructions provided by the Panjab University. The Student Council/Central Association plays a pivotal role in organizing various activities on campus and has representative from various classes as well as sports and cultural activities. The college supports and funds the activities organised by the student council.

5.3.6 Give details of various academic and administrative bodies that have student representatives on them.

The president of the student council is a member of the IQAC, ADC, CCASH, Alumni Association and Student Grievances Redressal Cell.

5.3.7 How does the institution network and collaborates with the Alumni and former faculty of the Institution.

We have a well established, proactive Alumni Association that helps in placing our students

for internships and also guiding them for various job prospects. The colleges also have a Retired Faculty Association that meets twice in a year. The college makes it a point to invite the retired faculty to every function of the college. Some of the retired are also offered teaching assignments in college.

Any other relevant information regarding Student Support and Progression which the college would like to include.

Part Time Jobs to students

The college has started a practice of offering part time jobs on campus to needy students to support them financially and also to train them handle administrative jobs.

CRITERION VI: GOVERNANCE, LEADERSHIP AND MANAGEMENT**6.1 Institutional Vision and Leadership**

6.1.1 State the vision and mission of the Institution and enumerate on how the mission statement defines the institution's distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, institution's traditions and value orientations, vision for the future, etc.?

Since its inception in 1973, GGDSD College has been imbued with many milestones, each outdoing the last. Drawing strength from its core foundational Sanatanist values, the college has kept pace with the changing times, thereby, emerging as one of the Premier Institutions of Higher Learning in the region.

Our Vision

To emerge as a centre of excellence in the country imparting quality education, providing research facilities and consultancy services that meet the requirements of today's global market and societal needs.

Distinctive characteristics

- Goswami Ganesh Dutta Sanatan Dharma College have been led by the '**vision**' of eminent stalwarts with great valour, initiative, sacrifice and faith. It was established in the revered memory of Goswami Ganesh Dutta Ji, who envisioned Chandigarh as a focal point of culture and saw it as a potential hub for Sanatanist activities.
- His dream materialized under the dynamic leadership of Late Pt. Mohan Lal Ji, former Education, Home and Finance Minister, Punjab. With his profound efforts, the college was firmly grounded on the bricks of principles and values, proudly telling the world about its very character in its motto '**Firm in Faith and Broad in Mind**'.
- Pandit ji was joined in his untiring efforts by the luminary Prof. Roshan Lal Verma Ji, the founder principal of the college, who donated his entire life's savings in setting up this institution. Right alongside was his wife Ms. Kaushalaya Devi Verma Ji who too, selflessly bequeathed her entire property to the college. The assets that she donated to the institute were later used to form a trust which helps provide support to the women of the economically weaker sections by providing them excellent career oriented courses and training facilities, absolutely free of cost.
- In keeping with its vision , the College is educating the youth through focused learning and research, so as to create and enhance teamwork and leadership qualities, make them excel in knowledge, confidence, interaction and communication, thus making a momentous contribution to the society through its role in preparing and ensuring student to serve as basic building block of our society.

Mission

The mission of the College is in consensus with its vision - "To serve the society at large, by means of imparting knowledge, inculcating values and imbibing academic excellence in the students of emerging India, with commitment, dedication and devotion of the Staff and Management".

Our Mission

To disseminate knowledge that nurtures students to meet the highest standards of competence and professionalism along with grounding them firmly in a sound value system.

Distinctive characteristics

- 'Quest for Excellence' in every field has been the distinct aim of the College. Through its academic policy, extension activities and co-curricular activities, it helps the students in acquiring knowledge and develop skills for their successful careers. They are promoted for scholastic expression and delivery by projects, seminars, training and placement interviews, practical exposure by industrial visits, education tours etc. Wide range of extension activities are conducted, to sensitize them with societal issues and develop human equalities.
- The College has been setting benchmarks of unprecedented success without compromising on quality and value based education in commercial, professional, vocational, industrial and technical streams, toppers in studies, champions in sports and heroes in extra-curricular activities year after year. We equip and empower students to realize their dreams effectively and make their mark on the global landscape by unleashing their potential.

With a strong foundation of innovation and compassion coupled with invincible moral, ethical, spiritual Sanatanist Values, the mission of the college is,

- To train and educate students, and developing in them outstanding ability, thus promoting them to become prospective innovators and new product creators.
- To provide ICT based quality education to students making the system cooperative, friendly and more approachable to the students.
- To digitize system of imparting lectures, course related queries and availability of study materials, attendance, general and library information.

6.1.2 What is the role of top management, Principal and Faculty in design and implementation of its quality policy and plans?**Role of Top Management**

The top Management is highly responsive, extremely committed and exceptionally dedicated to execute its role in management and optimization of the resources in order to fulfill the requirements of higher education. The Management exercises its power to provide the infrastructural, financial, and legal facilities to plan, document, implement, continually improve in its higher education academics and maintain the standards through its Quality Policy and Effective Administrative System.

The Management governs by its constitution laid down under the aegis of GGDSD College Society, registered in Societies Registration Act XXI of 1860. It comprises of a Governing Body and Managing Committee. The policy implementation and reformation is constantly reviewed keeping in mind the societal requirements and organizational goals. It gives sufficient autonomy to the Principal of college to function in order to chalk out extensive plans and strategies to bring the college on the national map of India.

With the aim to fulfill the vision and mission of the college, Principal and Faculty members have regular staff meetings to discuss upon design and implementation of policy and plans regarding various issues, like -

- compliance to the class regulations and discipline among students,
- assignment of duties and responsibility to carry out departmental activities,
- ensuring conformity of teaching learning process,
- promote interaction and suggestions,
- arrange special lectures/seminars/workshop for students,
- provide opportunities for students with placement training and recruitment drives,
- conduct outreach activities, co-curricular activities, sports and cultural events,
- encourage students for real time practical exposure through educational visits/excursions,
- improvement of results and student progression
- provision of special forums for students for motivation, stress management and knowledge enhancement
- orientation of faculty towards innovation and research

The college ensures proper implementation of **quality policy** and plans because of -

- Excellent communication and interpersonal relationship at all levels, top management with the Principal, and Principal with the staff and students,
- Participative working environment for all staff members and managing authorities,
- Positive approach of Management and Principal, transparency in operations,
- Separate groups/ teams/ inter-intra departmental committees preparing college documents, managing plan execution, and collecting /maintaining related information.

6.1.3 What is the involvement of the leadership in ensuring:

- **The policy statements and action plans for fulfillment of the stated mission**
- **Formulation of action plans for all operations and incorporation of the same into the institutional strategic plan**
- **Interaction with stakeholders**
- **Proper support for policy and planning through need analysis, research inputs and consultations with the stakeholders**
- **Reinforcing the culture of excellence**
- **Champion organizational change**

The policy statements and action plans for fulfillment of the stated mission

Action plan and policy implementation starts with the institutional vision and mission. The action plans for operations are prepared under the supervision and guidance of the Principal and Heads of the Departments. Teaching schedule, time table arrangements, and various committees are initiated into their defined roles in formulating and achieving the plan implementation.

Formulation of action plans for all operations and incorporation of the same into the institutional strategic plan

The college has an Internal Quality Assurance cell with members from staff and management. It is a facilitative and participative organ of the institution. The prime task of the IQAC is to develop a system that improves the overall performance of the institution by removing the deficiencies and enhancing the quality.

IQAC of the college works continuously to generate and implement innovative academic ideas and practices to enhance the academic and administrative performance of the institution. It meets regularly to discuss various issues of college performance, improvement needed, required materials and encourage suggestion to accelerate the required direction for strategy development. To address the service and facilities, IQAC works upon skill development, new teaching aids, better equipments, sophisticated instruments in laboratories, and resource generation to cater growing demands.

IQAC along with Principal and College Governing Body enforce execution of policies decided and discussed by its members to strengthen the courses, increase the job orientation of the students, provide means of revenue generation, conduct activities of placement and counselling cell to attract employers, automation of college, office and library, and to provide better facilities to students as well as faculty to improve the overall college performance in order to meet the standards of higher education.

Major functions of IQAC are –

- Acting as a nodal agency of the college for coordinating quality-related activities, including adoption and dissemination of best practices.
- Documentation and maintenance of reports and records of various college activities, for the purpose of analysis and enhancement, thus leading to quality improvement.
- Development of Quality Culture in the institution by disseminating information on various quality parameters of higher education.
- Preparation of the Annual Quality Assurance Report (AQAR) as per guidelines and parameters of NAAC, to be submitted to NAAC
- Facilitating the creation of a learner-centric environment conducive to quality education and faculty development.
- Arrangement for feedback response from students, parents and other stakeholders on quality-related institutional processes.

All policy statements and action plans are formulated only after careful consideration by the Principal.

Interaction with stakeholders

The aim of college is to ensure that all stakeholders are involved in its activities. It maintains a continuous communication with all stakeholders. Students, being the main stakeholders are treated as the centre of all activities and many curricular and co-curricular activities are conducted for their benefit. The College interacts with the parents of the students. It maintains relationship with the Police and Security department so that the safety of the College is ensured.

The management believes in employee satisfaction which will lead to student satisfaction. Teachers are admired for their clarity of vision, passion for work and excellence. The Principal of college is dedicated to proper delegation of work by identifying the right person for the right job, motivating them to achieve excellence, recognizing them, allowing them to be recognized, and promote them to deliver their best. Teachers are also encouraged to take up research and publish in reputed journals. Teachers completing PhD are given cash incentives. The supporting staff is also encouraged to participate in inter and intra college activities.

Reinforcing the culture of excellence

Participative environment and continuous motivation by the management reinforce the culture of excellence in the college. Regular workshops/FDPs/instructional skills workshop (ISW) is organized for faculty to update them in the recent trends in teaching, learning and other professional needs. Participation in various National and International conferences makes faculty to be able to identify emerging needs of the society and address them through organizational interventions. Students are interested to follow strict discipline, at the same time they are encouraged to present their knowledge and talent through various activities, function and fest conducted by the college.

Champion organizational change

Pioneers in management, academics, and technical field take care of the dynamic changing educational environment. Prior to implementation of any policy/plan, a feasibility study is made. Regular meetings at various levels ensure the development and up gradation in terms of infrastructure and teaching-learning resources in order to meet the champion organizational change.

6.1.4 What are the procedures adopted by the institution to monitor and evaluate policies and plans of the institution for effective implementation and improvement from time to time?

Procedures adopted by the College to monitor and evaluate policies and plans:-

- Regular meetings are held to review the progress
- The academic session begins with the meeting of the Principal with all the staff members.
- Then Individual Departments meet the Principal to discuss the plan of their departments for the current session.
- The HoD's conduct departmental meeting to discuss about the teaching plan, requirements of books and other learning resources.
- Teaching methods like the '*chalk and talk*' is supplemented by more interactive learner oriented techniques like seminar, role play, quiz, case studies, projects etc. ICT enabled teaching is practiced to make the lesson interesting as visuals have a greater impact on the learner.
- Feedback is obtained on curriculum design and the same is reviewed and implemented if it means value addition. The internal quality assurance cell (IQAC) of the college compiles the suggestions and develop an annual action plan.
- Various committees constituted for different tasks ensure collection of adequate information, review action strategy, and carry out needful tasks to fulfill the requirements / deficiencies.

6.1.5 Give details of the academic leadership provided to the faculty by the top management?

The top Management believes in academic excellence through the support and performance by its students and staff members. The example set by our great visionaries, who established the college by their profound efforts is the means of motivation for leadership and management of discipline and curriculum in the college. Exposure to long term constant

learning experience makes the individual to work in the best possible manner within the stipulated time. Participation in seminars, workshops, orientation and refresher courses, trains individuals to evolve to better towards best learning methods.

A healthy working atmosphere is created by invitation and participation of all staff members to meetings and discussions about various issues. The Principal is very vigilant about discipline, commitment and devotion towards the work allotted to the staff.

Overall the Management ensures constant upliftment of its working members by instilling in them a sense of belonging, commitment and dedication.

6.1.6 How does the college groom leadership at various levels?

All the staff members are involved in all the activities in the College. The senior staff members are appointed as conveners of various committees and are given full autonomy in decision making. Various co-curricular and extra-curricular activities are conducted through student committees with office-bearers. In this way the College grooms leaders at higher levels, teaching staff, non-teaching staff and students.

6.1.7 How does the college delegate authority and provide operational autonomy to the departments / units of the institution and work towards decentralized governance system?

The Management gives sufficient freedom to the Principal, who is the academic head of the institution to function in order to fulfill the vision and mission of the institution. Academic responsibilities are fairly divided among all the staff members. Committees are appointed for the various academic and co-curricular activities to be conducted in the course of the academic year. The responsibilities are communicated to the faculty members through regular staff meetings.

The participative decision-making ensures total participation of all the people concerned. The Heads of Departments monitor the functioning of the various departments. The office administration of the College is headed by the Office Superintendent, under whom there are Technical Assistants, Junior Assistant, Clerks, Steno-typist and Class IV employees. Principal in consultation with Registrar and the respective Deans co-ordinate the overall college and individual departmental activities. Chief Warden along with deputy chief warden and warden is responsible for hostel management. For other different tasks there are separate coordinators for the proper conduction of related activities.

6.1.8 Does the college promote a culture of participative management? If yes, indicate the levels of participative management.

The Management is always open to discussion with the teaching and non-teaching staff which, in turn, encourages the involvement of the staff for the improvement of effectiveness and efficiency of the institutional process. There are regular meetings of office bearers and Management representatives.

The Principal appoints teachers as chairpersons and members of various committees which also have student representation. Staff members working in various committees provide their individual creativity and skills. This has created a sense of involvement and responsibility among all the staff members resulting in efficient administration of the college.

6.2 Strategy Development and Deployment

6.2.1 Does the Institution have a formally stated quality policy? How is it developed, driven, deployed and reviewed?

The College is committed to impart quality education with excellence. The aim is to empower the youth with professional competence and knowledge, along with moral and ethical values, so as to make them proficient, innovative and socially responsible individuals, thus giving valuable contribution to the society.

A formal avowal of quality policy is reflected in the participative working environment of staff and students having open communication with the Principal, and, in the curricular as well as extra-curricular activities of the college. A number of seminars, workshops, conferences, academic fests, competitions, and different outreach activities are conducted by the college from time to time with active participation of teachers and students. Deployment of activities is done by

- Providing best infrastructure and interactive learning environment.
- Building a harmonious and motivating work culture.
- Including latest technological trends in the field of education.
- Inviting dignitaries, experts in the field to expose students in the practical world.

The College management along with IQAC constantly works upon planning and effective implementation of the activities. The Principal of the College takes initiative to ensure apposite co-ordination between conveners and organizing committees. The Heads of Departments and teachers co-ordinate and plan their individual departmental activities and report to the Principal accordingly. The non-teaching staff also works under the instructions of the Principal, thereby coordinating the entire administrative work.

The Principal monitors the carried out activities and preparation of reports and collects details of the conducted events. Different reports such as Departmental Reports, Annual Report, Campus Reporter, Hostel Report, Conference/ Workshop Brochures, College Year Book, Published Proceedings, Commerce Journal, and entire achievement of college in 'book form' of collected published newspaper clips every year, becomes the base for analyzing and evaluating the overall performance of the college.

6.2.2 Does the Institute have a perspective plan for development? If so, give the aspects considered for inclusion in the plan.

For the last many years, the college has been on the path of continuous development in several aspects. It has opened many self-financed courses resulting in the number of students increasing year by year. The aspects thus included in the future development plans are:

- Physical infrastructure and more smart classrooms.
- Professional Courses that can create more job opportunities for students.
- Strengthening of student support services.
- Improvement of students' performance in academics, co and extracurricular activities.
- Enhancing computer literacy and soft skills among students of every stream.
- Encouraging research initiatives and innovative studies.
- Making the campus Eco friendly and Centre of Excellence in education.

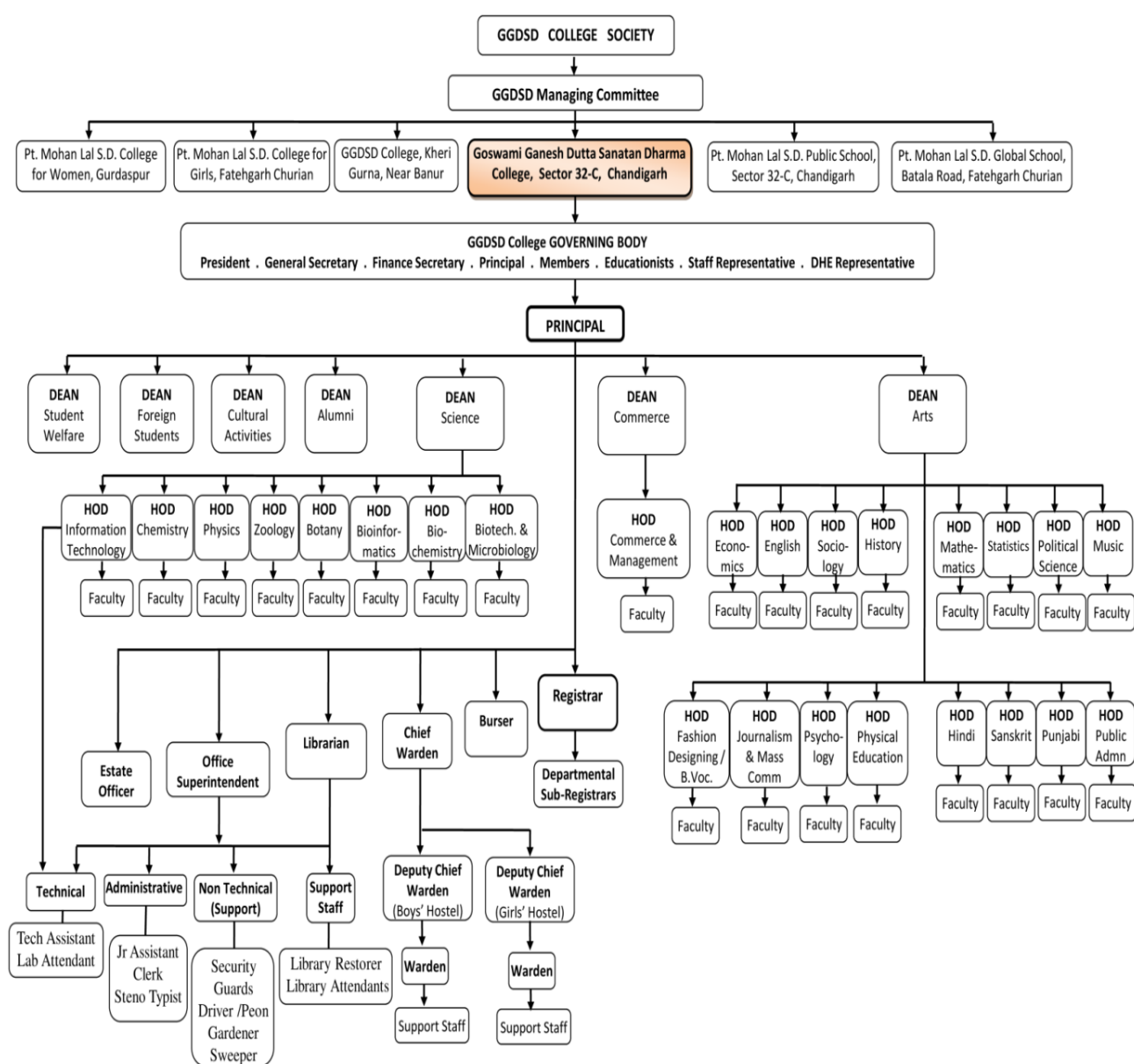
6.2.3 Describe the internal organizational structure and decision making processing.

Under the aegis of GGDSD College Society, following six institutions have been established:

- **Goswami Ganesh Dutta Sanatan Dharma College, Sector 32-C, Chandigarh.**
- Pt. Mohan Lal S.D. Public School, Sector 32-C, Chandigarh.
- Pt. Mohan Lal S. D. College for Women, Gurdaspur.
- Pt. Mohan Lal S. D. College for Girls, Fatehgarh Churian.
- GGDSD College, Kheri Gurna, Near Banur.
- Pt. Mohan Lal S.D. Global School, Batala Road, Fatehgarh Churian.

The GGDSD Managing Committee, under GGDSD College Society, is responsible to take care of these six institutions. The administration of GGDSD College Sector 32-C, Chandigarh is managed by GGDSD Governing Body. The Principal of the College is directly accountable to the Governing Body. Entire administration, academic schedule, college activities and integral management of office bearers, teaching and non teaching staff, is handled under direct supervision of the Principal.

The following chart depicts the internal organizational structure with distribution of employee responsibility helping in smooth administration of the institution.



6.2.4 Give a broad description of the quality improvement strategies of the institution for each of the following.

- **Teaching & Learning**
- **Research & development**
- **Community engagement**
- **Human resource management**
- **Industry interaction**

Teaching & Learning:

The teaching - learning process is facilitated through highly qualified and experienced faculty. Teachers are encouraged to take initiatives for major/minor projects with research aptitude, publish papers in quality journals, attend seminar/workshops/FDPs to acquire new knowledge, conduct invited guest lectures, organize and coordinate academic competitions/quiz/excursions, and work as members for various committees/board of studies. The college, thus, motivates every individual faculty for being a lifelong learner by continuously enhancing their skills.

Students are encouraged to use library and internet facilities apart from their routine class schedule. Use of ICT in delivery of lectures act as an effective teaching-learning tool. Better teaching methods are adopted laying emphasis on precise description of concepts with more diagrammatic approach, thereby guiding students to a better presentation of their answers.

Students are made to observe pattern of exams and improve on important topics for priority learning. Bright Students are selected from every stream and special 'Meritorious Classes' are arranged for them, enhancing their knowledge, expression and answer writing skills, thus to grab top university positions. For students weak in performance exclusive 'Remedial Classes' are also held, where they can improve on topics with better understanding of concepts and subject knowledge.

Both teacher and students are encouraged and made to adopt and practice quality teaching-learning strategies with an aim to -

- Bring down the dropout rate of students by improving their pass percentage.
- Regularize the attendance of students in the classrooms.
- Create a learner-centric system of learning in the classrooms.
- Organize training sessions for teaching staff for self enhancement, enabling them to use ICT technology in the classrooms.
- Collect and analyze feedback from students for further enhancement of learning process.

Research & Development: Research has been considered as an important integral part of the academic endeavours in the College. Various Conferences, Seminars, Workshops and Guest Lectures are organized by the College every year to provide advanced information on research methodology. The College promotes active participation of teaching staff in research oriented projects, instructional skill workshops, FDPs and motivates them to pursue higher studies of M.Phil./Ph.D. The faculty completing their higher degree is further encouraged with awards and recognition by the college management. Efforts are made for research proposals and resource facilitating grants from funding agencies in order to carry out research oriented tasks. The college avails grant from DBT, Govt. of India and has been successfully utilizing it for research projects and PhD program in the Science Department. The college is

also working on proposals for implementation of collaborative research projects with reputed research organization/s.

Community Engagement: The College is engaged in several community development activities. Marginalized women are provided self employment opportunities by teaching them basics of computer, stitching, and fashion designing courses free of cost under ‘GGDSD College Kaushalya Devi Charitable Trust’. The college has two dynamic units of N.S.S. containing 100 male and female volunteers each. The N.S.S. and N.C.C. units of the college organize various community and national development programmes like N.S.S. Camps, free medical camps, Motivational Lectures on social issues, and Blood Donation Drives on various occasions. Cleanliness and Social Awareness Drives such as Swachh Bharat Abhiyan, women empowerment, fighting corruption, alcoholism etc. are conducted by SPIRIT INDIA, a student volunteer group of GGDSD college under the aegis of the NGO “AAVAHAN”.

Human Resource Development: The Principal of the college plans optimum utilization of available human resources by effectively deploying the administrative and teaching staff. IQAC collects information about the publications and participation of faculty in academic, co-curricular and extra-curricular activities. The teacher is required to update IQAC regularly by enumerating the papers published/presented at conferences / seminars/ journals, number of published books/chapters, invited expert lectures and provide details of refresher courses / orientation programs/ FDPs/ Workshops he/she has attended. Apart from regular teaching schedule, the faculty is assigned to carry out responsibilities of different tasks of the college as well as departmental data maintenance. Office personnel are provided with latest configuration devices and are continuously trained to learn online processing for fast transaction of financial matters, speedy admission procedures and effective student/exam data maintenance. The custom web based ERP solution ‘TCS iON’ has been successfully implemented for record maintenance and routine processing. As a result all faculty members, technical staff, library staff, administrative and office bearers are encouraged to work online.

Industry Interaction: Experts are invited from various fields to deliver guest lectures and industrial visits are arranged. The Career Guidance and Placement Cell are working actively in the college. Many students are placed every year in different organizations through campus interviews conducted in our college, in collaboration with prominent industries. Industry experts are invited in conferences and seminars to deliver lectures and interact with the staff and students.

6.2.5 How does the Head of the institution ensure that adequate information (from feedback and personal contacts etc.) is available for the top management and the stakeholders, to review the activities of the institution?

The Principal of college conducts regular staff meetings, invites suggestions in meetings for quality sustenance and enhancement, sets up various task oriented committees, arranges general presentations among students, communicate with students’ council, and is responsible for creating an interactive environment where staff, students and their parents can directly avail necessary information. The review of activities of college is based on feedback collected from students on quality of education, provision of resources etc. through feedback forms which they are required to fill in different occasions like convocation, prize distribution, alumni meet etc. The review is also based on published news about the college, reports of successful implementation of short/long term plans, accomplished best practices / outreach/ sports activities, conduct of academic events (seminar/workshops etc.), recognition

of the college in terms of released grants, award/s by reputed organization, and interaction with University/Higher Education Department.

The Principal collects analyzed data of feedback/reviews from IQAC and communicating head of respective committees. He then discusses viable points in further meetings with top management/stakeholders briefing improvement scopes, and invite inputs for enhancing institutional progress by inclusion of novel ideas and exploration of new avenues.

6.2.6 How does the management encourage and support involvement of the staff in improving the effectiveness and efficiency of the institutional processes?

The Management through the Principal involves the staff members in various activities related to the development of the college. While introducing anything new to the teaching and non-teaching staff, the objectives of the task to be implemented are communicated. For framing of policies, plans, and execution of projects, various Committees are constituted by the Principal at the beginning of each academic year. These committees are responsible for the particular projects assigned to them and are accountable to the Principal for their progress. Periodic meetings are organized by the Principal along with the Committees in order to review the progress and problems faced, if any, in the implementation of the plans/projects.

6.2.7 Enumerate the resolutions made by the Management Council in the last year and the status of implementation of such resolutions.

The College Governing Body holds quarterly meetings presided over by the President where the plan, academic calendar, addition to the infrastructure, faculty improvement, appointment and approvals are discussed, and in this regard resolutions are passed. In the corresponding next meeting/s, the report of the actions taken in the previous meeting are discussed and the said resolutions are confirmed. Meeting of GGDSD College Society and the College Governing Body are held, where performances and reports of the college is presented and status of the implementation of the decisions taken in the College Governing Body are discussed.

The resolutions that were taken to enhance college performance last year can be briefly stated as follows:-

- To extend the infrastructure of the college with new administrative block, and utilize the present edifice for various new courses and/or classes.
- To implement total automation of the college system through Tata Consultancy Services.
- To conduct Instructional Skills Development Workshop for the continuous development of the faculty.

Status of Implementation:-

- The construction of the new administrative block is in full swing and is expected to be ready by May 2016.
- The college has hired the services of TCS and has successfully implemented total automation of the college system. It provides maintenance of online students' attendance, their profile, online admission process, college accounts, online teachers' profile, their salary processing details, other library information, online examination records and, supports various related queries.
- Last year five ISWs have been successfully conducted and 31 faculty members have been trained.

6.2.8 Does the affiliating university make a provision for according the status of autonomy to an affiliated institution? If 'yes', what are the efforts made by the institution in obtaining autonomy?

Yes, the affiliating university has given a provision for according the status of autonomy to an affiliated institution.

6.2.9 How does the Institution ensure that grievances/complaints are properly attended to and resolved effectively? Is there a mechanism to analyze the nature of grievances for promoting better stakeholder relationship?

The college conducts an induction program for the first year students wherein they are provided with all the relevant information which will make their campus life a memorable one. However in case there is dissatisfaction over an issue following channels are used:

- There is an open door policy. Students and staff can directly approach the Principal or Registrar or Deans for problems which require urgent attention and they are considered immediately.
- The Student Council selects representatives from each class and individual student representative from the college. They convey the requirements of the students to the authorities.
- There is a duly formed Grievance Redressal Cell for students, teaching and non-teaching staff members.
- The institution has an Anti-Ragging Committee which determines the punishment for those who are the guilty of an offence, depending upon the nature and gravity of offence.
- The college has Committee Against Sexual Harassment which functions actively against unwelcome acts or behavior in the campus.
- There are suggestion boxes which are reviewed regularly.
- Students also provide information through feedback forms and also by responding to the information sought through our website.

6.2.10 During the last four years, had there been any instances of court cases filed by and against the institute? Provide details on the issues and decisions of the courts on these?

Some of the students approach the court when they are detained because of their utter non compliance to the college regulations, and they file an appeal to get through the situation, but normally the court gives verdict in favor of the college.

6.2.11 Does the Institution have a mechanism for analyzing student feedback on institutional performance? If 'yes', what was the outcome and response of the institution to such an effort?

Yes, the college has an effective mechanism for analyzing student feedback on institutional performance. The feedback forms on institutional performance are filled by the students from time to time and during various functions such as Convocation function, Prize Distribution function etc. These forms are collected and analyzed by IQAC. Besides, students can communicate any problem they are facing in the department or college, directly to their class teachers or HOD. The college has placed suggestion boxes in different areas of the campus in which students can also put their complains/suggestions. Also, informally constructive suggestions from student representatives are entertained in the interest of the institution. These feedbacks are analyzed, discussed and implemented on a priority basis.

The outcome of such efforts is that our students are free and open minded to give any requirements or suggestions which are beneficial for their personal and educational growth. Keeping in view the feedback of students, practical classes are augmented, various workshops and seminars are conducted as well as industrial trainings are increased, so that students can interact with the intellectuals and enhance their knowledge.

6.3 Faculty Empowerment Strategies

6.3.1 What are the efforts made by the institution to enhance the professional development of its teaching and non-teaching staff?

The college makes constant efforts to enhance and enrich the professional development of its teaching and non teaching staff. With a belief in the value-based, culture oriented and quality education, the college is committed to organize various training programmes every year with proper planning, inviting experts in the field to encourage practical exposure and personal growth of the staff.

A brief of the steps taken in this regard is as follows -

Instructional Skills Workshop (ISW): It is a unique initiative taken by GGDSD College where selected participants from the staff are given special training by an invited expert as 'ISW Instructor'. The workshop conducted at international level in association with University of Fraser valley, Canada, imparts a highly specialized training designed to enhance the teaching effectiveness of both new and experienced educators. After undergoing the training under ISW Instructor, the trained participants are qualified as 'Instructional Skills Facilitator' in conducting next ISW. Thus, a subsequent chain of teacher training is formed wherein every faculty member of the colleges under GGDSD College Society is covered under this ISW faculty program. The main thrust of the said 'ISW : Train the Trainer' workshop is to make teachers learn to become not only their own, but, also their peer group evaluators to develop and sharpen their skills regarding teaching methodologies. ISW helps the teaching community to enhance their skill set and strengthen teacher student dissemination of knowledge.

Faculty Development Program (FDP) / Personality Development Program (PDP): The college regularly conducts FDPs/PDPs on various subjects for enhancement of knowledge and teaching practices of the staff.

ICT Training Program : Special training programs are conducted, where teachers are required to attend the workshop to learn '*automation module*' being implemented in the campus in collaboration with Tata Consultancy Services. The non teaching technical staff, clerks and accounts office bearers are also given training to effectively utilize online record maintenance and routine processing through ERP software **TCSion**.

Workshops: The College regularly conducts workshops for students and teachers giving practical exposure with hands on session in different fields covering various subjects.

Orientation / Refresher Courses : Faculty is encouraged to attend Orientation and Refresher Courses conducted by Academic Staff College, Panjab University and/or by other universities within a stipulated time period.

Conference/Seminar/Guest Lecture : The college facilitates its faculty members for interactive learning by organizing various Conferences / Seminars / Guest Lectures, wherein faculty gets an opportunity to listen and interact with experts from industry and academia to enhance their skills.

Higher Studies/ Projects: College believes in personal faculty growth which in turn will result into the overall growth of the institution. As such faculty members are encouraged to take up *Major/ Minor research projects* in their area of interest. The faculty is also motivated to pursue higher studies in order to acquire M.Phil. and Ph.D. Degree. The publications and research work made by faculty are cited in College Annual Report.

Deputing of Staff in College Activities: The Principal delegates responsibilities / assignments to the staff to carry out various activities at college as well as inter college level. Working as active team member, team leader and communicating head of committees, the professional development of the staff is enhanced.

Award/Recognition: Faculty members are admired for their good work in academia and extracurricular activities. The college recognizes the staff by giving them awards for their achievements, and appreciation for their dedication to the institution at appropriate forum/functions. Teachers completing PhD are given cash incentives. The supporting staff is also appreciated and encouraged for their active participation in college activities.

6.3.2 What are the strategies adopted by the institution for faculty empowerment through training, retraining and motivating the employees for the roles and responsibility they perform?

The college adopts a strategy of 'Modular Approach' where different tasks are executed through proper delegation of responsibilities, disseminating role of every individual faculty for a particular activity.

Before commencement of admission process, routine inhouse college exams (Mid Semester, Test-MSTs), final Panjab University exams, College Functions/Fests, Workshops/Conferences/ Seminars, Blood Donation Camps, Swachh Bharat Abhiyan, NCC/NSS Camps, and other extracurricular activities, a formal meeting is held and notice is served to faculty members to perform their assigned duties. For the purpose, the Principal takes up the initiative to give instructions, which is further explained by senior faculty holding position with committees/departments. Meeting/s are also held during the conduct of the event/activity, whenever/wherever required.

Various workshops, Instructional Skills Workshop(ISW), Guest Lectures, FDP, PDP, Orientation/Refresher courses organized by the college, trains staff to excel their performance.

'Training Programs' are conducted regularly for teachers to demonstrate teaching methodology through Learning Exchange(LX) module, use of e-resource contents EBSCO host online research database, use of campus management solution for admission process, enter attendance/exam marks, leave approval, personal profile update, monitoring students' progression, and various other online data maintenance tasks.

Regular meetings & reviews, collection and analysis of feedbacks and promotion of teamwork by the Principal further develop the over-all competence of the staff. Senior faculty members actively participate in management and administration of college. Their opinions and suggestions are considered for policy making.

In this way teachers are trained and retrained to perform and deliver their best for successful completion of the event/activity. Every dedicated effort is appreciated and praised by the Principal and Senior Faculty which is a venerable motivating factor for the staff.

6.3.3 Provide details on the performance appraisal system of the staff to evaluate and ensure that information on multiple activities is appropriately captured and considered for better appraisal.

The Performance Appraisal System is followed as per the UGC guidelines. Teachers are required to follow a self appraisal method which presents the academic and professional standing of the individual faculty. This inspires and motivates the faculty to conduct innovative programs, actively participate in curricular and co-curricular activities, and also increase the quality and quantity of the research oriented work/ project proposals with good publications.

The self appraisal is done through feedback reports, being collected and analyzed by IQAC, and through duly filled in details by the faculty in a given format giving their major/minor projects, publications, participation in academic and co-curricular activities, expert lectures, member of board of studies/ committees at national/ international level, and their contribution to college activities. The summarized report of feedbacks and individual faculty details is presented to the Principal. The Principal in consultation with IQAC Coordinator, concerned Dean and Head of the Department, find strategies to overcome the limitations, communicate necessary corrective measures, encourage dedicated efforts and give more opportunities to further improve the individual, as well as the overall strength of the staff members.

6.3.4 What is the outcome of the review of the performance appraisal reports by the management and the major decisions taken? How are they communicated to the appropriate stakeholders?

Performance appraisal reports are based on feedbacks and individual faculty details of academic and co-curricular activities collected and analyzed regularly by IQAC. The report is communicated to the Principal. With careful observation and review of report, Principal alongwith concerned senior faculty and IQAC Coordinator, takes decisions for strategies to be followed for better enrichment of the staff. Communication to the staff is done directly by the Principal to the concerned Head of the Department. Those who have satisfactory performance are appreciated at appropriate forums, steps for improvement are taken wherever needed. As a result the faculty is encouraged to work in a more efficient manner, participating in various academic activities, improving upon teaching methodology, and conduct events organized in college with their utmost dedication and sincere efforts.

6.3.5 What are the welfare schemes available for teaching and non-teaching staff? What percentage of staff have availed the benefit of such schemes in the last four years?

The college adopts various welfare schemes for the well being and motivation of its staff. A brief of them is as follows:-

- A separate corpus is created with LIC of India for payment of Gratuity and Leave Encashment as retirement benefits to the staff.
- The college follows a policy EDLI (Employee's Deposit Linked Insurance Scheme) for the benefit of the staff for Life Insurance, incorporated with EPFO which was raised from 3.6 lakhs to 5.5 lakhs w.e.f. 1st April 2015.
- The college provides Master policy of Group Insurance Scheme (GIS) with LIC for its staff members. The amount can be availed in case of any mishapening or at the retirement as per rules of the policy.

- The staff members are given a provision to avail monetary advance from the office for their personal requirements, which they need to return within the current financial year.
- There is a provision of fee concession for the wards of teaching and non teaching staff.
- Medical facilities are provided to the staff with a separate medical room within the campus. A Pharmacist is available to give first aid/customary medicines. The medical assistant works under continuous consultation with two doctors who pay regular visits in the college campus.
- Contribution from Staff to Colleague in case of Death during Service: In case of death of a staff member during his/her service, financial help is given to the family, where the staff members donate 5 day salary for the purpose.

All the staff members who have retired and who are in service have availed of the benefits the welfare schemes.

6.3.6 What are the measures taken by the institution for attracting and retaining eminent faculty?

The college ensures congenial working conditions for the staff in terms of fair selection, UGC Grades, good facilities, well equipped working environment, adequate freedom to work, conducive work culture and transparent administration by identifying right person for the right job.

The college believes in the synergy of work by promoting, delegating and recognizing sincere efforts of its staff. The experienced and eminent faculties are assigned responsibilities in order to carry out essential tasks. Full support is extended to the faculty to take up research oriented activities, deliver expert lectures, coordinate student activities, manage academic excursions and, explore opportunities for their personal as well as college growth with active participation in workshops/ conference/refresher courses etc. The college inculcates enthusiasm in staff to work efficiently by recognizing and appreciating them. Monetary benefits are availed by the faculty for giving duties for external exams other than college exams. The college adopts fair procedure for the selection and recruitment of the staff, as per regulations of Panjab University.

6.4 Financial Management and Resource Mobilization

6.4.1 What is the institutional mechanism to monitor effective and efficient use of available financial resources?

GGDSD College is a Grant in Aid College affiliated to Panjab University, Chandigarh. All decisions related to financial matters of the college are directly handled by the Principal under GGDSD College Governing Body.

The Principal of the college is primarily responsible for looking after routine expenditures and, ensuring effective utilization of financial resources and availed grants.

Preparation and follow up of self financing courses and proposals for grant under different schemes, is managed by task oriented committees constituted by the Principal. Development of campus in terms of infrastructure, equipments, human resource (appointments), activities (academic & extracurricular) is administered by Principal, who disseminates responsibilities to staff or team of experienced faculty wherever required, in order to carry out proper utilization of the collected resources.

To deal with selection, verification and payment process of wares, a purchase committee has been constituted. The various infrastructural requirements relating to classrooms, computer labs, library, equipments required for innovative teaching and other resources are initially forwarded by the concerned HODs / Office bearers, to the purchase committee. After careful observation over requirements specification and invited quotations presented by the committee, the Principal takes final decision, and sanctions requisite budget for the expenditure. The transaction records (bills / vouchers / receipts) for every individual purchase is maintained by Office Superintendent under supervision of the Principal.

6.4.2 What are institutional mechanisms for internal and external audit? When was the last audit done and what are the major audit objections? Provide the details of compliance.

Judicious expenditure of funds ensuring proper procedure for resource utilization is justified with AG Audit (external audit through CA) conducted quarterly for sanctioned grant utilization, and Statutory Audit conducted annually for complete accounts of the college. Last audit was done in the assessment year 2014-2015. No major audit objections were raised and recorded.

6.4.3 What are the major sources of institutional receipts/funding and how is the deficit managed? Provide audited income and expenditure statement of academic and administrative activities of the previous four years and the reserve fund/corpus available with the institution, if any.

The financial resource of the college is mainly obtained through student tuition fees for regular courses, tuition fees from various self financing courses at U.G as well as P.G level, sanctioned grants from Funding Agencies/ DBT/UGC and Salary Grant (Grant in Aid) received from Director Higher Education, UT Chandigarh Administration. Further the college also earns by other means, viz. renting auditorium / use of premises to external examination authorities like bank entrance exams, competitive exams of government organizations judiciary / police personnel /engineers for state electricity board etc. and to other organizations, like council election etc.

The deficit, if any, is managed by the GGDSD College Society by reserved/students fund or through personal loans.

Audited Income and Expenditure Statement of Previous Four Years

Financial Year	Income	Expenditure
2015-16	72892689	80938349
2014-15	98136997	92889402.50
2013-14	70564507	74919353.08
2012-13	95266330	94071602.40

6.4.4 Give details of the efforts made by the institution for securing additional funding and the utilization of the same (if any).

The college has made a number of efforts for receiving additional funding. Grants have been received from the state and central government agencies such as DBT, DST, B.Voc./ Community Colleges/other schemes under UGC, to promote research, innovation and entrepreneurship quality among students and staff. The funds received through various grants are properly utilized under direct supervision of the Principal in accordance with the instructions given by respective funding agency.

Detail of Grants Received in the last four years:**2015-2016**

Funding Agency	Name of Grant / Scheme	Amount (Rs.)			Remarks Other Details
		Sanctioned	Received	Utilization	
UGC	Deen Dayal Upadhyay Kaushal Kendra	46500000	29000000	To be Utilized	NR:1.60 R:130.00
UGC	Remedial Coaching/NET Coaching Classes for SC/ST/OBC/Minority	1900000	1900000	To be Utilized	NR: 13.50 + R: 5.50
UGC	CPE XII Plan	11,00,000 Recurring Grant out of 14000000 Sanctioned in 2014-15	Not received yet	To be Utilized	R: 11.00
UGC	Introduction of Foundation Course: Human Rights Education	235000	Not received yet	To be Utilized	NR: 1.00 + R: 2.35
UGC	Purchase of Equipments under Additional Grant Scheme: CPE-XI Plan:	232000 Non Recurring Grant out of 4820000 Sanctioned in 2011-12	Not received yet	To be Utilized	NR: 2.32
DST	FIST	258058 Grant out of 6850000 Sanctioned in 2011-12	258058	To be Utilized	
DHE, U.T. Chd. Admn.	RUSA	150000	150000	To be Utilized	

NR: Non-Recurring**R:** Recurring

2014-2015

Funding Agency	Name of Grant / Scheme	Amount (Rs.)			Remarks Other Details
		Sanctioned	Received	Utilization	
UGC	B.Voc Programme	18500000	6500000	Fully Utilized	NR:50 + R:15)
UGC	CPE-XI Plan Balance Grant	500000	500000	Fully Utilized	(NR:03 + R:02)
UGC	CPE-XII Plan Grant	14000000	9600000	Fully Utilized	(NR:85 + R:11) Utilization for Recurring, Non-Recurring is for 5 Years
UGC	Community Colleges	1432500	1432500	Fully Utilized	(NR: 4.00 + R:10.325)
DBT	Star College Scheme	2000000	Not received yet	Fully Utilized	(R: 20.00)

NR: Non-Recurring

R: Recurring

2013-2014

Funding Agency	Name of Grant / Scheme	Amount (Rs.)			Remarks Other Details
		Sanctioned	Received	Utilization	
UGC	CPE Phase-II 2nd Installment	2000000	2000000	Fully Utilized	SDC /7423/ 06.03.2014
UGC	Purchase of Equipments under Additional Grant Scheme: CPE-XI Plan	250000 Non Recurring Grant out of 4820000 Sanctioned in 2011-12	250000	Fully Utilized	
UGC	CPE-XII Plan General Development Assistant (UG)	525000	525000	Fully Utilized	
DBT	Star College Scheme	2100000	2100000	Fully Utilized	UC against Rs.1 Lakh Pending

2012-2013

Funding Agency	Name of Grant / Scheme	Amount (Rs.)			Remarks Other Details
		Sanctioned	Received	Utilization	
DBT	Star College Scheme	1598000	1598000	Fully Utilized	
UGC	CPE-XI Plan: General Development Assistant (UG&PG): F.No.2-2(11)2007	5100000	2400000	Fully Utilized	
UGC	Purchase of Equipments under Additional Grant Scheme: CPE-XI Plan:	2088000 Non Recurring Grant Out of 4820000 Sanctioned in 2011-12	2088000	Fully Utilized	SDC/6318/21.0 6.2013
UGC	BSR	4000000	4000000	Fully Utilized	SDC/6369/20.0 6.2013
UGC	Merged Scheme XIth Plan	1170000	1170000	Fully Utilized	Combined UC
DST, UT Chd.	Project : Dr.Jasveen Dua	70000	70000	Fully Utilized	SDC/7442/21.0 3.2014
UGC	M.Sc. Applied Chemistry:	320000	320000	Fully Utilized	SDC/6527/16.0 8.2013
DST	FIST Program	in 2010-11: 6850000	5800000 Grant out of 6850000 Sanctioned in 2011-12	Fully Utilized	

2011-2012

Funding Agency	Name of Grant / Scheme	Amount (Rs.)			Remarks Other Details
		Sanctioned	Received	Utilization	
UGC	Purchase of Equipments under Additional Grant Scheme: CPE-XI Plan	2250000 Non recurring Grant out of 4820000 Sanctioned in 2011-12	2250000	Fully Utilized	
UGC	CPE (Phase II):	2500000	2500000	Fully Utilized	SDC/7423/06.0 3.2014
UGC	M.Sc. Applied Chemistry	320000	320000	Fully Utilized	
UGC	MEFB	140000	140000	Fully Utilized	SDC/5337/12.1 2.2012
DBT	Star College Scheme	1600000	1600000	Fully Utilized	
UGC	Career Oriented Courses	2160000	2160000	Fully Utilized	
CREST	International Year of Chemistry Celebrations	22000	22000	Fully Utilized	SDC/47/2 01.2012

CRITERION VII: INNOVATIONS AND BEST PRACTICES**7.1. Environment Consciousness****7.1.1. Does the institute conduct a Green Audit of its campus and facilities?**

Environment issues are taken up in all seriousness on the college campus. A complete record of trees, old and new, growing on the campus is maintained and all trees are duly marked. No unauthorized felling/cutting of trees is permissible on the campus. More than 650 trees are being maintained on the campus. Whenever a tree dies and requires being removed/uprooted, a stringent policy of planting four plants in place of one is followed.

7.1.2 What are the initiatives taken by the college to make the campus eco-friendly?

- **Energy conservation**
- **Use of renewable energy**
- **Water harvesting**
- **Checkdam construction**
- **Efforts for Carbon neutrality**
- **Plantation**
- **Hazardous waste management**
- **e-waste management**

Energy conservation

In order to implement energy conservation plan on campus, the college has switched to the usage of LED, as a major step forward in the direction. The new air-conditioning units are supported by VRV machines, installed for energy conservation.

Use of renewable energy

The automation process for college admissions, daily record of students' attendance and leave requests, etc has led to the minimization of paper usage and is overall an environmental friendly step. The paper used in the college office is selected from the 'green paper' category, i.e. the recycled variety of paper. This is a conscious decision to cause fewer burdens on the environment, an effort towards carbon neutrality.

Water harvesting

A rainwater harvesting plant of the 80x20x15 feet dimension on the college campus is maintained.

Efforts for Carbon neutrality

The covered area limits, permissible under local law, are strictly adhered to and the uncovered areas are fully maintained with a proper green cover all around. Developing and maintaining green grounds on the campus is a part of keeping environmental consciousness going. In the upcoming structures, building blocks have been used instead of bricks. It is an environment friendly effort to save energy in cooling the building through air conditioners. Maximum sunlight is being used by providing large windows. Provision of Rain Water harvesting for recharging the ground water has been made.

Plantation

Every year, a number of new trees are planted on the campus, which in turn leads to spreading environmental awareness amongst students also.

Hazardous waste and e-waste management

The college has constituted a committee to manage e waste and Hazardous waste. We hire the services of vendors who recycle the waste.

7.2. Innovation**7.2.1. Give details of innovations introduced during the last four years, which have created a positive impact on the functioning of the college.**

Our college has always tried to introduced innovation that creates an impact on the functioning of the college .Some of the innovations introduced during last four years are :

Part-time Jobs on Campus: Economically weak students are offered part-time jobs on the campus. This is to facilitate financial assistance and to train them in administrative skills for their future endeavors. This is directly helping the students gain professional confidence and in-house training.

Complete Automation: With the rise in student strength of the college, it was imperative to update the administrative system to support a smooth functioning of the institution. A committee was constituted that included members of the college IT department and members of non-teaching/office staff, who under the guidance and supervision of the principal and the registrar worked out the details of software requirements of the college administrative work. The committee also identified and finalized the selection of software/modules to be adopted for the purpose. In order to maintain students' record, official data and related documentation, right from the admission process to the section formations of various subjects/classes to maintaining a proper record of students' daily attendance and their awards in the house examination, etc., total automation of the system came handy. In addition, more so, as all this needed to be carried out in a stipulated time could prove rather challenging due to a change in the academic system from annual to semester, as per Panjab University guidelines. The new introduced software has made the functioning more conducive and time efficient.

Learning Exchange Module (LX Module): The college has also worked on (in collaboration with TCSion) hosting learning exchange which proves to have the additional advantage of being rapidly deployable in terms of platform as well as content delivery. A hosted learning solution is ideal in the contemporary scenario, both in terms of infrastructure requirements and cost effectiveness. Apart from being useful for exploring the possibilities of responding to students' needs and expectations and helping course teams formulate pragmatic methods of digitally supporting the system, it can prove to be the basis on which curriculum can be designed and efficiently implemented. It has been established on the basis of student outcome analyses that this LX system is facilitating the conducting of continuous assessments, providing regular feedback to students and ensuring regular improvement of faculty by offering quality interactions with students. In addition, this reduces manual work for teachers and facilitates instant results while eliminating the need for manual evaluation, which in turn gives teachers more time to focus on quality teaching task. This concept is in line with several initiatives undertaken by the Government of India to close skill gap between the academics and industry requirements.

Regular Faculty Development Programmes and ISW (Instructional Skill Workshops)
The relevance of the Faculty Development Programmes (FDP) was discussed and it was decided that regular training programmes for the faculty are organized in order to refresh and

update the teaching staff from time to time as per the need of the modern education system. The FDP is aimed at imparting participatory learning and the building of community that can transfer back into the classrooms and the institution.

The college holds **Instructional Skill Workshops (ISWs)** on regular basis. It has been introduced to facilitate a platform for teachers to upgrade and update themselves in terms of teaching skills and pedagogy. The ISW is offered within a small group setting and is designed to enhance the teaching effectiveness of both new and experienced educators. During the one-week long workshop, the participants design and conduct three mini lessons and receive verbal, written and video feedback from the other participants who have been learners in the mini lessons. The workshop encourages reflection and examination of one's teaching practice with feedback focused on the learning process rather than on the specific content of the lesson.

Appointment of Deans different streams: In order to carry out a systematic running of academic and co-curricular activities in the college, Deans have been appointed for Science, Arts and Commerce stream made. Besides overseeing the routine working of different streams and sorting out any irregularities or problems, if found, the respective Deans are also given the responsibility of planning and organization of and participation in different academic and cultural events like seminars, conferences, competitions, youth festivals and so on. We also have Dean Cultural Affairs, dean Student welfare and Dean Foreign Students to facilitate the students studying in the institute.

7.3. Best Practices

7.3.1. Elaborate on any two best practices in the given format at page number 98, which have contributed to the quality improvement of the core activities of the college

Our college has adopted and has put into practice a number of "Best Practices" over the years, including

- Stress Management Center (Manasuady)
- Part-Time Jobs on Campus
- General Tutorials
- Complete Automation
- Learning Exchange Module (LX Module)
- Donation of Scholarship
- Voluntary Contribution of One-Day Salary by Staff Members
- Faculty Development Programmes
- International Exchange of Faculty
- Award of Incentives to Faculty.
- Accident Insurance Scheme for Students.
- ISW Instructional Skill Workshop

However, the two "Best Practices" that the college would like to highlight are as follows:

Best Practice I

Title of the Practice

Part-Time Jobs on Campus

Goal

The aim of this practice is to support the education of economically weak students by offering part-time jobs to them on campus. This is to facilitate financial assistance and also to train them in administrative skills for their future endeavours. This is directly helping the students to gain professional confidence and in-house training.

The Context

In higher education, new policies are promoting the concept of part-time training and apprenticeship among the students at both undergraduate and postgraduate levels in order to help them build a skill-set for developing proficiency in their professional careers. In line with this endeavour, the college has adopted the practice of providing a platform to its students by offering them in-house part-time jobs during their study tenure in the college. This serves a dual purpose of training the students and financially supporting them as well. Moreover, this practice helps to inculcate in them a sense of commitment and responsibility while carrying out their assigned tasks. Though college is taking initiative in helping needy students by offering them liberal waivers and scholarships, it was observed that some students could not pursue education only with this money. Hence, in some cases, due to extreme adverse financial condition of the student, a decision was made to offer students jobs on campus on part-time basis.

The Practice

As a result of an increase in the students' strength of the college, more hands are required for carrying out the administrative work, official documentation and record-keeping. Instead of hiring more administrative personnel from outside, the college offers jobs to its students on part-time basis for handling this additional workload. This becomes a win-win situation as the college can train and financially support the students on the one hand and, on the other hand, a smooth administrative functioning is ensured at a low cost. This goes a long way in building the confidence of the young students and gives them a sense of contributive participation in the working of the institution. The students for these jobs are identified and recommended for by the members of the faculty on the basis of their economic requirements and befitting caliber for the proposed jobs.

Evidence of Success

In the session 2012-13, the case of SimranjitKaur came to the notice of the authorities at the time of the B.Com I centralized admissions. SimranjitKaur, a student of SC category, came from a family of farm labour of a village located 17 km from Chandigarh. She had almost nil financial support available from home due to her family conditions. In spite of receiving waivers and scholarship money from the college, she was not in a position to continue her studies. In order to help her, an extraordinary effort was made by the college by offering her a part-time job on the campus, which proved to rescue her out of dire financial crisis. As a result she could complete her B.Com and got a job in HDFC Bank soon after her college and later she secured a regular job in Bank of India, Amritsar.

The college is supporting another similar case of MrKeshu Prasad since 2013-14. During the automation process of the college in 2014-15, a team of college employees including

members of teaching and non-teaching staff was trained by the experts of TCS Group. MrKeshu was also made a part of the team receiving this training. He is currently working efficiently for the college on part-time basis, as he pursues his B.Com III simultaneously. This work experience and training is further going to help him secure a decent job in the immediate future. Also, Katiyani Dogra, Surbhi, Vandana and Khushboo from the Arts stream were given part-time jobs in college library in 2014-15 and 2015-16.

Problems encountered and Resources Required:

Usually, it is hard to identify the needy students, who generally shy away from disclosing their low economic status and who can also fit into the available job profiles on the campus. However, once the college authorities and/or teachers are approached for help, all efforts are made to offer assistance. Financial resources are the primary requirement to ensure that this practice is a success. The expenditure incurred by the college in form of salary/stipend to these students amounts to Rs 27,000 in 2013-14, Rs 42,890 in 2014-15 and Rs 80,616 in 2015-16, which is drawn from Student Welfare Fund of the college.

Best Practice II**Title of the Practice**

Stress Management Centre (Manasuday) for Students & Staff

Goal

Manasuday, the stress management centre on the campus, is a unique feature of the institution. This initiative is with the sole objective of taking care of the stress levels of individuals, including teachers and students, in the competitive contemporary time. The aim of the centre is to help students deal with their everyday anxiety and stress with the help of the counsellors from the Psychology Department of the college.

The Context

The centre offers services like one-to-one counselling, self-instructional and motivational material for individuals feeling inconsequential distress and social stimulation techniques by training in a group sitting. This comprehensive approach imparts greater assurance that everybody will receive the required assistance for coping with stress.

The Practice

Special programmes/sessions designed by the experts from the field of psychology are used to hold counselling and meditation sessions for the benefit of the overall health of the individuals. The centre provides individual stress management assessments and perceptions followed by exploration and practice in various techniques and sustainable approach. The emphasis of this centre is on providing a number of approaches for the control of damaging spells of anxiety.

Evidence of Success

A register is maintained by the Department of Psychology of all the students and others who visit Manasuday for counselling and meditation sessions. Their case history and details of assistance provided is also maintained in that register which is kept completely confidential.

Problems Encountered and Resources Required

No problem has been encountered so far.

Contact Details

Name of the Principal:	Dr. Bhushan K Sharma
Name of the Institution:	Goswami Ganesh Dutta Sanatan Dharma College
City:	Chandigarh
Pin Code:	160030
Accredited Status:	‘A’ Grade
Work Phone:	0172-4912400
Fax:	0172-2661077
Website:	www.ggdsd.ac.in
E-mail:	info@ggdsd.ac.in
Mobile:	09646002816

Evaluative Report of the Departments

Faculty of Science

1. Name of the Department: Faculty of Science

Biochemistry, Bioinformatics, Biotechnology & Microbiology, Botany, Chemistry, Physics, Zoology.

2. Year of Establishment

Department	Year of Establishment
Biochemistry	2004
Bioinformatics	2004
Biotechnology & Microbiology	1994
Botany	1979
Chemistry	1986
Physics	1979
Zoology	1979

3. Names of Programmes/ Courses offered (UG,PG,M.Phil.,Ph.D, Integrated Masters; Integrated Ph.D,etc.) :

Department	Names of Programmes/Courses offered
Biochemistry	B.Sc., Diploma In Medical Lab Technology(DMLT)
Bioinformatics	B.Sc. (Hons.), M.Sc.
Biotechnology & Microbiology	B.Sc. with Industrial Microbiology, B.Sc. with Biotechnology, B.Sc. (Hons.)Biotechnology, B.Voc.(Food Processing& Preservation), M.Sc.(Biotechnology), Ph.D.
Botany	B.Sc. (General)
Chemistry	B.Sc. with Industrial Chemistry, B.Sc.(General), M.Sc.(Applied Chemistry - Pharmaceutical), Ph.D.
Physics	B.Sc. (General) , M.Sc. (Physics)
Zoology	B.Sc. (General)

4. Names of Inter disciplinary courses and the departments/units involved :

- B.Sc.(Hons) Bioinformatics , B.Sc.(Hons) Biotechnology :
(Department of Biochemistry, Information Technology, Statistics , Chemistry, Physics, Mathematics, English, Punjabi, History)
- B.Sc. with Mathematics :

(Department of Mathematics and Science Departments)

- M.Sc Biotechnology, M.Sc Bioinformatics (Department of Biochemistry, Information Technology, Statistics, Chemistry, Physics, Mathematics)

5. Annual/semester/choice based credit system (programme-wise) :

Semester System: All Courses : B.Sc. / M.Sc.

6. Participation of the Department in the courses offered by other departments

Department	Participation in Courses Offered by Other Departments
Biochemistry	▪ Department of Biotechnology : B.Sc. / M.Sc. ▪ Department of Bioinformatics : B.Sc.
Bioinformatics	▪ Department of Biotechnology : B.Sc. / M.Sc.
Biotechnology & Microbiology	▪ Department of Bioinformatics : B.Sc. / M.Sc.
Chemistry	▪ Department of Biotechnology : B.Sc. ▪ Department of Bioinformatics : B.Sc.
Physics	▪ Department of Biotechnology : B.Sc. ▪ Department of Bioinformatics : B.Sc.

7. Courses in collaboration with other universities, industries, foreign institutions, etc. :

For B.Voc Food Processing & Preservation and DMLT course the college has industrial tie up with HPMC limited Processing Plant Solan & S.K Diagnostics respectively .

8. Details of courses/programmes discontinued (if any) with reasons :

-- Nil --

9. Number of Teaching Posts :

	Sanctioned	Filled
Professors	--	--
Associate Professors	06	06
Assistant Professors	49	49

Department	Number of Teaching Posts		
Biochemistry		Sanctioned	Filled
	Associate Professors	--	--
	Assistant Professors	02	02
Bioinformatics		Sanctioned	Filled
	Associate Professors	--	--
	Assistant Professors	06	06
Biotechnology & Microbiology		Sanctioned	Filled
	Associate Professors	01	01
	Assistant Professors	08	08
Botany		Sanctioned	Filled
	Associate Professors	01	01
	Assistant Professors	03	03
Chemistry		Sanctioned	Filled
	Associate Professors	01	01
	Assistant Professors	16	16
Physics		Sanctioned	Filled
	Associate Professors	02	02
	Assistant Professors	11	11

Zoology		Sanctioned	Filled
	Associate Professors	01	01
	Assistant Professors	03	03

10. Faculty profile with name,qualification,designation,specialization (D.Sc./D.Litt. / Ph.D./ M.Phil. etc.)

Department of Biochemistry

S. No	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D Student guided last 4 years
1.	Dr. Akhlash P Singh	M.Sc., Ph.D.	Assistant Professor	Biochemistry	9	-
2.	Dr. Nidhi Mittal	M.Sc., Ph.D.	Assistant Professor	Biochemistry	8	-

Department of Bioinformatics

S. No	Name	Qualification	Designation	Specialization	No.of Years of Experience	No.of Ph.D Student guided last 4 years
1.	Mr. Varinder Kumar	M.Sc. Bioinformatics	Assistant Professor	Molecular Modeling & Molecular Phylogeny	10	-
2.	Ms. Chander Jyoti	M.Sc. Bioinformatics	Assistant Professor	Drug Designing	2	-
3.	Dr. Ruchi Sachdeva	M.Sc., Ph.D.	Assistant Professor	Molecular Modelling & Computer Aided Drug Designing	3	-
4.	Ms. Sandeep Kaur	M.Sc. Systems Biology & Bioinformatics	Assistant Professor	Systems Biology	3	-

5.	Mr. Sandeep	M.Sc. Bioinformatics	Assistant Professor	Drug Designing	2	-
6.	Mr. Abinashi Sodhi	M.Sc. Biotechnology	Assistant Professor	Molecular Biology	3	-

Department of Biotechnology

S. No	Name	Qualification	Designation	Specialization	No.of Years of Experience	No.of Ph.D. Student guided last 4 years
1.	Dr. Navneet Batra	M.Sc., Ph.D.	Associate Professor	Metagenomics & Industrial Enzymology	15	02
2.	Dr. Samriti Dhawan	M.Sc., Ph.D.	Assistant Professor	Genetic Engineering & Enzymology	16	-
3.	Dr. Ashima Pathak	M.Sc., Ph.D.	Assistant Professor	Radiation Biophysics	11	-
4.	Dr. Neetu Thakur	M.Sc., Ph.D.	Assistant Professor	Plant Tissue Culture and molecular biology	10	-
5.	Dr. Avneet Kaur	M.Sc., Ph.D.	Assistant Professor	Immunology	07	-
6.	Ms. Ananya	M.Sc.	Assistant Professor	Biotechnology	01	-
7.	Dr. Neetu Sharma	M.Sc., Ph.D.	Assistant Professor	Environmental Microbiology	06	-
8.	Ms. Sonu Bhatia	M.Sc.	Assistant Professor	Metagenomics	05	-
9.	Ms. Surbhi Arora	M.Sc.	Assistant Professor	IPR	02	-

Department of Botany

S. No	Name	Qualification	Designation	Specialization	No.of Years of Experience	No.of Ph.D Student guided last 4 years
1.	Dr. Aruna Saini	M.Sc (Hons.), M.Phil., Ph.D.	Associate Professor	Plant Tissue Culture, Biosystematics, Eco-Physiology	37 years	-
2.	Dr. Jasveen Dua	M.Sc., Ph.D.	Assistant Professor	Tissue Culture	20 years	-
3.	Dr. Radha Chauhan	M.Sc. (Hons.), Ph.D.	Assistant Professor	Mycology and Plant Pathology	2 years	-
4.	Dr. Priyanka	M.Sc. (Hons.), Ph.D.	Assistant Professor	Eco-Physiology	1 year	-

Department of Chemistry

S. No	Name	Qualification	Designation	Specialization	No.of Years of Experience	No.of Ph.D Student guided last 4 years
1.	Dr. Sajeev Soni	M.Sc., Ph. D.	Associate Professor	Inorganic Chemistry	22	-
2.	Dr. Jasamrit Nayyar	M.Sc (Hons)., Ph. D	Assistant Professor	Synthetic Organic Chemistry	12	-
3.	Dr. Shweta Wadhawan	M.Sc., Ph. D.	Assistant Professor	Physical Chemistry	8	-
4.	Dr. Jyoti Kataria	M.Sc (Hons)., Ph. D.	Assistant Professor	Organometallic Chemistry	10	-
5.	Dr. Mamta Sharma	M.Sc., Ph. D.	Assistant Professor	Synthetic Organic Chemistry	3	-
6.	Dr. Shallu Dogra	M.Sc.(Hons), Ph. D.	Assistant Professor	Organic Chemistry	3	-

7.	Dr. Mehak Rohilla	M.Sc.(Hons), Ph. D.	Assistant Professor	Organic Chemistry	3	-
8.	Dr. Navnita Kumar	M.Sc.(Hons), Ph. D.	Assistant Professor	Inorganic Chemistry	3	-
9.	Dr. Alka Sharma	M.Sc.(Applied Chemistry), Ph. D.	Assistant Professor	Organic Chemistry	3	-
10.	Mr. Prabjot Singh	M.Sc. (Instrumental Analysis)	Assistant Professor	Physical Chemistry	1	-
11.	Ms. Ayushi Jain	M.Sc.	Assistant Professor	Physical Chemistry	3	-
12.	Ms. Jaspreet Kaur	M.Sc., M.Phil.	Assistant Professor	Physical Chemistry	6	-
13.	Ms. Neha Nanda	M.Sc., M.Phil.	Assistant Professor	Physical Chemistry	3	-
14.	Ms. Priyanka Mor	M.Sc.(Applied Chemistry)	Assistant Professor	Physical Chemistry	6	-
15.	Ms. Rupanjeet Kaur	M.Sc.(Applied Chemistry)	Assistant Professor	Physical Chemistry	3	-
16.	Ms. Raveena Thakur	M.Sc. (Industrial Chemistry)	Assistant Professor	Physical Chemistry	3	-
17.	Ms. Anita Devi	M.Sc. (Industrial Chemistry)	Assistant Professor	Physical Chemistry	1	-

Department of Physics

S. No	Name	Qualification	Designation	Specialization	No.of Years of Experience	No.of Ph.D Student guided last 4 years
1.	Dr. P. N. Pandit	M.Sc. Ph.D.	Associate Professor	Particle Physics	35 years 4 months	-
2.	Dr. M.L. Verma	M.Sc. M.Phil. Ph.D.	Associate Professor	Experimental Condensed Matter Physics	36 years	03
3.	Dr. Shikha Gupta	M.Sc. Ph.D.	Assistant Professor	Experimental Condensed Matter Physics	5 years 5 months	-
4.	Dr. Neelu Mahajan	M.Sc. Ph.D.	Assistant Professor	Theoretical Particle Physics	10 years	-

5.	Dr. Sanjeev Kumar	M.Sc. Ph.D.	Assistant Professor	Experimental Radiation Physics, Medical Physics and Material science	10 years	1 5 in progress
6.	Dr. Kriti Sharma	M.Sc. Ph.D.	Assistant Professor	Experimental Condensed Matter Physics	1 year 5 months	-
7.	Dr. Samandeep Sharma	M.Sc. Ph.D.	Assistant Professor	Theoretical Particle Physics	2 years	-
8.	Dr. Amit Goyal	M.Sc. Ph.D.	Assistant Professor	Theoretical Physics and Nonlinear Optics	1 year 5 months	-
9.	Mr. Rajwinder Singh	M.Sc. M.Tech.	Assistant Professor	Nanoscience and technology	2 years 6 months	-
10.	Ms. Ankita Taneja	M.Sc.	Assistant Professor	Theoretical Physics	4 months	-
11.	Mr. Inderpal Singh	M.Sc.	Assistant Professor	Theoretical Physics	Fresher	-
12.	Ms. Sukhjot Kaur	M.Sc. M. Phil	Assistant Professor	Theoretical Nuclear Physics	8 months	-
13.	Mr. Surjeet Chahal	M.Sc.	Assistant Professor	Theoretical Physics	Fresher	-

Department of Zoology

S. No	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D Student guided last 4 years
1.	Dr. Sangeeta Pandit	M.Sc., Ph.D.	Associate Professor	Parasitology	27	-
2.	Dr Indu	M.Sc., Ph.D.	Assistant Professor	Immunology	10	-
3.	Dr. Vineet Kumar	M.Sc., Ph.D.	Assistant Professor	Parasitology	01	-
4.	Ms. Taniya Das	M.Sc., B.Ed.	Assistant Professor	Fisheries and Aquaculture	02	-

11. List of senior visiting faculty :

--Nil--

12. Percentage of lectures delivered and practical classes handled (program-wise) by temporary faculty

Department	% of Lectures handled by Temporary Faculty		
Biochemistry	Name of Program	Theory	Practical
	--Nil--		
Bioinformatics	Name of Program	Theory	Practical
	B.Sc. (Hons.)	29.17%	31.81%
	M.Sc.	26.31%	26.31%
Biotechnology & Microbiology	Name of Program	Theory & Practical	
	B.Sc.	0.25%	
	B.Sc. (Hons.)	4.79%	
	M.Sc.	--	
Botany	Name of Program	Theory & Practical	
	B.Sc. (Medical)	52%	
Chemistry	Name of Program	Theory	Practical
	B.Sc. I	48.20%	68.75%
	B.Sc. II	62.00%	88.40%
	B.Sc. III	100.00%	100.00%
	M.Sc. I	80.00%	66.30%
	M.Sc. II	75.00%	100.00%
Physics	Name of Program	Theory	Practical
	B.Sc. I (Non-Med)	33.33%	68.75%
	B.Sc. II (Non-Med)	44.44%	38.88%
	B.Sc. III (Non-Med)	66.66%	57.14%
	M.Sc. I Physics	40.00%	Nil
	M.Sc. II Physics	37.50%	Nil
Zoology	Name of Program	Theory	Practical
	B.Sc. (General)	50.00%	50.00%

13. Student-Teacher Ratio (programmewise):

Department	Student-Teacher Ratio	
Biochemistry	Name of Program	Student-Teacher Ratio
	B.Sc. I Year	19:1
	B.Sc. II Year	14:1
	B.Sc. III year	10:1
Bioinformatics	Name of Program	Student-Teacher Ratio
	B.Sc. (Hons.)	3:1
	M.Sc.	2:1
Biotechnology & Microbiology	Name of Program	Student-Teacher Ratio
	B.Sc.	20.5:1
	B.Sc. (Hons.)	3.9:1
	M.Sc.	3.8:1

Botany	Name of Program	Student-TeacherRatio
	B.Sc. (Medical)	24:1
Chemistry	Name of Program	Student-TeacherRatio
	B.Sc. I	30:1
	B.Sc. II	35:1
	B.Sc. III	34:1
	M.Sc. I	5:1
	M.Sc. II	5:1
Physics	Name of Program	Student-TeacherRatio
	B.Sc. I (Non-Med)	41:1
	B.Sc. II (Non-Med)	28:1
	B.Sc. III (Non-Med)	31:1
	M.Sc. I Physics	10 :1
	M.Sc. II Physics	12:1
Zoology	Name of Program	Student-TeacherRatio
	B.Sc. (General)	55:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled :

Department	Number of academic support staff
Biochemistry	Nil
Bioinformatics	01
Biotechnology& Microbiology	03
Botany	02
Chemistry	04
Physics	03
Zoology	02

15. Qualifications of teaching faculty with DSc/D.Litt/ Ph.D/ MPhil/ PG* :

Total Faculty = 55, [Ph.D. = 33 , M.Phil.= 2, PG= 20]			
Department	Qualificationsof Faculty (* Refer to 10. Above)		
Biochemistry	Ph.D. : 02		
Bioinformatics	Ph.D. : 01	PG : 05	
Biotechnology& Microbiology	Ph.D. : 06	PG : 03	
Botany	Ph.D. : 04		
Chemistry	Ph.D. : 09	M. Phil : 01	PG : 07
Physics	Ph.D. : 08	M. Phil: 01	PG: 04
Zoology	Ph.D. : 03	PG: 01	

16. Number of faculty with on going projects from a) National b) International funding agencies and grants received :

Department	OngoingProjects
Biochemistry	01
Physics	02

17. Departmental projects funded by DST-FIST;UGC, DBT, ICSSR,etc.and total grants received

Department	OngoingProjects		
Bioinformatics Biotechnology Microbiology Biochemistry Zoology Botany Chemistry Physics	Project	Funding Agency	Total Grant Received
	FIST Scheme	DST	Rs. 70 Lakh (Sanctioned to all science departments)
	Star College Scheme	DBT	Rs. 5,00,000/- (Non-Recurring) + Rs. 12,99,750/- (Recurring)
	BSR Scheme	UGC	Rs 40,00,000/-
	Project	Funding Agency	Total Grant Received
Botany	Dr. Jasveen Dua, “Screening and characterization of PHA producing bacteria from diverse habitats in Chandigarh”	DST (2012)	70,000/-
Chemistry	Project	Funding Agency	Total Grant Received
	Dr. Sajeew Soni and Dr. (Mrs) Jyoti Kataria ‘Cationic chloropenta-amminecobalt (III) chloride as anion receptor: Synthesis, Characterization and X-ray crystallographic studies.’	UGC, New Delhi	Rs. 8,24,300/- (3 years Project, Completed in 2012)
Physics	Project	Funding Agency	Total Grant Received
	Dr. M.L.Verma, “Dielectric studies of chalcogenide glasses for electronic devices”	UGC, New Delhi.	Rs 9,61,800/-
	Dr. M.L.Verma, “Characterization of Multicomponent semiconductors for electronic devices “	UGC, New Delhi.	Rs 10 Lacs
	Dr. Sanjeev Kumar, “Investigation of uranium mobilization from subsurface sediments by effect of	UGC, DAE Kolkata.	Rs 14 Lacs

	bicarbonate and other ions in groundwater of Malwa Region of Punjab state in India”		
Zoology	Project	Funding Agency	Total Grant Received
	Dr. Sangeeta Pandit, Minor project entitled “Microbial & Biochemical studies different waters including industrial effluents in and around Chandigarh with focus on crop growth”	D.S.T. Chandigarh administration	Rs. 70,000/- (one year)
	Dr. Indu Mehta, “To explore the potential of Endomycopsis capsularis for Industrial Applications”	UGC, New Delhi	Rs. 6,69,000/- (three years)

18. Research Centre/ facility recognized by the University :

Department of Biotechnology	Research Centre approved from Panjab University, Chandigarh
Department of Chemistry	Research Centre approved from Panjab University, Chandigarh

19. Publications : a) Publication per faculty

Department	(Publications) : (Total No. of Teachers)
Biochemistry	25 : 2
Bioinformatics	15 : 6
Biotechnology& Microbiology	42 : 9
Botany	19: 4
Chemistry	11: 17
Physics	145: 13
Zoology	7: 4

19. Publications: b) Number of :-

- Papers published in peer reviewed journals (national/ international) by faculty& students
- Publications listed in International Database (For Eg:Web of Science,Scopus,Humanities International Complete, Dare Database-International Social Sciences Directory,EBSCO host, etc.)
- Books with ISBN/ISSN numbers with details of publishers
- Monographs
- ChapterinBooks
- BooksEdited
- CitationIndex*
- SNIP*
- SJR*
- Impactfactor*
- h-index*

***Total**

Department	Peer reviewed	International Database	Books	Chapter in Books	Monographs	Books Edited	Citation Index	SNIP	SJR	Impact factor	h-index
Biochemistry	23	10	-	2	-	-	21	-	-	-	8
Bioinformatics	9	-	1	5	-	-	-	-	-	-	-
Biotechnology & Microbiology	39	25	1	2	-	-	136	12.013	8.362	56.737	20
Botany	9	-	9	1	-	-	11	0.918	0.689	10.95	15
Chemistry	11	-	-	-	-	-	22	9.151	8.29	40.517	3
Physics	141	-	1	3	-	-	379	-	-	-	31
Zoology	7	-	-	-	-	-	-	-	-	-	-

19. Details of Books Published:

Department	Books with ISBN/ISSN numbers with details of publishers
Bioinformatics	Mr. Varinder Kumar, "Molecular Biology and Biotechnology: Basic Experimental Protocols", The Energy and Resources Institute, TERI , ISBN : 978-8179933794, 2013.
Biotechnology	Dr. Ashima Pathak, "Fundamentals of Microscope", Kalyani Publishers, ISBN : 978-93-27252514, 2015.
Botany	- Dr. Aruna Saini, "Ecology for 6th Semester (B. Sc. III Major) of Himachal University", Trueman Book Company ; Adda Hoshiarpur , Jalandhar -144008, ISBN 81-87223-57-X. - Dr. Aruna Saini, "Ecology and Economic Botany for B. Sc. III classes of Indian Universities", Trueman Book Company ; Adda Hoshiarpur , Jalandhar -144008, ISBN 81-87223-57-X. - Dr. Aruna Saini, "Angiosperms: Structure, Development and Reproduction in flowering plants (Part-I) for Ist Semester of B. Sc. II classes", Trueman Book Company ; Adda Hoshiarpur , Jalandhar -144008, ISBN 81-87223 -45-6 - Dr. Aruna Saini, "Angiosperms: Structure, Development and Reproduction in flowering plants (Part-II) for Second semester of B. Sc. II classes", Trueman Book Company ; Adda Hoshiarpur , Jalandhar -144008, ISBN 81-87223 -45-6 - Dr. Aruna Saini, "Foundations of Botany- Paper A (Algae and Fungi) for Ist Semester of B. Sc. I classes of Indian universities. ", Trueman Book Company ; Adda Hoshiarpur , Jalandhar -144008, ISBN 81-87223-33-2. - Dr. Aruna Saini, "Foundations of Botany- Paper A (Bryophytes and Pteridophytes) for IInd Semester of B. Sc. I classes of Indian universities. " Trueman Book Company ; Adda Hoshiarpur , Jalandhar -144008, ISBN 81-87223-33-2.

	- Dr. Aruna Saini, “Foundations of Botany for B. Sc. I Classes (Major Paper) for Semester- I of H.P. University. (Phycology, Mycology, Plant Pathology, Bryophyta and Pteridophyta) ”, Trueman Book Company ; Adda Hoshiarpur , Jalandhar -144008, ISBN 81-87223-33-2. - Dr. Aruna Saini, “Economic Botany, Plant Anatomy and Embryology of Angiosperms for B. Sc. II classes (Major paper) for Semester III of Himachal Pradesh University”, Trueman Book Company ; Adda Hoshiarpur , Jalandhar -144008, ISBN 81-87223-66 –IX - Dr. Aruna Saini, “Bryophytes and Pteridophytes for B. Sc. II Classes (Minor Paper) Semester- III of Himachal Pradesh University ”, Trueman Book Company ; Adda Hoshiarpur , Jalandhar -144008,ISBN 81-87223-50–2

20. Areas of consultancy and income generated

Department	Areas of consultancy	Income generated (Rs.)
Chemistry	PG Personal Contact Programme of Madurai Kamraj University	53,000/- (2013-14)

21. Faculty as members in a) National committees b) International Committees c) Editorial Boards.

Department	Faculty as members
Biochemistry	Nil
Bioinformatics	Nil
Biotechnology & Microbiology	<u>National Committees :</u> ➤ DR. ASHIMA PATHAK, Life member, Association of Biology Teachers ➤ DR. NEETU THAKUR, Life member, Association of Biology Teachers ➤ DR NAVNEET BATRA - Member, World Academy of Young Scientist(WAYS) - Life Member, Indian Microbiologist Association - Life Member, Indian Science Congress Association (ISCA), Kolkata - Life member, The Biotech Research Society, Trivandrum - Life Member, Indian Association of Biology Teachers (Colleges) - Life Member, Punjab Academy of Sciences, Patiala. <u>Editorial Boards :</u>

	➤ DR. NAVNEET BATRA ▪ Member, Editorial Board , Current Trends in Biotechnology and Chemical Research (CTBCR), ISSN: 2249-4073, Publisher : Maharishi Markandeshwar University Mullana (India) ▪ Member, Editorial Board , Prime Journal of Microbiology Research, ISSN: 2251-127X, Publisher: Prime Journals ▪ Section Editors (Biotechnology), International Multidisciplinary Research Journal , ISSN: 2231-6302, Publisher : <i>Scholar Journals</i> of the Society for Scientific Research, India ▪ Member, Editorial Board, American Journal of Microbiological Research, ISSN: 2328-4129, Publisher: Science Publications USA ▪ Section Editors [Biotechnology], Recent Research in Science & Technology, ISSN: 2076-5061, Publisher : <i>Scholar Journals</i> of the Society for Scientific Research, ▪ Member Editorial Committee , World Academy of Science, Engineering and Technology ▪ Member Editorial Board: Biochemistry Datasets Papers in Biology, ISSN: 2314-8497 (Online), Publisher : Hindawi Publishing Corporation USA ▪ Member, Editorial Board , The Scientific World Journal, ISSN: 2356-6140, Publisher: Hindawi Publishing Corporation USA <u>Board of Studies</u> ➤ DR. NAVNEET BATRA ▪ Member, Board of Studies in Biotechnology, Panjab University, Chandigarh ▪ Member, Board of Studies in Bioinformatics, Panjab University, Chandigarh ▪ Member , Board of Studies in Microbiology, Panjab University, Chandigarh
Botany	<u>National Committees :</u> ➤ DR. ARUNA SAINI ▪ Life member, K.K. Nanda Indian Society for Plant Physiology ▪ Life Member of Indian Association of Biology Teachers. ➤ DR. RADHA CHAUHAN ▪ Life member, Mycological Society of India. ➤ DR. PRIYANKA ▪ Life member, K.K. Nanda Indian Society for Plant Physiology.
Chemistry	Nil
Physics	<u>Editorial Boards :</u> ➤ DR. SANJEEV KUMAR,

	➤ Member, Editorial Board of Journal, Material Science in semiconductor processing ➤ Member, Editorial Board of Journal, Journal of alloys and compounds ➤ Member, Editorial Board of Journal, Physical Status Solid B : Basic Solid State Physics

22. Student projects

- Percentage of students who have done in-house projects including inter-departmental program
- Percentage of students placed for projects in Organizations outside the institution i.e. in Research laboratories/ Industry/ other agencies

Department	Student Projects	
Biochemistry	% in-house projects	% outside projects
	10%	2%
Bioinformatics	% in-house projects	% outside projects
	▪ B.Sc.(Hons.) 60.30% ▪ M.Sc. 52.60%	Students actively participate in various short term trainings/ seminars/ workshops organized by other* reputed organizations, with financial assistance in the form of registration fees and travelling expenses.
Biotechnology & Microbiology	% in-house projects	% outside projects
	▪ B.Sc. (Hons.) III 57.30% ▪ M.Sc. 51.11%	Students actively participate in various short term trainings/ seminars/ workshops organized by other* reputed organizations, with financial assistance in the form of registration fees and travelling expenses.

* List of Organizations –

- Indo-Australian Introductory Workshop, HMV College, Jalandhar, 2014.
- Contemporary Topics in Biology, DAV College, Chandigarh in association with Indian Academy of Sciences (IAS), Indian National Science Academy (INSA) and The National Academy of Sciences (NAS), 2014.
- Workshop, Centre for Systems Biology & Bioinformatics, Panjab University, 2015.
- National Symposium, Centre for Systems Biology & Bioinformatics, Panjab University, 2015.

Botany	%in-house projects	% outside projects
	60%	--
Chemistry	%in-houseprojects	% outside projects
	Session ▪ 2011-12 = 5% ▪ 2012-13 = 5% ▪ 2013-14 = 4.7% ▪ 2014-15 = 3% ▪ 2015-16 = 2%	Session ▪ 2011-12 = 61.8% ▪ 2012-13 = 54.2% ▪ 2013-14 = 35.5% ▪ 2014-15 = 44% ▪ 2015-16 = 48%
Physics	%in-houseprojects	% outside projects
	11%	--
Zoology	%in-house projects	% outside projects
	Session ▪ 2010-11 = 18% ▪ 2011-12 = 32% ▪ 2012-13 = 37% ▪ 2013-14 = 5.7%	--

23. Awards/ Recognitions received by faculty and students

Faculty Awards/Recognitions :

Dr. M.L.Verma, Department of Physics

- Nominated for award of leading scientist of world award by International Biographical Centre, Cambridge, England.
- Nominated for award of top 100 educators 2011 award by International Biographical Centre Cambridge England.

24. List of eminent academicians and scientists/visitors to the department

Department of Bioinformatics

- **Dr. G.P.S. Raghava**, Chief Scientist & Head, Bioinformatics Centre, Institute of Microbial Technology, Chandigarh
- **Dr. (Mrs.) M.E. Sobhia**, Assistant Professor, Department of Pharma-coinformatics, National Institute of Pharmaceutical Research (NIPER), Mohali
- **Dr. Rajender Singh Sangwan**, Head & Chief Executive Officer, Centre of Innovative & Applied Bioprocessing, (CIAB), Mohali
- **Dr. Naidu Subbarao**, Associate Professor, School of Computational & Integrative Sciences, JNU, New Delhi
- **Dr. Prabhu Patil**, Scientist, Institute of Microbial Technology (IMTECH), Chandigarh
- **Dr. Anand K. Bachwat**, Prof. & Dean Research & Development, Indian Institute of Science Education & Research (IISER), Mohali
- **Dr. Suresh Sharma**, Coordinator, Dept. of System Biology & Bioinformatics, Panjab University, Chandigarh
- **Dr. Pratima**, Assistant Professor, Dept. of Biotechnology, P.U. Chandigarh.

- **Dr. Dipankar Sen Gupta**, Assistant Professor, Jaypee University of Information Technology, Wazirpur, Solan
- **Dr. Kanchan**, Professor, Department of Statistics, Panjab University, Chandigarh
- **Mr. Nikhil Sharma**, Information Officer, Sub-DIC, DBT Centre, Himachal Pradesh University, Shimla
- **Dr. Ashok Kumar**, Assistant Professor, Department of System Biology & Bioinformatics, Panjab University, Chandigarh
- **Dr. Veena Puri**, Assistant Professor, Department of System Biology & Bioinformatics, Panjab University, Chandigarh
- **Dr. Sudhanshu Shrivastava**, Associate Professor, Seth Jai Parkash Mukund Lal Institute of Engineering & Technology (JMIT), Yamuna Nagar
- **Dr. Ashish George**, Lead/Bioinformatics, Thermo Fisher Scientific, South Asia
- **Mr. Varun Jaiswal**, Assistant Professor, Department of Bioinformatics, JUIT, Wazirpur
- **Mr. Tarun Pal**, Jr. Scientist, DBT Centre of Excellence, JUIT, Solan
- **Dr. Shashi Rawat**, Senior Scientist & Incharge AKMU, Central Potato Research Institute (CPRI), Shimla
- **Dr. Aman Kumar**, Scientist, Dept. of Animal Biotechnology, LalaLajpat Rai University of Veterinary & Animal Sciences, Hisar
- **D. Raja Sudhakar**, Scientist, School of Computational & Integrative Studies, JNU, New Delhi
- **Mr. Bharat Yadav**, Research Scholar, School of Agriculture Biotechnology, PAU, Ludhiana
- **Mr. Mohit K. Swarnkar**, Scientist, IHBT, Palampur
- **Dr. R.K Singha**, Director, Computer Centre, P.U., Chandigarh
- **Dr. Ajay Guleria**, System Administrator, Dept of Computer Science, P.U, Chandigarh
- **Dr. M.P Bansal**, Professor, Dept of Biophysics, P.U., Chandigarh
- **Dr. F.S Nandel**, Coordinator, Dept. of Biophysics, P.U., Chandigarh

Department of Biotechnology & Microbiology

- **Dr. Pawan Kapoor**, Director, Central Scientific Instrumentation Organization (CSIO), Chandigarh
- **Dr. V.P. Kamboj**, Chairman, Biotech Consortium India Limited (BCIL), New Delhi
- **Dr. Aswani**, Scientist EI, Institute of Microbial Technology (IMTECH), Chandigarh
- **Dr. Ashish Ganguly**, Scientist EI, Institute of Microbial Technology (IMTECH), Chandigarh
- **Dr. G.S. Randhawa**, Prof. & Former Head, Dept of Biotechnology, IIT Roorkee
- **Dr. Gurbax Singh**, Former Additional Secretary, University Grants Commission (UGC), New Delhi
- **Mr. Sunil Agrawal**, Assistant Professor, University Institute of Engineering & Technology (UIET), PU, Chandigarh
- **Mr. ML Sharma**, Ex Incharge, Electro microscopic, Panjab University, Chandigarh
- **Mr. Sumeet Budhiraja**, Assistant Professor, University Institute of Engineering & Technology (UIET), PU, Chandigarh
- **Dr. Jasbir Singh**, Chairman, Dept. of Biochemistry, Kurukshetra University
- **Dr. Duni Chand**, Chariperson, Dept. of Biotechnology, HP University, Shimla
- **Dr. Rakesh Tuli**, Executive Director, National Agriculture Biotechnology Institute (NABI), Mohali

- **Dr. V.C. Kalia**, Sr. Principal Scientist, Institute of Genomics and Integrative Biology (IGIB), New Delhi
- **Dr. Kuldeep Singh**, Director, School of Agriculture Biotechnology Punjab Agriculture University (PAU), Ludhiana
- **Prof. M.S. Reddy**, Head, Dept. of Biotechnology & Environment Sciences, Thapar University, Patiala
- **Prof. Prince Sharma**, Professor, Dept. of Microbiology, Panjab University, Chandigarh
- **Dr. Akshay Anand**, Scientist, Department of Neurology, Postgraduate Institute of Medical Education & Research (PGIMER), Chandigarh
- **Mr. M.L. Sharma**, Consultant, Electron Microscopy, ICON Analytical Pvt. Ltd., Hyderabad
- **Dr. U.C. Banerjee**, Professor & Head, Pharmaceutical Technology, National Institute for Pharmaceutical Education and Research (NIPER), Mohali
- **Er. Anoop Verma**, Assistant Professor & Head, Department of Biotechnology, Thapar University, Patiala
- **Sh. S.K. Rana**, CEO, Bio-Age, Mohali
- **Dr. G.S. Kocher**, Assistant Professor, Panjab Agriculture University, Ludhiana
- **Dr. Rajkumar Salar**, Professor, Chaudhary Devi Lal University (CDLU), Sirsa
- **Dr. Vijender Mishra**, Scientist, NifteM, Sonipat
- **Er. Mukesh Kumar**, Scientist, National Institute for Pharmaceutical Education and Research (NIPER), Mohali
- **Dr. P.P Singh**, Scientist, National Institute for Pharmaceutical Education and Research (NIPER), Mohali
- **Dr. P. Visakhi**, Scientist, Indian Institute of Science Education and Research (IISER), Mohali
- **Dr. Sridhar Gutam**, Scientist, Central Institute for Subtropical Horticulture (CISH), Lucknow
- **Mr. Neeraj Kumar**, Assistant Professor, Panjab University, Chandigarh
- **Mr. Gautam Bahl**, Assistant Professor, Panjab University, Chandigarh
- **Mr. Mangat Singh**, ANIWEB Designs
- **Dr. Manoj Kumar**, Scientist, Institute for Microbial Technology (IMTECH), Chandigarh
- **Dr. Rajesh Singh**, Assistant Professor, Delhi University, Delhi
- **Mr. Surinder Pal Singh**, Punjab Digital Library, Chandigarh
- **Dr. Raj Kumar**, Panjab University, Chandigarh
- **Dr. K.P.R. Kartha**, Associate Dean (Academic), National Institute for Pharmaceutical Education and Research (NIPER), Mohali
- **Dr. Anil Sharma**, Professor & Head, Department of Biotechnology, MM University, Mullana
- **Dr. Neena Capalash**, Professor & Head, Department of Biotechnology, Panjab University, Chandigarh
- **Dr. Rekha Chaturvedi**, Former Chief Scientist and Head, IPR & PME, CSIR Institute Of Genomics & Integrative Biology, Delhi
- **Mr. MR Gupta**, Former Assistant Controller of Patents & Designs, Patent Office
- **Mr. Rahul Taneja**, Scientist, PIC, Department of Science & Technology
- **Mr. Rahul Sharma**, Patent Analyst, Effectual Services, Delhi
- **Mr. Sandeep Singh Kohli**, Co-Founder, XLPAT & Senior Patent Consultant TT Consultants
- **Mr. Umesh Sharma**, Manager IP, IDS Infotech Ltd, Mohali
- **Ms. Surbhi Goyal**, Head Operations, Stellarix, Jaipur

- **Mr. Raghu Patale**, Team Leader – Pharma Research Analyst GreyB Global IP
- **Ms. Harsha Rohtagi**, Patent Associate, Khurana & Khurana, Advocates & IP Attorneys
- **Mr. Bijay Kumar Sahu**, Scientific Officer, NRDC, New Delhi
- **Dr. Parikshit Bansal**, Managing Director, Excellion Innovations & (Ex In-Charge, IPR Cell, NIPER, Mohali
- **Dr. Dapinder Kaur Bakshi**, PSO (Biotechnology), Punjab State Council for Science & Technology (PSCST)
- **Mr. Harit Mohan**, CEO, Signicent Information Solutions
- **Mr. Garry Bedi**, Sr. Scientist, Intellectual Property Management, IMTECH, Chandigarh
- **Dr. Rupinder Tewari**, Head, Dept of Microbial Biotechnology, Panjab University, Chandigarh
- **Dr. G. S. Prasad**, Incharge, MTCC, IMTECH, Chandigarh

Department of Botany

- **Dr. Prem P Jauhar**, Professor of Cytogenetics with USDA Agricultural Research Service at Northern Crop Science Laboratory, State University Station, Fargo, North Dakota, USA
- **Prof. (Dr.) R. K. Kohli**, Vice Chancellor of Central University of Punjab.
- **Dr. Bhupinder Singh Bhoop**, Dean Faculty of Pharmaceutical Sciences, P.U. Chandigarh.
- **Dr. Sunil K. Hota**, Head Experimental Biology Division, Dihar.
- **Prof. (Dr.) Daisy R. Batish**, Botany Department of Panjab University, Chandigarh
- **Prof. Promila Pathak**, Botany Department of Panjab University, Chandigarh
- **Prof. (Dr.) Neera Garg**, Botany Department of Panjab University, Chandigarh
- **Dr. Priyanka**, Institute of Nano technology, Mohali .
- **Prof Gaurav Sharma**, Panjab College of Engineering & Technology, Lalru Mandi, Mohali.
- **Prof. Bose**, Scientist from CSIO, Chandigarh.
- **Prof H.S. Shergill**, An eminent agricultural economist from Panjab University, Chandigarh.
- **Prof. Arundeeep Ahluwalia** - An eminent Geo Scientist from Panjab University, Chandigarh.
- **Sh. M.L. Sharma**, Senior Scientific Officer in Sophisticated Analytical Instrumentation Laboratory, Chandigarh.

Department of Chemistry

- **Dr. O.P.Katare**, UIPS, PU, Chandigarh, 2012
- **Dr. S. Singh**, NIPER, Mohali, 2012
- **Dr. Tarun Vijan**, Chief Consultant, pharmaceutical and OTC products, 2012
- **Dr. B. S. Bhoop**, Dean Faculty of Sciences, PU, Chandigarh, 2013.
- **Dr. C.S. Gautam**, GMCH-32, Chandigarh, 2013.
- **Dr. V.R. Sinha**, chairman UIPS, Panjab University, Chandigarh, 2013
- **Ms. Alka**, NIPER, Mohali, 2013
- **Mr. Sadhu Singh**, Perkin Elmer Pvt.ltd., 2013
- **Dr J.K. Arora**, Additional Director, Panjab State Council for Science & Technology, 2013

- **Dr. Ashok K. Vijh**, M. Res., Research Institute of Hydro-Quebec, Quebec, Canada , 2014.
- **Dr. Rakesh Singh Dhanda** , Assistant Professor, Department of Translational and Regenerative Medicine, PGIMER , 2014.
- **Dr. Saranjit Singh**, Professor & Head, Pharmaceutical Analysis, NIPER Mohali, 2014.
- **Dr. Neetu Goel**, Assistant Professor, Department of Chemistry, Panjab University, Chandigarh , 2014.
- **Dr Shweta Sharma**, Assistant Professor, Institute of Forensic Science, Panjab University, Chandigarh , 2014.
- **Dr. Shweta Kapoor**, Institute of Forensic Science and Toxology, Panjab University, Chandigarh, 2014.
- **Mr. R. Narula**, Director (retd), Bureau of Indian Standards, 2014.
- **Dr. Amarjit Kaur**, Department of Chemistry, Panjab University, Chandigarh, 2015.

Department of Physics

- **Prof. S.K. Tripathi**, Department of Physics, P.U., Chandigarh
- **Prof. Sunita Srivastva**, Department of Physics, P.U., Chandigarh
- **Prof. C.N. Kumar**, Department of Physics, P.U., Chandigarh
- **Dr. J.S. Shahi**, Department of Physics, P.U., Chandigarh
- **Dr. Gurpreet Singh**, Dept. of Material Science, Bresecia Univ., Italy.
- **Mr. Vikas Garg** , Senior Biochemical Engineer , Renalyx Health System .
- **Dr. Devinder Pal Ghai**, Scientist G, DRDO, Ministry of Defense, New Delhi.

Department of Zoology

- **Prof. Sukhbir Kaur**, Panjab University, Chandigarh.
- **Dr. Ravneet Kaur**, Panjab University, Chandigarh.

25. Seminars / Conferences/ Workshops organized & source of funding a) National b) International

Department	Events Organized at National Level & Source of Funding		
Biochemistry	Seminar	Workshop	Conference
	01 (DBT)	12 (Funded by DBT) 01 (Science Fest ,DBT)	--
Bioinformatics	Seminar	Workshop	Conference
	01 (DBT)	05 (DBT) 02 (College Fund) 01 (FDP , DBT) 03 (Science Fest , DBT)	--
Biotechnology & Microbiology	Seminar	Workshop	Conference
	04 (DBT)	08 (DBT) 01 (Science Exhibition)	--
Botany	Seminar	Workshop	Conference
	10		--

Chemistry	Seminar	Workshop	Conference
	01(DBT) 01(DBT & UGC)	02 (DBT & UGC)	--
Physics	Seminar	Workshop	Conference
	--	01 (DBT & partially funded by college)	02 (DBT & partially funded by college)
Zoology	Seminar	Workshop	Conference
	--Nil--		

26. Student profile programme/coursewise:

Department	Student profile programme/coursewise						
Biochemistry	Name of Course	Applications received	Selected	*M	*F	Pass %	
	B.Sc. I	37	37	7	30	Result Awaited	
	B.Sc. II	28	28	4	24		
	B.Sc. III	19	19	3	16		
Bioinfor-matics	Name of Course	Applications received	Selected	*M	*F	Pass %	
	B.Sc. I	51	24	03	21	Result Awaited (100% in previous year)	
	B.Sc. II	15	15	04	11		
	B.Sc. III	15	15	01	14		
	M.Sc. I	25	10	03	07		
	M.Sc. II	08	08	-	08		
Biotechnology & Microbiology	Name of Course	Applications received	Selected	*M	*F	Pass %	
	B.Sc. with Biotech. I	63	34	05	29	Result Awaited (100% in previous year)	
	B.Sc. with Biotech. II	26	26	03	23		
	B.Sc. with Biotech. III	22	22	03	19		
	B.Sc. with Microbiology. I	30	27	07	20		
	B.Sc. with Microbiology. II	16	16	03	13		
	B.Sc. with Microbiology. III	18	18	01	17		
	B.Sc. (Hons.) Biotech. I	190	32	05	27		
	B.Sc. (Hons.) Biotech. II	25	25	02	23		
	B.Sc. (Hons.) Biotech. III	25	25	04	21		
	M.Sc. I	31	31	03	28		
	M.Sc. II	19	19	02	17		

Botany	Name of Course	Applications received	Selected	*M	*F	Pass %
	B.Sc I Medical	110	96	27	69	88%
	B.Sc II Medical	88	88	09	79	89%
	B.Sc III Medical	67	67	07	60	100%
Chemistry	Name of Course	Applications received	Selected	*M	*F	Pass % *Previous Year
	B.Sc. I	1352	401	148	253	84.7*
	B.Sc. II	438	380	114	266	92.8*
	B.Sc. III	290	371	76	197	93.14*
	M.Sc. I	24	23	1	22	100
	M.Sc. II	60	26	5	21	100
Physics	Name of Course	Applications received	Selected	*M	*F	Pass %
	B.Sc. I	839	246	115	131	75.29 %
	B.Sc. II	305	258	100	158	86.47%
	B.Sc. III	191	177	66	111	95.16%
	M.Sc. I	256	47	12	35	100%
	M.Sc. II	49	47	5	42	100%
Zoology	Name of Course	Applications received	Selected	*M	*F	Pass %
	B.Sc (Med) 2013-16	99	96	10	86	Result Awaited
	B.Sc (Med) 2014-17	133	122	14	108	
	B.Sc (Med) 2015-18	413	155	33	122	

27. Diversity of Students

Department	Diversity of Students			
Biochemistry	Name of the Course	% of students from same state	% of students from other States	% of students from abroad
	B.Sc. I	18%	82%	-
	B.Sc. II	14%	86%	-
	B.Sc. III	15%	85%	-
Bioinformatics	Name of the Course	% of students from same state	% of students from other States	% of students from abroad
	B.Sc.(Hons)	29%	71%	Nil
	M.Sc.	-	100%	Nil

Biotechnology & Microbiology	Name of the Course	% of students from same state	% of students from other States	% of students from abroad
	B.Sc. with Biotech.	28%	72%	Nil
	B.Sc. (Hons.) Biotech.	40%	59.9%	0.01%
	M.Sc.	26.3%	73.6%	Nil

Botany	Name of the Course	% of students from same state	% of students from other States	% of students from abroad
	B.Sc. I (Med)	21%	79%	-
	B.Sc. II (Med)	27%	73%	-
	B.Sc. III(Med)	36%	64%	-

Chemistry	Name of the Course	% of students from same state	% of students from other States	% of students from abroad
	B.Sc. I	9.7%	89.27%	0.24%
	B.Sc. II	12.89%	87.1%	-
	B.Sc. III	19.55%	80.8%	0.36%
	M.Sc. I	19.23%	80.77%	-
	M.Sc. II	21.74%	78.26%	-

Physics	Name of the Course	% of students from same state	% of students from other States	% of students from abroad
	B.Sc. I	9.35%	89.02%	1.63%
	B.Sc. II	12.79%	87.21%	--
	B.Sc. III	14.12%	85.88%	--
	M.Sc. I	14.89%	85.11%	--
	M.Sc. II	8.51%	91.49%	--

Zoology	Name of the Course	% of students from same state	% of students from other States	% of students from abroad
	B.Sc. I	29.17%	69.79%	01%
	B.Sc. II	13.11%	86.89%	---
	B.Sc. III	10.32%	89.68%	---

28. How many students have cleared national and state competitive examinations such as NET,SLET,GATE,Civilservices,Defense services,etc.?

Department	Student cleared national and state competitive examinations																			
Biochemistry	Nil																			
Bioinformatics	CSIR-NET: 08, SLET: 01, BINC: 01, Civilservices: 01, Defenseservices: 02																			
Biotechnology& Microbiology	<table><tr><th colspan="5">CSIR NET (JRF/LS), GATE, Ph.D Entrance, GRE etc.</th></tr><tr><th>2009-10</th><th>2010-11</th><th>2011-12</th><th>2012-13</th><th>2014-15</th></tr><tr><td>12</td><td>11</td><td>13</td><td>16</td><td>09</td></tr></table>					CSIR NET (JRF/LS), GATE, Ph.D Entrance, GRE etc.					2009-10	2010-11	2011-12	2012-13	2014-15	12	11	13	16	09
CSIR NET (JRF/LS), GATE, Ph.D Entrance, GRE etc.																				
2009-10	2010-11	2011-12	2012-13	2014-15																
12	11	13	16	09																
Chemistry	07 ▪ Ms. Bhoomika, Ms. Anuradha Sangwan and Ms. Ankita are in defence services.																			

	- Ms. Navneet Kaur is PO officer - Mr. Amit is in Indian Railways - Mr. Bhaljinder Singh is Food Inspector - Mr. Navin Chahal is in excise and custom inspector
Physics	04 - Mr. Navin Chahal - Excise and custom inspector - Ms. Pardeep Kaur- PO officer - Ms. Anuradha Sangwan- Lieutenant (Army officer) - Ms. Ankita - Flying officer

29. Student Progression

Student progression	Against %enrolled
UG to PG	90% (Biochemistry) 90% (Bioinformatics & Biotechnology) 40% (Chemistry) 25.4% (Physics) 60% (Zoology)
PG to M.Phil.	--
PG to Ph.D.	90%(Bioinformatics & Biotechnology) 1 (Chemistry) 1 (Physics)
Ph.D.toPost-Doctoral	--
Employed •Campusselection •Other than campus recruitment	1(Chemistry), 25.5% (Physics) 2(Chemistry)
Entrepreneurship/Self-employment	12.7% (Physics)

30. Details of Infrastructural facilities

- Library
- Internet facilities for Staff & Students
- Class rooms with ICT facility
- Laboratories

Library & Laboratories

The college has a Central Library with thousands of books, online journals, and several different magazines, periodicals and encyclopaedias. At present there are total 66140 books, 108 Periodicals, 145 encyclopaedias and 4000 online journals, with 3648 books related to science subjects. The Library is constantly updated as per the needs and the list of books provided by the departments under 'Faculty of Science'. The Digital Library provide means of online access to thousands of e-books, journals, e-journals, other published online reading material through INFLIBNET and EBSCO Database. The Library with high speed internet facility, also provide reprography facility to students and staff members. Details of available reading/reference material for the subjects in science stream is as follows -

Department	Books/ Journals/ Magazines/Periodicals
Bioinformatics	- Number of Books = 385 (Bioinformatics) + 9026(Computer/IT) - Number of Journals = 163 (Biological Sciences) in Library and available through INFLIBNET. - E-books through EBSCO Database = - Lab = 04 (P.G., U.G., Life Science, & Research Lab)
Biotechnology & Microbiology	- Number of Books = 746 - Number of Journals = 163 (Biological Sciences) in Library and available through INFLIBNET. - E-books through EBSCO Database = - Lab = 02
Botany	- Number of Books = 1487(Botany) + 324(Environment Science) - Number of Journals = Subscription to 10 journals, 5 magazines related to Science field - E-books through EBSCO Database= 563(Botany) + 863(Env. Science) - Lab = 02 Lab + 02 Herbaria & Eco-Museum + 01 Botanical Garden
Chemistry	- Number of Books = 2416 (Chemistry & Industrial Chemistry) - Number of Journals = Subscription to 10 journals, 5 magazines related to Science field and the Indian Pharmacopeia. - E-books through EBSCO Database = 3,282 related to Chemistry - Department also maintains its own library. - Lab = 01 (Research Lab) + 01(Applied Chemistry) + 04(Chemistry) + 01(Advanced Instrumental Lab) 02(Store)+01(Balance Room)
Physics	- Number of Books = 2209 - Number of Journals = Subscription to 10 journals, 5 magazines related to Science field - E-books through EBSCO Database = 3856 related to Physics - Lab = 05 (Mechanics & Electrical, Optics & Electrical, Electronics I & II & M.Sc. Lab) + 01(Computer Lab) + 01(Dark Room)
Zoology	- Number of Books = 526 - Number of Journals = Subscription to 10 journals, 5 magazines related to Science field - E-books through EBSCO Database = 794 related to Zoology - Lab = 02(General Lab) + 01 Aesthetically spread out Museum (with more than 350 specimens) + 05 Aquarium

b) Internet facilities for Staff & Students

The campus is Wi-fi enabled. Science Labs are well equipped with latest configured computers and practical instruments with high speed internet facility for the students and staff. Free online accesses to e books, reading material through different subscriptions by the college enhance teaching learning method.

c) Class rooms with ICT facility

The college provides an excellent infrastructure with sufficient number of classrooms, ultra-modern auditorium, seminar halls, conference room and laboratories. ICT Classrooms are equipped with Digital projectors, Smart Board and Internet facilities for conducting regular as well as visiting lectures. There are total 21 ICT Classrooms.

31. Number of students receiving financial assistance from college, university, government or other agencies.

Department	Students receiving financial assistance
Biochemistry	--Nil--
Bioinformatics	During the session 2015-16 total of 09 students received financial assistance in form of meritorious/EWS scholarship from the college, amounting of Rs. 1,07,393/- .
Biotechnology & Microbiology	During the session 2015-16 total of 11 students received financial assistance in form of meritorious/EWS scholarship from the college, amounting of Rs. 1,23,520/- .
Botany	--Nil--
Chemistry	42
Physics	22 (College) , 1 (Government)
Zoology	04

32. Details on student enrichment programmes (special lectures / workshops/ seminar) with external experts**Department of Biochemistry**

S No	Title	Name of Expert	Institute/Organization	Year
1.	A Journey from Biochemistry to Bioinformatics	Dr. Sujit Pujari	Department of Virology, PGIMER , Chandigarh	2010-11
2.	Genetic engineering and its application	Dr. Priya	Department of Experimental Medicine & biotechnology PGIMER, Chandigarh	2010-11
3.	Recombinant technology and its applications	Dr. Jaspreet Kaur	UIET, Punjab University, Chandigarh	2011-12
4.	Microorganism" life at micro level	Dr. Ranjana Bhatia	UIET, Punjab University, Chandigarh	2011-12
5.	Application of RT-PCR in Plant sciences	Dr. Sudesh Kumar	IHBT (CSIR), Palampur H.P	2012-13

6.	Proteomics for systems biology	Dr. Somdutt	IHBT (CSIR), Palampur H.P	2013-14
7.	Metabolic engineering for natural products	Dr. Sudesh Kumar	IHBT (CSIR), Palampur H.P	2013-14
8.	Introduction to Enzymes	Dr. U. C. Banerjee	National Institute of Pharmaceutical Education and Research (NIPER) Sector 67, SAS Nagar-160 062, Punjab.	2014-15
9.	Introduction to Enzymes kinetics	Dr. U. C. Banerjee	National Institute of Pharmaceutical Education and Research (NIPER) Sector 67, SAS Nagar-160 062, Punjab.	2014-15
10.	Enzyme inhibitors and immobilizations	Dr. U. C. Banerjee	National Institute of Pharmaceutical Education and Research (NIPER) Sector 67, SAS Nagar-160 062, Punjab .	2014-15
11	Biochemistry of Neuron	Mr. Vikas Garg	Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore	2015-16

Department of Bioinformatics

LECTURES (2010-15)			
S No.	Resource Person	Guest Lecture : Topic of Talk	Date/s
2010-11			
1.	Ms. Aarti Research Scholar, ICGB New Delhi	Artificial neural network & pharmacogenomics	10.02.2011
2.	Mr. Bhart Brij GENE BYTE, Chandigarh	Hands-on Workshop on Application of Programming Languages in Bioinformatics	11.02.2011
3.	Dr. Suresh Sharma Coordinator, Dept. of System Biology & Bioinformatics, Panjab University, Chandigarh	Application of Statistics in Biomedical Sciences	24.02.2011

2011-12			
1.	Dr. (Mrs.) M.E. Sobhia Assistant Professor, Dept. of Pharmacoinformatics National Institute of Pharmaceutical Research (NIPER), Mohali	Series of lectures on the concepts of Molecular Modeling and Pharmacoinformatics	November, 2011 to March, 2012
2.	Dr. Pratima Assistant Professor Dept. of Biotechnology	Immunology and Cell Biology	January, 2012
3.	Dr. Dipankar Sen Gupta Assistant Professor Jaypee University of Information Technology, Wagnaghat, Solan	Hands-on Workshop on Genome Annotation, Data warehousing & Data Mining and Clinical Bioinformatics	21.01.2012
4.	Dr. Suresh Sharma Coordinator, Dept. of System Biology & Bioinformatics, Panjab University, Chandigarh	Application of statistics in Biomedical Sciences	22.02.2012
5.	Dr. Kanchan Professor, Department of Statistics, Panjab University, Chandigarh	Demonstration of SPSS statistical tool in the area of Bioinformatics and Biomedical Sciences	22.02.2012
2012-13			
1.	Dr. (Mrs.) M.E. Sobhia Assistant Professor, Dept. of Pharmacoinformatics National Institute of Pharmaceutical Research (NIPER), Mohali	Series of lectures on the concepts of Molecular Modeling and Pharmacoinformatics	March, 2013
2013-14			
1.	Dr. (Mrs.) M.E. Sobhia Assistant Professor, Dept. of Pharmacoinformatics National Institute of Pharmaceutical Research (NIPER), Mohali	Role of bioinformatics in drug discovery process and pharmaceutical industry	15.10.2013
2.	Mr. Nikhil Sharma Information Officer, Sub-DIC, DBT Centre, Himachal Pradesh University, Shimla	Usage of proteomics analysis tools at Expert Protein Analysis System (ExpASy)	16.10.2013
3.	Mr. Varun Jaiswal Assistant Professor, Department of Bioinformatics, JUIT, Wagnaghat	Importance of analysis of 3D structure proteins in bioscience research, Use of CHIMERA, a molecular modeling tool	19.10.2013
4.	Dr. Ashok Kumar Assistant Professor, Department of System Biology & Bioinformatics, Panjab University, Chandigarh	Bioinformatics: Its Prospects and Applications	22.10.2014

5.	Dr. Veena Puri Assistant Professor, Department of System Biology & Bioinformatics, Panjab University, Chandigarh	Microarray – Chip Technology	06.10.2014
6.	Dr. Sudhanshu Shrivastava Associate Professor, Seth Jai Parkash Mukund Lal Institute of Engineering & Technology (JMIT), Yamuna Nagar	JAVA & PHP for Bioinformatics Data Management and Analysis	14.02.2014 -15.02.2014
2014-15			
1.	Dr. Rajender Singh Sangwan Head & Chief Executive Officer, Centre of Innovative & Applied Bioprocessing, (CIAB), Mohali	Next Generation Sequencing: Future Perspective	18.02.2015
2.	Dr. Prabhu Patil Scientist Institute of Microbial Technology (IMTECH), Chandigarh	Biology Goes Digital: New Science of Genomics, Hand-on Session on Annotation & Analysis of Microbial Genome	18 Feb, 2015
3.	Dr. Ashish George Lead/Bioinformatics, Thermo Fisher Scientific, South Asia	Ion-Torrent: Next Generation Sequencing & Software for Data Analysis	18.02.015
4.	Mr. Tarun Pal DBT Centre of Excellence, JUIT, Solan	Hands-on Session on Informatics for Transcriptome Analysis from Beginning to End	19.02.2015
5.	Dr. Shashi Rawat Senior Scientist & Incharge AKMU, Central Potato Research Institute (CPRI), Shimla	Bioinformatics: Potato Research & Development	19.02.2015
6.	Dr. Ashok Kumar Centre for Systems Biology & Bioinformatics Panjab University, Chandigarh	Lecture on Network Biology using Cytoscape	20.02.2015
7.	Dr. Aman Kumar Dept. of Animal Biotechnology, LalaLajpat Rai University of Veterinary & Animal Sciences, Hisar	Analysis of Nucleotide Sequence: A Bioinformatics Approach	20.02.2015
8.	Dr. Naidu Subbarao School of Computational & Integrative Studies, JNU, New Delhi	Structure Based Drug Designing & Molecular Modelling	21.02.2015 - 22.02.2015
9.	D. Raja Sudhakar School of Computational & Integrative Studies, JNU, New Delhi	Hands-on session on Modeller, AutoDock & Post Docking Tools	21.02.2015 - 22.02.2015

10.	Mr. Bharat Yadav School of Agriculture Biotechnology, PAU, Ludhiana	NGS Down Streaming, Hands-on session on Sequence Assembly	21.02.2015
11.	Mr. Mohit K. Swarnkar IHBT, Palampur	DNA Sequencing: The Next Generation, NGS Data Analysis: An Overview	21.02.2015 - 22.02.2015
12.	Dr. (Mrs.) M.E. Sobhia Assistant Professor, Dept. of Pharmacoinformatics, National Institute of Pharmaceutical Research (NIPER), Mohali	Lecture Series on Molecular Modeling and Pharmacoinformatics	March - April, 2014

WORKSHOPS (2010-15)			
Sr. No.	Topic	Duration & Date	No. of Participants
1.	Hands-on Workshop on Application of Programming Languages in Bioinformatics	One Day 11 th February, 2011	35
2.	Workshop on “Bioinformatics: Applications and Challenges”	One Day 21 st January, 2012	75
3.	Workshop on “Applications of SPSS in Bio-Medical Sciences”	One Day 22 nd February, 2012	70
4.	Workshop on JAVA & PHP for Bioinformatics Data Analysis and Management	Two Days February 15-16, 2014	30
5.	Workshop on Next Generation Sequence Data Analysis and Structural Bioinformatics	Five Days February 18-22, 2015	35
6.	Workshop on Molecular Biology and Immunology Techniques	One Week October 27 to November 01, 2015	30
7.	Workshop on Molecular Biology Techniques	Five Days February 04-06, 2016 February 12-13, 2016	33

SEMINARS (2010-15)			
Sr. No.	Name of the Activity	Duration & Date	No. of Participants
1.	Seminar on Application of Statistics in Biomedical Sciences	One Day Feb. 24 th , 2011	124

Department of Biotechnology & Microbiology

LECTURES (2010-15)			
Sr. No.	Resource Person with Address	Guest Lecture: Topic of Talk	Date/s
2010-11			
1.	Dr. Pawan Kapoor Director, CSIO, Chandigarh	Biotechnology towards better future	05.02.2011
2.	Dr. V.P. Kamboj Chairman, BCIL, New Delhi	Biotechnology for Health & Nutrition Security	05.02.2011
3.	Dr. Aswani Scientist EI, IMTECH, Chandigarh	In-silico weds In-vitro: A Broad Spectrum yet affordable Anti influenza Therapy	05.02.2011
4.	Dr. Ashish Ganguly Scientist EI, IMTECH, Chandigarh	Development of Vaccines against Tuberculosis	05.02.2011
5.	Dr. G.S. Randhawa Prof. & Former Head, Dept of Biotechnology, IIT Roorkee	How to be Successful in Life	12.02.2011
6.	Dr. Gurbax Singh Former Additional Secretary, UGC, New Delhi	Practical approach to research career in Science	12.02.2011
7.	Mr. Sunil Agrawal, UIET, PU, Chandigarh	Neural Network and Its Applications	19.01.2011
8.	Mr. ML Sharma, Ex Incharge, Electro microscopic, Panjab University, Chandigarh	Optical & Electron Microscopy and Its Applications in Biological Sciences	24.01.2011
9.	Mr. Sumeet Budhiraja, UIET, PU, Chandigarh	Image Processing and Its Applications	02.02.2011
10.	Dr. Jasbir Singh, Chairman, Dept. of Biochemistry, Kurukshetra University	First Report Vaccine Escape Mutants and Novel Mutants in Epsilon Signal of Hepatitis B Virus	11.02.2011
11.	Dr. Duni Chand, Chariperson, Dept. of Biotechnology, HP University, Shimla	Genetically Modified Foods	10.03.2011
2011-12			
1.	Dr. Rakesh Tuli Executive Director National Agriculture Biotechnology Institute (NABI), Mohali	GM Crops: Challenges, Opportunities & Fears	04.02.2012

2.	Dr. V.C. Kalia Sr. Principal Scientist Institute of Genomics and Integrative Biology (IGIB), New Delhi	Microbial Genomics for Bioremediation and In Search of Bioenergy and Bioplastics Producers	04.02.2012
3.	Dr. Kuldeep Singh Director, School of Agriculture Biotechnology Punjab Agriculture University (PAU), Ludhiana	Sequencing of Wheat Genome-Global Progress and The Indian Initiative	04.02.2012
4.	Prof. M.S. Reddy Head, Dept. of Biotechnology & Environment Sciences Thapar University, Patiala	Diversity of Cultivable and Non-Cultivable Bacteria from Bauxite Residue (red mud) Site of Alumina Industrial Plant	04.02.2012
5.	Prof. Prince Sharma Professor Dept. of Microbiology Panjab University, Chandigarh	Novel Thermostable Restriction Endonucleases from Extreme Thermophiles	04.02.2012
6.	Dr. Akshay Anand Department of Neurology Postgraduate Institute of Medical Education & Research (PGIMER), Chandigarh	Paradigms of Neurobiology: Path to Patient Care	04.02.2012
7.	Mr. M.L. Sharma Consultant, Electron Microscopy ICON Analytical Pvt. Ltd., Hyderabad	Nano-Biotechnology Needs Nano-Metrology	04.02.2012
2012-13			
1.	Dr. U.C. Banerjee National Institute for Pharmaceutical Education and Research (NIPER), Mohali	Scale Up Process	18.12.2012
2.	Er. Anoop Verma Thapar University, Patiala	Fermenter Design	19.12.2012
3.	Sh. S.K. Rana Bio-Age, Mohali	Control Parameters studies for process in fermenter -I	21.12.2012
4.	Dr. G.S. Kocher Panjab Agriculture University	Microbiology of Fermentation	22.12.2012
5.	Dr. Rajkumar Salar Chaudhary Devi Lal University (CDLU), Sirsa	Biopesticides	25.12.2012
6.	Dr. Vijender Mishra NifteM, Sonipat	Development of functional fermented foods	26.12.2012
7.	Er. Mukesh Kumar National Institute for Pharmaceutical Education and Research (NIPER), Mohali	Determination of maintenance coeff and true yield	29.12.2012
8.	Dr. P.P Singh National Institute for Pharmaceutical Education and Research (NIPER), Mohali	E-Resources in Research	20.02.2013

9.	Dr. P. Visakhi Indian Institute of Science Education and Research (IISER), Mohali	Role of E-Resources in Research Publishing	20.02.2013
10.	Dr. Sridhar Gutam Central Institute for Subtropical Horticulture (CISH), Lucknow	Building Global Research Commons with Open Access E-Resources	20.02.2013
11.	Mr. Neeraj Kumar Panjab University, Chandigarh	Institutional repositories: a new platform in higher education and research	20.02.2013
12.	Mr. Gautam Bahl Panjab University, Chandigarh	Search Strategies for Researchers	21.02.2013
13.	Mr. Mangat Singh ANIWEB Designs	Citation Styles	21.02.2013
14.	Dr. Manoj Kumar Institute for Microbial Technology (IMTECH), Chandigarh	Role of Bioinformatics in Scientific Research	21.02.2013
15.	Dr. Rajesh Singh Delhi University, Delhi	Electronic Resource Content: A Gateway to Scholarly Information for Scientific Research	21.02.2013
16.	Mr. Surinder Pal Singh Punjab Digital Library, Chandigarh	Role of Panjab Digital Library in Digitization of Scholarly Content of Punjab	21.02.2013
17.	Dr. Raj Kumar Panjab University, Chandigarh	E-Resources at Panjab University Campus, Chandigarh	21.02.2013
2013-14			
1.	Dr. K.P.R. Kartha Associate Dean (Academic), NIPER, Mohali	Patents : Empowering Biotech Industry	15.11.2013
2.	Dr. U.C. Banerjee Prof. & Head, Pharmaceutical Technology, NIPER, Mohali	Lecture series (10) on fermentation process	Oct. 2013
3.	Dr. Anil Sharma Professor & Head, Department of Biotechnology, MM University, Mullana	Iron Interference in Anticancer and Anti-tuberculosis Drug Resistance: Possibly a novel mechanism to explore	03.10.2010
4.	Dr. Neena Capalash Professor & Head, Department of Biotechnology, Panjab University, Chandigarh	Quorum quenching: A novel approach to control multiple drug resistant Pathogens	04.10.2013
5.	Er. Anoop Verma Assistant Professor & Head, Department of Biotechnology from Thapar University, Patiala	Design and control system of lab to industrial scale fermenters	06.01.2014
6.	Dr. Rekha Chaturvedi Former Chief Scientist and Head IPR & PME, CSIR Institute Of Genomics & Integrative Biology, Delhi	Intellectual Property: A Tool to Innovation in Life Sciences	15.11.2013

7.	Mr. MR Gupta Former Assistant Controller of Patents & Designs, Patent Office New Delhi	- Intellectual Property with Focus on Patents - Patents: Bussiness Advantage Beyond Monopoly	15.11.2013 & 16.11.2013
8.	Mr. Rahul Taneja Scientist, PIC, Department of Science & Technology	Importance of Intellectual Property Competitiveness of Biotech Industry	15.11.2013
9.	Mr. Rahul Sharma Patent Analyst, Effectual Services, Delhi	Basics of Patent Searching	15.11.2013
10.	Mr. Sandeep Singh Kohli Co-Founder, XLPAT; Senior Patent Consultant at TT Consultants	Global Changes in Patent Laws and Advances in Patent Searching	15.11.2013
11.	Mr. Umesh Sharma Manager IP, IDS Infotech Ltd, Mohali	Impact of Patents in Global Bussiness Environment	16.11.2013
12.	Ms. Surbhi Goyal Head Operations, Stellarix, Jaipur	Carrers in Patent and its Demand	16.11.2013
13.	Mr. Raghu Patale Team Leader – Pharma Research Anaylst at GreyB Global IP	Role of IP in Pharma Industry	16.11.2013
14.	Ms. Harsha Rohtagi Patent Associate at Khurana & Khurana, Advocates & IP Attorneys	Compulsory Licensing and its Impact	16.11.2013
15.	Mr. Bijay Kumar Sahu Scientific Officer, NRDC, New Delhi	Emerging Issues in Biotech Inventions	16.11.2013
2014-15			
1.	Dr. U.C. Banerjee National Institute for Pharmaceutical Education and Research (NIPER), Mohali	Lecture Series on: - General introduction of biochemical engineering in the light of upstream, fermentation and downstream processes - Mass transfer in a fermentation process. - General instrumentation and control in microbial fermentation processes - Types of physical sensors, theories and their use in fermentation processes - Types of chemical and biochemical sensors, theories and their use in fermentation processes	October 27 to November 10, 2014
2.	Er. Anup verma Thapar University, Patiala	Lecture cum demonstrative workshop on Design and Control System of lab to Industrial Scale Fermenters	07.11.2014

3.	Dr. Parikshit Bansal Managing Director, Excellion Innovations & (Ex In-Charge, IPR Cell, NIPER, Mohali	Patent Progress Profit and prosperity	24.02.2015
4.	Dr. Dapinder Kaur Bakshi PSO (Biotechnology), Punjab State Council for Science & Technology (PSCST)	Intellectual Property Rights Pharma and Biotechnology Sector	24.02.2015
5.	Mr. Harit Mohan CEO, Signicent Information Solutions	Outlook in Pharma and Biotech Industry	24.02.2015
6.	Mr. Garry Bedi Sr. Scientist, Intellectual Property Management, IMTECH, Chandigarh	Patent Filling in India and Patent Cooperation Treaty	24.02.2015
7.	Dr. Rupinder Tewari Head, Dept of Microbial Biotechnology, Panjab University, Chandigarh	Career Opportunities for graduates in Science	11.02.2015
8.	Dr. G. S. Prasad Incharge, MTCC, IMTECH, Chandigarh	Microbial World: Day to Day Life	11.02.2015

WORKSHOPS (2010-15)			
Sr. No.	Topic	Duration & Date	No. of Participants
1.	Workshop From Petriplate to Bioreactor	Two weeks 15 th Feb to 1 st March, 2010	28
2.	Workshop on How to be Successful in Life	One day Feb 12 th , 2011	80
3.	2 nd Workshop on Fermentation Process – “From Petri Plate To Bioreactor”	Two weeks Dec. 14 th -28 th , 2011	22
4.	3 rd Workshop on Fermentation Process – From Petri Plate To Bioreactor	Two Weeks December 18-31, 2012	22
5.	Workshop on Role of E-Resources in Scientific Research	Two Days February 20-21, 2013	147
6.	Workshop on Patents: Empowering Biotech Industry	Two Day November 15-16, 2013	57
7.	4 th Workshop on Fermentation Process – From Petri Plate To Bioreactor	Two Weeks January 06-15, 2014	25
8.	5 th Workshop on Fermentation Process – From Petri Plate To Bioreactor	Two Days December 20-31, 2014	28

SEMINARS (2010-15)			
Sr. No.	Name of the Activity	Duration & Date	No. of Participants
1.	National Symposium on Biotechnology : Innovation and Challenges	One day Feb. 6 th , 2010	256
2.	National Symposium on Biotechnology : Expanding Horizons	One Day Feb. 5 th , 2011	270
3.	National Symposium on “Biotechnology : Research & Development”	One day Feb. 4 th , 2012	250
4.	IPR Seminar on Global Outlook of Pharma & Biotech Patents	One Day Feb. 2 nd , 2015	114

Department of Botany

Resource Person with Address	Guest Lecture: Topic of Talk	Source of Funding
Dr. Prem P Jauhar, Professor of Cytogenetics with USDA Agriculturral Research Service at Northern Crop Science Labortary, State University Station, Fargo, North Dakota, USA	From Green Revolution To Gene Revolution, India's Glorious Past, Present and Future	DBT
Sh. M.L. Sharma	Electron Microscopy & Microtomy, Techniques of Microtomy	DBT
Prof. Gaurav Sharma, Panjab College of Engineering & Technology, Lalru Mandi, Mohali	Solid Waste Management	DBT
Dr. Priyanka, Institute of Nano technology, Mohali	Emerging Trends in Nano-sensing Technologies in Crop Protection, Genetically Modified Crops, Perspectives in Environmental Nanotechnology, Series of Lectures, Nanomaterials in agriculture and Food Technology, Lecture on Nanotechnology: Perspective for Food Safety, Health and Environment	DBT
Dr. Bhupinder Singh Bhoop, Dean Faculty of Pharmaceutical Sciences, P.U. Chd.	Harvesting of Natural Resources for the Service of Mankind	DBT
Dr. Sunil K. Hota, Head Experimental Biology Division, Dihar	Role of Plant Sciences in National Defence -A DRDO Perspective	DBT
Dr. Promila Pathak, Botany Department of panjab University, Chd	Orchids -A Fantastic World	DBT

Prof. (Dr.) Daisy R. Batish	Lecture on Biodiversity: Concept, Status & Conservation	DBT
Prof. (Dr.) Neera Garg	Work shop on Bio-fertilizers and their role in Sustainable Agriculture	DBT
Sh. Sham Sunder, Senior Technician; P.U., Chd.	Technique of Microtomy	DBT

Department of Chemistry

2011-2012			
S.No.	Educational Visits/ Excursions		
1.	The students of B.Sc. visited DSM, Ropar on 15 th February, 2012		
2.	The students of M.Sc. 1 st &2 nd year Applied Chemistry (Pharmaceutical) visited Aventis Pharma Ltd., Goa from 18-24 March, 2012		
	LECTURES		
S.No.	Resource person	Guest Lecture : Topic of talk	Date
1.	Dr. O.P.Katare, UIPS, PU, Chandigarh	Success story of Psorisme	29.02. 2012
2.	Dr. S. Singh, NIPER, Mohali	Scope of Applied Chemistry, Pharmaceutical postgraduates in Industry	29.02. 2012
3.	Dr. Tarun Vijan, Chief Consultant, pharmaceutical and OTC products	GMP and c GMP considerations	31.03. 2012

2012-2013			
S. No.	Educational Visits/ Excursions		
1.	Some of our students of M.Sc. 1 st &2 nd year Applied Chemistry (Pharmaceutical) attended ‘5 th International Symposium on Drug Development for Orphan / Neglected Diseases’ at CDRI, Lucknow’ from February 26 th -28 th , 2013.		
LECTURES			
S. No.	Resource person	Guest Lecture : Topic of talk	Date
1.	Dr. B. S. Bhoop, Dean Faculty of Sciences,Panjab University, Chandigarh.	On being a Scientist: ethics in publishing research.	30.1.2013
2.	Dr. C.S. Gautam, GMCH-32, Chandigarh.	Clinical trials deviations from ethical guidelines and its legal aspects	30.1.2013
3.	Dr. V.R. Sinha , chairman , UIPS , Panjab University , Chandigarh	Drug delivery	30.1.2013
4.	Ms. Alka , NIPER, Mohali	Training on HPLC	30.1.2013

5.	Mr. Sadhu Singh ,Perkin Elmer Pvt.ltd .	Training on GC	30.1.2013
6.	Dr J.K. Arora Additional Director, Panjab State Council for Science & Technology	Science in Every Day Life	2.2.2013

2013-2014	
S. No.	Educational Visits/ Excursions
1.	The students of M.Sc. 1 st &2 nd year Applied Chemistry (Pharmaceutical) and B.Sc. visited Central Research Institute, Kasuali on February 19 th , 2014 as a part of their hand on training experience.

LECTURES			
S. No.	Resource person with address	Guest Sector: Topic of talk	Date
1.	Dr. Ashok K. Vijh, M. Res., Research Institute of Hydro-Quebec, Quebec, Canada	Science as Culture: The Unity of Creative processes in Arts and Sciences.	17.1. 2014
2.	Dr. Rakesh Singh Dhanda Assistant Professor, Department of Translational and Regenerative Medicine, PGIMER	Basics of Stem Cells.	17.1.2014
3.	Dr. Saranjit Singh , Professor & Head, Pharmaceutical Analysis, NIPER Mohali	Current/Futuristic Instrumental Techniques for Analysis of Pharmaceuticals.	17.1. 2014
4.	Dr. Neetu Goel, Assistant Professor, Department of Chemistry, Panjab University, Chandigarh.	i. Bioenergetics- ATP hydrolysis and cellular respiration-I	8.3.2014
		ii. Bioenergetics- ATP hydrolysis and cellular respiration-II	12.3.2014
		iii. Protein- structural alignment	13.3.2014
		iv. Protein folding	14.3.2014
		v. Computational Chemistry	26.3.2014
5.	Dr Shweta Sharma, Assistant Professor, Institute of Forensic Science, Panjab University, Chandigarh.	i. Practical applications of Chemistry in Forensic toxicology.	08.3.2014
		ii. From burning to detonation; Fire investigation	10.3.2014
		iii. Basics about chemical aspects of explosives	11.3.2014

2014-2015			
S.No.	Educational Visits/ Excursions		
1.	The students of M.Sc. 1 st &2 nd year Applied Chemistry (Pharmaceutical) attended 3 rd International Conference on Polymer Processing and Characterization 2014 from 11th to 13th October, 2014 at Mahatma Gandhi University, Kottayam, Kerala, India They were accompanied by Ms Priyanka Mor, Ms Rupanjeet Kaur of the Department of Chemistry.		
2.	The students of B.Sc. Industrial Chemistry visited the Rajasthan textile development corporation (RTDC), near Ajmer road, Jaipur and Snow white marble Pvt. Ltd., Kishangarh at Jaipur.		
LECTURES			
S. No.	Resource person	Topic of talk	Date
1.	Dr. Amarjit Kaur, Department of Chemistry, Panjab University, Chandigarh.	i) Nuclear Magnetic Resonance : Basic Concept	18.3. 2015
		ii) Concept involved in Pericyclic reactions	19.3.2015
		iii) Problem solving & interactive session on NMR and Concerted reactions.	25.3 2015
2.	Dr. Shweta Kapoor, Institute of Forensic Science and Toxology, Panjab University, Chandigarh.	Nanotechnology: Small speaking louder	15.11 2014
3.	Mr. R. Narula, Director(ret'd), Bureau of Indian Standards	Standardisation and Consumer Protection	15.11 2014

Department of Physics

S. No.	Resource person	Guest Lecture: Topic of talk
1.	Prof. Manmohan Gupta, Deptt. Of Physics, Panjab University and co-ordinator CRIKC	‘Physics; A Journey from Macro to the Microworld’ (Crucial developments over 20 th century Physics)
2.	Prof. Manjeet Kaur, Deptt. Of Physics, Panjab University, Chandigarh	‘A World without Antimatter’. (origin & evolution of universe resulting into an excess of matter over antimatter.)
3.	Dr. Sunita Srivastva, Department of Physics, P.U., Chandigarh	Number Theory and Monte Carlo Simulations.
4.	Dr. Gurpreet Singh (RA), Dept. of Material Science, Bresecia Univ., ITALY	Basic Techniques involved in Material Science.
5.	Dr. Pramod Kumar, Post-Doctoral Research Associate, Indian Institute of Science Education and Research (IISER) Mohali	‘Delay-coupled Diode Lasers: Photonic test-bed to study and control of Coupled Oscillators Functionality’.
6.	Dr. J.S. Shahi, Department of Physics, Panjab University, Chandigarh	Digital Electronic Devices.

7.	Prof. S.K. Tripathi, Panjab University, Chandigarh	‘Transport Mechanism in Metal-Semiconductor Devices.
8.	Prof. O.P. Pandey, Thapar University, Patiala	‘Role of microstructure in understanding the properties of nanomaterials’.
9.	Dr. C Ghanshyam, CSIO, Chandigarh	‘ES Assisted Deposition Method for Gas Sensing Applications’.
10.	Dr. Yashveer Singh, IIT Ropar,	‘Polymer-based hydrogels and micelles for micro biocide delivery to prevent HIV-1 infection’.
11.	Dr. C.R. Suri, IMTECH, Chandigarh.	‘Functionalized nanostructures for bio diagnostics’.
12.	Dr. S.K. Tripathi, PU, Chandigarh.	' Interface Studies in Semiconductor/Polymer Nano composite Devices '
13.	Dr. Sanyog Jain, NIPER, Mohali.	Nano Drug Delivery Systems: A smarter way to treat life threatening diseases
14.	Dr. B.C. Choudhary, NITTTR, Chandigarh	Smart Materials & Systems.
15.	Dr. Sanjeev Kumar, PEC University, Chandigarh	Characterization of Nano/ microstructures synthesized using different techniques.
16.	Prof. Arvind, Eminent Physicist - IISER Mohali.Prof. Paramdeep S. Chandi, IISER Mohali., Prof M.S.Marwaha, Principal, S.G.G.S College, Chandigarh, Prof. Ravneet, P.U., Chandigarh	Practical Demonstrations for students to try their hand at various instruments such as Linear Air Track, Coupled Oscillator, LDR, Microscopes, basic concepts experiments etc

Department of Zoology

S.No.	Educational Visits/ Excursions
1.	Visit organized to Evolution of Life Section of “The Government Museum and Art Gallery, Chandigarh”, on 9 October 2013.
2.	88 students visited Bhakra Nangal Dam , Ropar Wetland for a firsthand experience to study exotic migratory birds and also visited Viraasat-e- Khalsa on 21 January 2014.
3.	Students of zoology department participated in poster making competition to celebrate “Sparrow Awareness Day” in P.G.I Auditorium. They actively voiced their concern about the declining number of sparrows and discussed the remedies to be undertaken by the general public. Visit was organized on on 20 March 2014.
4.	Visit organized to CIL, Panjab University to study SEM and TEM techniques for B.Sc III students. The students visited SAIF (Sophisticated and Advanced Instrument Facility), PU, where they were given demonstration of Electron Microscope (SEM and TEM). Students also visited Anthropology Department, PU, on 16 September 2014.
5.	An Educational Trip was organized to Mahendra Choudhary Zoological Park (Chhatbir Zoo) and Aam Khas Bagh(an Archeological site of the Mughal era) on 15 November 2014.

6.	Students of B.Sc. I participated in Seminar cum Workshop on “Trends in Animal Behavior Research”, at MCM DAV College for women, sector-36A, Chandigarh, held on 2 nd March 2015.
7.	Students of B.Sc. I presented posters entitled, ‘Fungus Farming in Termites’ and ‘Communication in Honey Bees’, 2015.
8.	Trip was organized to Evolution of Man and the Dinosaurs of India section of “The Government Museum and Art Gallery, Chandigarh”, for the students of B.Sc. I, on 7 November 2015.
9.	Visit was organized to SAIF (Sophisticated and Advanced Instrument Facility), PU, to explain the working of electron microscopy along with a lecture for the students of B.Sc III on 8 February 2016.
10.	An Educational Trip was organized to Central Research Institute, Kasauli for the students of B.Sc III on 20 February 2016.

EVENTS / LECTURES			
S.No.	Name of Event / Resource Person	Title of Event/ Lecture Organized	Date
1.	Slogan writing competition	Conservation of Biodiversity and Bio sciences in the service of humanity	21.01.2014.
2.	Essay writing competition	Evolution: The key to survival	22.01.2014
3.	Guest Lecture by Dr.Ravneet Kaur, P.U.,Chandigarh	Decline in number of house sparrows : An indicator of continuous degradation of the environment	01.02.2014
4.	Poster Making Competition	“Curbing of Tobacco Epidemic in India”. Around 50 students from B.Sc. I, B.Sc. II, B.Sc. III participated in the competition.	17.09.2014
5.	Guest lecture by Dr.Ravneet Kaur, P.U., Chandigarh	“Imaging the hidden world: Using Microscope”. Different types of microscopes were explained in detail.	8.11.2014
6.	Guest Lecture by Prof. Sukhbir Kaur, Panjab University, Chandigarh.	“Lieshmaniasis: Current understanding on Diagnostics, Vaccine designing and chemotherapeutic Development	21.02. 2015
7.	Workshop	Ornithology Workshop for students of B.Sc II . A discussion was held on the migratory birds of Northern region	06.02.2015
8.	Workshop conducted by Ms. Kalpana and Ms.Gurpreet from Panjab University, Chandigarh	“Histopathology: Techniques and Application” for B.Sc III students	07.02. 2015
9.	Workshop	Ecology: Conservation of Biodiversity	29.01. 2016
10.	Poster Making Competition	“Climate Change”	30.01. 2016

33. Teaching methods adopted to improve student learning

- Use of e-resources : Teachers make use of audio-visual aids like LCD projectors, video lectures and animations, power point presentation, online tutorials for explaining complicated topics which may not be easily understood by regular teaching through chalk and board.
- Interactive Teaching : Teachers encourage students to ask questions during the lecture in order to create their interest and promote learning.
- Activities : Students are encouraged to write assignments and make oral presentations on latest topics related to their course work, so as to increase their writing and learning skills. This strategy helps to inculcate the habit of reading and writing as well as help students to learn the course content more effectively.
- Group Discussions : Teachers regularly organize group discussions, interactive sessions on relevant topics in the class. This activity contributes to the overall learning and confidence of the students where they are motivated to list critical points, talk on the subject and develop their conceptual views.
- Workshops and Training : Eminent scientists from various reputed institutes are invited to impart lecture on core areas of the subject. Special programmes and training sessions are conducted for practical skill enhancements of the students besides routine course projects.
- Students are provided tutorials, questions banks, research oriented assignments/projects, from the whole syllabus. Besides that, three dimensional models, charts and museum specimens are used for practical demonstration in the relevant areas.
- Special remedial classes are conducted for weak students.
- Educational trips, excursions and industrial visits to research institutes/reputed organizations, give practical exposure to students to improve on their applied skills.
- LX Module is used for online student teacher interaction.
- Feedbacks are collected and analyzed with implementation of feasible suggestions for betterment of the department and teaching learning process.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

The 'Faculty of Science' actively participates in the various extension/extra-curricular activities organized by the college and nearby institutions. The students are encouraged to take part in various extension activities of the college like blood camps, environmental awareness, medical camps etc. Students perform social work at various places as a member of college voluntary organization named "Spirit India" working in collaboration with an NGO 'Avahan'. Students and staff members also participate zealously in different social activities conducted by Red Ribbon Club, NSS/NCC, street plays on societal issues and other cultural events organized by the College, Panjab University and other institutions. The Department of Biotechnology organizes Biotech Fest in which students are encouraged to make posters, slogan writing, plays on various social, environmental and ethical issues. A group of students of Chemistry department are working for PACFA. One of the faculty member of Physics department is a volunteer in MAD (make a difference) taking classes at GURASRA Trust Palsora, Mohali. Students of physics are working for NGO UJALA. Department of Botany regularly organizes competitions such as slogan writing, poster making, and declamation contest, essay writing, best out of waste, quiz contest and eco friendly rangoli, on different topics related to environment and social problems. The Environment Society "Haritima" organizes plantation and cleanliness drive every year, where various varieties of saplings are planted and care is taken for their nurture. Different educational trips encourage students to take up social responsibility towards cleanliness and environment conservation. Trips were

organized to Pushpa Gujaral Science City, Kapurthala, Sarangpur Botanical Garden, Pinjore Gardens, Kansal Forests, Nepali Forests, Sarangpur Botanical Garden, P.N Mehra Botanical Garden, Forest Research Institute Dehradun, Agrodutch Industries(The largest integrated mushroom Industry in the world and exporters of mushrooms to more than 10 countries of the world), Lalru, Rajpura, P. N. Mehra Botanical Garden, Cactus House and Green House of Panjab University.

35. SWOC analysis of the department and Future plans.

Strength

- Two of the science departments, Chemistry and Biotechnology, have been recognized as 'Research Centre' by the Panjab University Chandigarh for conducting the Ph.D. Programme and these departments are actively involved in research.
- The teaching and non-teaching faculty of the Science departments, work in harmony to create a professional and congenial environment. The Departments have well qualified and dedicated teachers from diverse areas of science who actively participate in undergraduate and post-graduate teaching.
- A majority of the faculty members are doctorates and work towards inculcating a spirit of research amongst the students which creates an intellectual environment to think innovatively. This has led to the smooth and effective execution of academic, research and extracurricular activities.
- The departments are equipped with sophisticated equipments and are well stocked with consumables. Annual technical workshops and training programs for the student and faculty of the college and other institutions are held, to give hands on training to the students.
- Seminars involving lectures and discourse by eminent scientists are a regular feature to sensitize the students towards the importance of the respective science faculties in our lives and to inculcate a sense of responsibility towards the environment as well as enhance the scientific temper amongst the students.
- Students who are interested in working on research projects or programs are helped by the faculty, to prepare graduates and post graduate students for challenging careers and enable the upward mobility towards higher education and research.
- Remedial coaching classes for weak students are held in most of the departments.
- Visits to industries, botanical gardens and the like are organized to enhance the skills of students.
- A large number of the teaching faculty have been/are involved in framing of Syllabi at Under-graduate level / Post graduate level and are members of the requisite board of studies.

Weakness:

- Lack of additional space for expansion of teaching and research facilities, minimal interdepartmental interactions and financial funding leads to difficulty in elevating the effectiveness and output of the departments.
- We don't exercise any direct control over the formulation of the course content, delivery schedule, or evaluation methodology, which results in a fundamental disconnect.

Opportunities

- The various science departments have a lot of opportunities in terms of collaborative research projects with other institutes. There are ample opportunities to enhance the training facility for external students to generate more financial resources for the departments.

- The alumni of the departments are well placed and their services can be used for the improvement of teaching and learning process for students and teachers.
- Location of the institution is ideal for catering to the educational demands of the tricity and neighboring states.

Challenges

- Faculty members attempt to enrich their research potentials by applying for various research projects to various funding agencies such as UGC, DBT, DST and CSIR however striking a balance for the faculty between the teaching assignments and research is extremely challenging and demanding.
- A typical classroom is highly heterogeneous in terms of the student's aspiration, capabilities and background which directly affect the meaningful outcome of the course.

Future Plans

- To have more collaborative interdepartmental and collaborative research with other institutes/Universities in India and abroad.
- To have meaningful research orientation among the students by way of short term projects.
- To develop and sustain a quality research environment by securing projects from various funding agencies.
- To have more applied skill based UG and PG Programmes as per market demand.

Evaluative Report of the Department

Faculty of Commerce & Management

1. **Name of the Department :** Faculty of Commerce & Management
2. **Year of Establishment :** 1973
3. **Names of Programmes/ Courses offered (UG,PG, M.Phil., Ph.D, Integrated Masters;Integrated Ph.D,etc.) :**
 - Bachelor of Commerce (B.Com.)
 - Bachelor of Business Administration (B.B.A.)
 - B.Voc (Retail Management)
 - Master of Commerce (M.Com.)
 - Master of Entrepreneurship & Family Business (M.E.F.B.)
 - Post Graduate Diploma in Marketing Management (PGDMM)
 - Post Graduate Diploma in Personnel Management & Labour Welfare (PGDPM&LW)

4. **Names of Interdisciplinary courses and the departments/units involved:**

Add on Courses:

- Advertising & Sales Promotion
- Event Management
- Computer Based Accounting

5. **Annual /semester/choice based credit system (programme-wise):**

- Semester System : All Courses
- Annual System : Add on Courses

6. **Participation of the Department in the courses offered by other departments:**

Name of Department	Course Being Taught	Subjects
Department of Biotechnology	B. Sc. (Hons.)	Patents Law and Intellectual Property Rights
Department of Information Technology	M.Sc (IT) PGDCA	Operations Research Accounting
Department of Arts	B.A.	Sales and Promotion

7. **Courses in collaboration with other universities, industries, foreign institutions,**
B.Voc (Retail management) in collaboration with Future Retail Ltd. And Metro Cash n Carry Pvt. Ltd.

8. **Details of courses/programmes discontinued (if any) with reasons:**
Master of Business Economics (Discontinued by Panjab University, Chandigarh)

9. Number of Teaching Posts:

	Sanctioned	Filled
Professors	01	01
Associate Professors	05	05
Assistant Professors	35	35

10. Faculty profile with name,qualification,designation,specialization (D.Sc./ D.Litt. / Ph.D/ M.Phil etc.)

Name	Qualification	Designation	Specialization	No.of Years of Experience	No.of Ph.D Student guided last 4 years
Dr. Bhushan K. Sharma (PRINCIPAL)	M.Com, DLL & LA, F.C.S., M.Phil., Ph.D.	Professor	Accounting & Finance	38	2
Dr. Jagwant Singh	M.Com. Ph.D.	Associate Professor	Banking & Finance	37	--
Dr. Ashok Mahajan	M.Com. .Ph.D.	Associate Professor	Taxation	37	--
Mr. Yogesh Kumar	M.Com.	Associate Professor	Cost Accounting & Management Accounting	37	--
Dr. Rajiv Behl	M.Com.,Ph.D.	Associate Professor	Banking & Finance	24	--
Dr. Meru Sehgal	M.Com.. Ph.D	Associate Professor	Merchant Banking & Costing	17	--
Dr. Ajay Sharma	M.Com., Ph.D.	Assistant Professor	Taxation & Finance	15	--
Dr. Monica Sachdeva	M.B.A., Ph.D.	Assistant Professor	Finance & Marketing	15	--
Dr. Yash Pal Taneja	M.Com., Ph.D	Assistant Professor	Accounting & Finance	9	3

Dr. Diksha Kakkar	M.Com., Ph.D	Assistant Professor	Accounting & Corporate Governance	9	--
Dr. Amit Mohindroo	M.Com, Ph.D.	Assistant Professor	Taxation	8	1
Dr. Geeta Sharma	M.Com., Ph.D	Assistant Professor	Finance & Marketing	5	--
Dr. Meenu Gupta	M.Com., Ph.D.	Assistant Professor	Finance & Banking	8	--
Ms Rinkey Priya Bali	M.Com.	Assistant Professor	Finance	8	--
Dr. Mani Parti	M.Com, M.Phil, Ph.D.	Assistant Professor	HRM	7	--
Mrs. Priyanka Malhotra	M.B.A.	Assistant Professor	HRM	7	--
Dr. Sumeet Kaur Sibal	M.Com, Ph.D	Assistant Professor	Finance & Banking	7	--
Dr. Savita Sindhu	M.Com, M.Phil, Ph.D	Assistant Professor	Management & Law	5	--
Dr. Kapil Dev	M.Com, Ph.D	Assistant Professor	Accounting & Finance	4	4
Dr. Monika Mittal	M.Com, Ph.D	Assistant Professor	Banking & Finance	4	--
Ms. Anupriya Bhardwaj	M.Com, M.Phil.	Assistant Professor	Management & Law	1	--
Dr. Nidhi Grover	M.Com, M.Phil., Ph.D.	Assistant Professor	Finance	5	--
Mr.Sureet Singh	M.Com.	Assistant Professor	Marketing	3	--
Dr. S.K, Sharma	M.A.(HS), M.A. Ph.D	Assistant Professor	Managerial Economics	5	--
Dr. Shallu Sharma	M.Com., Ph.D.	Assistant Professor	Law	7	--
Dr. M.P. Sharma	M.Com., Ph.D.	Assistant Professor	Accounting	39	--
Menka Goswami	M.Com, NET, NCFM	Assistant Professor	HRM	3	--
Dr. Arun K Sharma	M.Com, NET, PhD	Assistant Professor	Accounting	2	--
Dr. Vinckle G Singh	M.Com, PhD	Assistant Professor	Management	2	--

Dr. Nidhi Choudhary	M.Com, NET, PhD	Assistant Professor	Management	2	--
MalvikaWalia	M.Com.	Assistant Professor	Marketing	2	--
Pooja Aggarwal	M.Com. NET Mphil	Assistant Professor	Accounting	1	--
Gurjeet Kaur	MBA Mkt	Assistant Professor	HRM	1	--
Dr. Meenakashi	Mcom.NET PhD	Assistant Professor	Accounting	1	--
Ms.Neha	M.Com.	Assistant Professor	Marketing	1	--
Ms.Aashima Arora	M.Com.	Assistant Professor	HRM	1	--
Harsimran Kaur	M.Com.	Assistant Professor	Accounting	1	--
Ms.Aarti Sharma	M.Com.	Assistant Professor	Accounting	1	--
Ms.Richa Sachdeva	M.Com.	Assistant Professor	Accounting	1	--
Ms.Vanshika Bhardwaj	M.Com. NET	Assistant Professor	Accounting	1	--
Ms.Harmeet Kaur	M.Com.	Assistant Professor	Accounting	1	--

11. List of senior visiting faculty:

- **Dr. Jagwant Singh**
 - Resource Person, FDP organized by EDI of India Ahmedabad and Guru Nanak Dev University, Amritsar
 - Visiting Faculty for Expert Lecture at Academic Staff College, Panjab University, Chandigarh.
- **Mr. Ajay Sharma**
 - Resource Person, Seminar organized by Chandigarh Chapter of NIRC of Institute of Company Secretaries of India.

12. Percentage of lectures delivered and practical classes handled (program-wise) by temporary faculty

Name of Program	Theory	Practical
B.Com.	19.5%	12.5%
B.B.A.	34.8%	--
B.Voc (Retail Management)	56.25%	--
M.Com.	30%	--

M.E.F.B.	72.7%	--
PGDMM	100%	--
PGD PM LW	83.17%	--

13. Student -Teacher Ratio (programme wise):

Name of Program	Student-TeacherRatio
B.Com.	25.8:1
B.B.A.	13.2:1
B.Voc (Retail Management)	8.6:1
M.Com.	5.6:1
M.E.F.B.	5.6:1
PGDMM	9.0:1
PGD PM LW	2.5:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled :

--Nil--

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil/ PG* :***Refer to 10 above**

Total Faculty (Commerce) = 41, [Ph.D. = 25, M.Phil.= 2, PG= 14]

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received :

--Nil--

17. Departmental projects funded by DST-FIST;UGC, DBT, ICSSR, etc.and total grants received :

--Nil--

18. Research Centre/facility recognized by the University :

--Nil--

19. Publications: a) Publication per faculty

Publications: Total No. of Teachers = 220: 41

Research Paper & Books

19. Publications: b) Number of :-

Papers published in peer reviewed journals (national/ international) by faculty& students	116
Books with ISBN/ISSN numbers with details of publishers	104

20. Areas of consultancy and income generated

-- Nil --

21. Faculty as members in**a) National committees : 5**

S.No.	Name of Faculty	Committee	Institute
1	Dr. Jagwant Singh	Board of Studies	Panjab University
2	Dr. Ashok Mahajan	Board of Studies	Panjab University
3	Dr. Ajay Sharma	Board of Studies	Panjab University
4	Dr. Amit Mohindroo	Board of Studies	Panjab University
5	Dr. Diksha	Board of Studies	Panjab University

b) International Committees : 2

S.No.	Name of Faculty	Committee	Institute
1	Dr. Ajay Sharma	Course Coordination	UFV, Canada
2	Dr. Monica Sachdeva	Course Coordination	UFV, Canada

c) Editorial Boards. : 1

S.No.	Name of Faculty	Committee	Institute
1	Dr. Kapil Dev	Technical Committee Member	Clean Environment Journal, ISSN 2204-4973

22. Student projects

- Percentage of students who have done in-house projects including inter-departmental program
- Percentage of students placed for projects in Organizations outside the institution i.e. in Research laboratories/ Industry/ other agencies

-- Nil --

23. Awards/ Recognitions received by faculty and students**Student Awards/ Recognitions:**

In the year 2015, our students have won gold medals in taekwondo and table tennis in state tournaments. Our student also won gold medal in wrestling in North zonal and All India Inter University Tournament. In Panjab University Inter college our students won gold and bronze medals in gymnastics and fencing. In extracurricular activities our students won individual as well as team prizes in various categories at Panjab University Youth Festival and Inter Zonal Youth Festival.

In the year 2014, our students have won 1st prizes in mimicry, debate and 3rd prize in clay modeling in the Inter College Extra Curricular competitions which was held from October 5

to October 9, 2013. Our students also won prizes in other Inter College Competitions i.e 1st prize in rangoli in Wild Life Week organized by NGO Yuvsatta and consolation prize in poster making and slogan writing in Regional Institute of English, Chandigarh. In sports, the student from B Com won gold medal in wrestling as well as silver and bronze in fencing and taekwondo in the various competitions. They also won silver medal in table tennis, bronze medal in wrestling.

24. List of eminent academicians and scientists/visitors to the department

Name & Profile	Year of visit
Dr. Vinay K. Chaudhari , Programme Director of Artificial Intelligence Centre at Stanford Research Institute, International, California, USA	2013
Ms. Taiye Selasi , British Novelist	2014
Ms. Xiaou , British Novelist	2014
Prof. Ashok K Vijh , Eminent Scientist & Member, Research Institute of Hydro Quebec, Montreal, Canada	2014
Prof. Ratna Ghosh , Prof. of Education, McGill University, Montreal, Canada	2014
Prof. Animesh Singh , Associate Professor, Faculty of Management, McGill University, Montreal, Canada	2014

25. Seminars /Conferences/ Workshops organized & source of funding a) National b) International

	Seminars	Conferences	Workshops
National	01 (UGC) 01(Funded by College)	--	--
International	--	--	--

26. Student profile programme/coursewise:

Name of the Course/Programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass %
			*M	*F	
Bachelor of Commerce (B.Com.)	1294	1033	429	604	98.98
Bachelor of Business Administration (B.B.A.)	1379	422	272	150	96.18
B.Voc. (Retail Management)	73	59	47	12	100
Master of Commerce (M.Com.)	321	107	10	97	100
Master of Entrepreneurship & Family Business (M.E.F.B.)	72	54	29	25	81.19
PGDMM	55	36	30	6	100
PGD PM LW	18	10	4	6	100

*M=Male *F=Female

27. Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
B.Com.	80.83%	19.17%	0.00%
B.B.A.	24.88%	71.09%	4.03%
B.Voc (Retail Management)	33.90%	66.10%	0.00%
M.Com.	73.83%	26.17%	0.00%
M.E.F.B.	33.33%	66.67%	0.00%
PGDMM	83.15%	16.85%	0.00%
PGDPM LW	74.19%	25.81%	0.00%

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

UGC NET – 17 (In last four years)

Civil Services – 1.

29. Student Progression

Student progression	Against % enrolled
UG to PG	80-85%
PG to M.Phil.	5%
PG to Ph.D.	10%
Ph.D. to Post-Doctoral	
Employed	
• Campus selection	12% on average
• Other than campus recruitment	
Entrepreneurship/Self-employment	<5%

30. Details of Infrastructural facilities

- e) Library
- f) Internet facilities for Staff & Students
- g) Class rooms with ICT facility
- h) Laboratories

a) Library

No of Commerce Books 14426 Commerce Journals 11, Magazines 03

b) Internet facilities for Staff & Students

Wifi Campus, Mac Address based Access

c) Class rooms with ICT facility

16 classrooms are ICT enabled

d) Laboratories

N.A.

31. Number of students receiving financial assistance from college, university, government or other agencies

- 2013-14 : 40 students from college
- 2014-15 : 47 students from college

32. Details on student enrichment programmes (special lectures/workshops/ seminar) with external experts

- Computerized Accounting Workshop Under PMKVY
- National Seminar on Business Growth and Corporate Sustainability.
- Industry interaction for students and faculty.
- "Fest O' Comm." The inter college fest of knowledge and fun, intellect and recreation, and commerce and culture.
- "Panache" – Organised annually by BBA Club. An inter college program.

33. Teaching methods adopted to improve student learning

- **Class Test:** Regular class test has been conducted by the faculty in their respective subjects.
- **Assignments:** Students have been given assignments related to various topics.
- **Case Studies:** have been used for developing problem solving attitude among the students.
- **Student Presentations:** To improve communication skills and creativity among students, presentations have been given.
- **Discussion:** Formal as well as Informal discussion with students on topics related to curriculum.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

Students from this department also take active participation in NSS Programs, and other ISR activities like blood donation camps, spreading awareness about health and fitness in the society.

35. SWOC analysis of the department and Future plans**Strengths and Weaknesses**

Vision of the department is the alignment of theory with practice, academia with industry and fostering the sense of enterprise with motivation and professionalism. The department is equipped with 17 Ph.D. qualified faculty which enriches students with their expertise in every field. However, in absence of university recognized research center, the research skills of faculty remains underutilized. The department as well as the college has locational advantage of being in capital city of Punjab and Haryana. Brilliant students from all nearby states apply for admission in the department for the listed programs. The department also has strength in using modern teaching and delivery techniques which is assisted by the networking and wifi access in the department. The department also has a track record of students getting positions in university examinations and other extracurricular activities.

Opportunities and Challenges

Due to rapid growth of business and industry in the north India in recent past, many students after their senior secondary education are looking for commerce and management education for better career prospects. Hence, the department is bound to have better students. Also, because of the strong tie-ups with industry, the students can get even better industry interaction. The IT infrastructure also provides the opportunity for teachers to utilize skills to their fullest. However, the department also faces challenges like to motivate students to develop a deeper sense of critical and analytical thinking and to cultivate in them an endeavoring passion to be conscious morally and socially in the era of IT and web availability. Also the challenge is to encourage research aptitude amongst students and instill an innovation pruned thought process.

Evaluative Report of the Departments

Faculty of Arts

1. Name of the Department: Faculty of Arts

English, Economics, Fashion Designing, History, Hindi, Journalism & Mass Communication, Mathematics, Music, Punjabi, Public Administration, Physical Education, Psychology, Political Science, Statistics, Sanskrit, Sociology.

2. Year of Establishment :

Department	Year of Establishment
English	1973
Economics	1973
Fashion Designing	2006 - Add on Course in Fashion Designing 2007 - B.A (Fashion Designing)
History	1973
Hindi	1973
Journalism & Mass Comm	2004
Mathematics	1976
Music	1973
Punjabi	1973
Public Administration	1978
Physical Education	1973
Psychology	2005
Political Science	1973
Statistics	1973
Sanskrit	1973
Sociology	1994

3. Names of Programmes/ Courses offered (UG,PG,M.Phil.,Ph.D,Integrated Masters;IntegratedPh.D,etc.) :

Department	Names of Programmes/Courses offered
English	B.A., B.A. with Hons., B.A. with Functional English(Vocational), B.A. with Elective English, Add on Course - Functional English
Economics	B.A. , B.A. with Hons., M.A. (Economics)
Fashion Designing	B.A (Fashion Designing), B. Voc (Fashion Technology & Apparel design), Add-on Course - Fashion designing
History	B.A.
Hindi	B.A. , B.A. with Hons., B.A. with Elective Hindi
Journalism & Mass Comm	B.A. , PGDMC, Elective Journalism, Add-on Course - Journalism, Add-on Course - Video Reporting
Mathematics	B.A.
Music	B.A.
Punjabi	B.A., B.A. with Elective Punjabi
Public Administration	B.A.
Physical Education	B.A.
Psychology	B.A., B.A. with Hons. , Add On Course in Child Psychology,

	Add On Course in Guidance & Counseling
Political Science	B.A.
Statistics	B.A.
Sanskrit	B.A.
Sociology	B.A. , B.A. with Hons.

4. Names of Inter disciplinary courses and the departments/units involved :

- All Add on Courses
- B.A. with Advertising & Sales Promotion
(Department of Commerce & Management and Arts Departments)
- B.A. with IT, B.A. with Computer Application, B.A. with Computer Science
(Department of Information Technology and Arts Departments)

5. Annual/semester/choice based credit system (programme-wise) :

- Semester System : All Courses
- Annual System : Add on Courses

6. Participation of the Department in the courses offered by other departments :

Department	Participation in Courses Offered by Other Departments
English	▪ Department of Commerce & Management : B.Com. , BBA ▪ Science Departments : B.Sc. in various streams ▪ Department of Information Technology : B.C.A. ▪ Department of Biotechnology : B.Sc.(Hons) ▪ Department of Bioinformatics : B.Sc.(Hons) ▪ Departments under Deen Dayal Upadhyay Kaushal Kendra for B.Voc. Courses
Economics	▪ Department of Commerce & Management : B.Com., B.Com.(Hons), B.B.A, M.B.E., M. Com, MEFB, PGDMM ▪ Science Departments : B. Sc.(General) ▪ Department of Biotechnology : B. Sc. (Hons) ▪ Department of Bioinformatics : M.Sc.(Bioinformatics) ▪ Department of Chemistry : M. Sc. (Applied Chemistry)
Fashion Designing	Nil
History	▪ Department of Information Technology : B.C.A. ▪ Department of Commerce & Management : B.B.A., B.Com. ▪ Science Departments : B.Sc. , B.Sc.(Hons.) (For Subject - History, Culture of Punjab (HCP))
Hindi	Nil
Journalism & Mass Comm	Nil
Mathematics	▪ Department of Information Technology : B.C.A. ▪ Department of Biotechnology : B.Sc. (Hons.) ▪ Department of Bioinformatics : B.Sc.(Hons.), M.Sc. ▪ Science Departments : B.Sc.
Music	Nil

Punjabi	- Department of Commerce & Management : B.Com. , BBA - Department of Information Technology : B.C.A. - Department of Science & Bio-Sciences : B.Sc.(General), B.Sc. (Hons.) Biotechnology
Public Admn	Nil
Physical Edu.	Nil
Psychology	Nil
Political Science	Nil
Statistics	Department of Science & Bio-Sciences : B.Sc.(General), B.Sc. (Hons.)Biotechnology
Sanskrit	Nil
Sociology	Nil

7. Courses in collaboration with other universities, industries, foreign institutions, etc. :

Fashion Designing : B.Voc (FTAD) in collaboration with Gauri India Pvt. Ltd, Nahar Fabrics, Designer – Gaurav Kumar

Other Departments : -- Nil --

8. Details of courses/programmes discontinued (if any) with reasons :

All Departments : -- Nil --

9. Number of Teaching Posts :

	Sanctioned	Filled
Professors	--	--
Associate Professors	13	13
Assistant Professors	67	67

Department	Number of Teaching Posts		
English		Sanctioned	Filled
	Associate Professors	05	05
	Assistant Professors	12	12
Economics		Sanctioned	Filled
	Associate Professors	03	03
	Assistant Professors	17	17

Fashion Designing		Sanctioned	Filled
	Associate Professors	Nil	--
	Assistant Professors	04	04
History		Sanctioned	Filled
	Associate Professors	Nil	--
	Assistant Professors	05	05
Hindi		Sanctioned	Filled
	Associate Professors	Nil	--
	Assistant Professors	02	02
Journalism & Mass Comm		Sanctioned	Filled
	Associate Professors	Nil	--
	Assistant Professors	03	03
Mathematics		Sanctioned	Filled
	Associate Professors	01	01
	Assistant Professors	06	06
Music		Sanctioned	Filled
	Associate Professors	Nil	--
	Assistant Professors	01	01
Punjabi		Sanctioned	Filled
	Associate Professors	01	01
	Assistant Professors	03	03
Public Admn		Sanctioned	Filled
	Associate Professors	01	01
	Assistant Professors	Nil	--
Physical Education		Sanctioned	Filled
	Associate Professors	02	02
	Assistant Professors	02	02

Psychology		Sanctioned	Filled
	Associate Professors	Nil	--
	Assistant Professors	05	05
Political Science		Sanctioned	Filled
	Associate Professors	Nil	--
	Assistant Professors	02	02
Statistics		Sanctioned	Filled
	Associate Professors	Nil	--
	Assistant Professors	02	02
Sanskrit		Sanctioned	Filled
	Associate Professors	Nil	--
	Assistant Professors	01	01
Sociology		Sanctioned	Filled
	Associate Professors	Nil	--
	Assistant Professors	02	02

10. Faculty profile with name,qualification,designation,specialization (D.Sc./D.Litt. / Ph.D/ M.Phil etc.)

Department of English

Name	Qualification	Designation	Specialization	No.of Years of Experience	No.of Ph.D Student guided last4 years
Dr. Balraj Thapar	M.A., M.Phil, Ph.D	Associate Professor	American Literature (drama)	30	--
Mrs.Ashima Dhir	M.A., M.Phil, PGDMC	Associate Professor	Radio and T.V. Journalism Business Communication	37	--
Mrs. Meera Sharma	M.A., M.Phil, B.Ed.	Associate Professor	Robert Browning Poetry	32	--

Dr.Arun Gaur	M.A., Ph.D	Associate Professor	Modern Poetry (WB Yeats)	30	--
Mrs.Madhu Sharma	M.A., M.Phil, Adv.Dip in Chinese	Associate Professor	Linguistics and Stylistics	28	--
Mrs. Pooja Sarin	M.A., PG Dip in Journalism	Assistant Professor	Print Journalism	12	--
Dr. Nidhi	M.A., Ph.D.	Assistant Professor	Post Colonial & Cultural Studies	12	--
Mr. Harender Kumar	M.A., M.Phil	Assistant Professor	Literary Theory	6	--
Dr.Jaskiran Tiwana	M.A., Ph.D.	Assistant Professor	Post Colonial & Cultural Studies	5	--
Dr. Archna Sahni	M.A., M.Ed. M.Phil, Ph.D	Assistant Professor	Post Colonial & Cultural Studies	8	--
Dr.Manisha Gangahar	M.A., Ph.D.	Assistant Professor	Postcolonial & Cultural Studies	7	1
Ms. Poorva Trikha	M.A., M.Phil	Assistant Professor	Visual Studies	3	--
Dr. Richa Gaiind	M.A. Ph.D.	Assistant Professor	Indian Literature	9	--
Dr. Liza Nanda	M.A., M.Phil, Ph.D.	Assistant Professor	Cultural Studies & Indian Writing in English	6	--
Mr. Dinesh Malik	M.A.	Assistant Professor	Indian Writing	22	--
Mrs. Ritika	M.A. (English) M.A. (Linguistics)	Assistant Professor	Linguistics	1	--
Mrs. Nidhi Chopra	M.A.	Assistant Professor	Indian Writing	1	--

Department of Economics

Name	Qualification	Designation	Specialization	No.of Years of Experience	No.of Ph.D Student guided last 4 years
Dr Anil K Parti	M.A. PhD	Associate Professor	Statistics and Operation Research	32	--
Mr. Vivek Sharma	M.A.(Hons), MBA	Associate Professor	Entrepreneurship and Indian Economy	25	--
Mr.Ashutosh Sharma	M.A.	Associate Professor	Entrepreneurship and Indian Economy	22	--
Dr.Gagandeep Sharma	M.A. M. Phil Ph.D	Assistant Professor	Mathematical Economics and Statistics	11	--
Ms. Niharika	M.A.(Hons), M.Phil.	Assistant Professor	Operation Research and Econometrics	6	--
Ms. Ruchi Sharma	M.A.	Assistant Professor	Business Economics and Banking	8	--
Dr. Arti Jolly	M.A., Ph.D	Assistant Professor	Development Economics and Statistics	8	--
Dr. Madhur Mohit	M.A., Ph.D	Assistant Professor	International Economics and Indian Economy	7	--
Ms. Arvuda Sharma	M.A., M. Phil.	Assistant Professor	Macro Economics and International Economics	7	--
Dr. Payal	M.A., Ph.D.	Assistant Professor	Macro Economics	5	--
Ms. Preeti Vohra	M.A.	Assistant Professor	Business Economics and Statistics	2	--
Dr. Deepti Chawla	M.A., M. Phil. Ph.D	Assistant Professor	Statistics and Business Economics	8	--

Ms. Shipra Bansal	MBE	Assistant Professor	Research Methodology and Banking	3	--
Ms. Megha Devgan	M.A.(Hons) NET	Assistant Professor	Industrial Economics and Public Finance	3	--
Ms. Gunjan Malhotra	M.A.	Assistant Professor	Econometrics and International Economics	3	--
Ms. Vatsla Bhanot	M.A.	Assistant Professor	Business Economics and Development Economics	1	--
Ms. Bhavna Tiwari	M.A.	Assistant Professor	Business Economics and Money & Banking	0	--
Ms. Sangeeta Malhotra	M.B.E.	Assistant Professor	Business Economics	1	--
Ms. Harpreet Kaur	M.A.(Hons), NET	Assistant Professor	Business Economics	0	--

Department of Fashion Designing

Name	Qualification	Designation	Specialization	No.of Years of Experience	No.of Ph.D Student guided last 4 year
Ms. Sumita Sikka	M. Sc (Clothing & Textiles)	Assistant Professor	Computer Aided Designing	15	--
Ms. Alpa Sharma	M.Sc.(Fashion Technology and Lifestyle)	Assistant Professor	Garment Construction Techniques	1	--
Ms. Jatinder Kaur	M.Sc.(Fashion Technology and Lifestyle)	Assistant Professor	Illustrations & Renderings	--	--
Ms. Anureet Kaur	M.Sc.(Fashion Technology and Lifestyle)	Assistant Professor	Fabric Technology	--	--

Department of History

Name	Qualification	Designation	Specialization	No.of Years of Experience	No.of Ph.D Student guided last 4 years
Dr. Moirangthem Pramod	M.A., M.Phil., Ph.D.	Assistant Professor	Ancient Indian History, Culture and Archeology	9	--
Ms. Parampreet Kaur	M.A., M.Phil.,	Assistant Professor	Modern History	4	--
Ms. Sarika Dhiman	M.A.	Assistant Professor	Ancient Indian History, Culture.	1	--
Ms. Sunita Panigrahy	M.A., M.Phil.,	Assistant Professor	Modern History	2	--
Ms. Shikha Sharma	M.A.	Assistant Professor	Modern History	4	--

Department of Hindi

Name	Qualification	Designation	Specialization	No.of Years of Experience	No.of Ph.D Student guided last 4 years
Dr. Sunila Sharma	M.Phil. Ph. D.	Assistant Professor	Plays	31	--
Dr. Pratibha Kumari	Ph.D.	Assistant Professor	Nibandh	12	--

Department of Journalism & Mass Communication

Name	Qualification	Designation	Specialization	No.of Years of Experience	No.of Ph.D Student guided last 4 years
Dr. Priya Chadha	M.A. Ph.D.	Assistant Professor	Media Communication, Print Media Advertising and Public Relations	10	--
Ms. Divya Jyoti Randev	M.A.	Assistant Professor	Print Media, Advertising & Public Relations	2	--
Mr. Rajnish Sharma	M.Sc., M.Phil, M.M.C.	Assistant Professor	Journalism; Print Media, Electronic Media Research: Obesity, Diabetes & Metabolic Syndrome	8	--

Department of Mathematics

Name	Qualification	Designation	Specialization	No.of Years of Experience	No.of Ph.D Student guided last 4 years
Mr. G.K.Saini	M.A., M.Phil.	Associate Professor	Algebraic Number Theory	35	--
Mr. Puneet Sharma	M.Sc.(Hons.)	Assistant Professor	Differential Equations	8	--
Dr. Sargam Preet	Ph.D., M.phil, M.Sc.(Hons)	Assistant Professor	Fluid Dynamics	15	--
Dr. Mahak Sharma	Ph.D., M.Sc.	Assistant Professor	Algebra-Group Theory	10	--

Ms. Kavita Chhabra	M.Sc.	Assistant Professor	Analysis	4	--
Ms. Shilpy Singla	M.Sc.	Assistant Professor	Analysis	3	--
Ms. Ramanpreet Kaur	M.Sc.	Assistant Professor	Probability	2	--

Department of Music

Name	Qualification	Designation	Specialization	No.of Years of Experience	No.of Ph.D Student guided last4 years
Dr. Kulwinder Kaur	MA, Ph.D.	Assistant Professor	Instrumental Sitar	2	--

Department of Punjabi

Name	Qualification	Designation	Specialization	No.of Years of Experience	No.of Ph.D Student guided last4 years
Ms. Manpinder Kaur	M.A., M.Phil.	Associate Professor	Sufi Poetry	34	--
Dr. Harvinder Chahal	M.A. Hons Ph.D.	Assistant Professor	Novel & story	13	--
Ms.Sunita Rani	M.A., M.Phil.	Assistant Professor	Novel & story	5	--
Ms. Harpreet Kaur	M.A., M.Phil.	Assistant Professor	Novel & story	2	--

Department of Public Administration

Name	Qualification	Designation	Specialization	No.of Years of Experience	No.of Ph.D Student guided last4 years
Mr. Rakesh Mehta	M.A, M.Phil.	Associate Professor	Development Administration	31	--

Department of Physical Education

Name	Qualification	Designation	Specialization	No.of Years of Experience	No.of Ph.D Student guided last4 years
Ms. Suman Sharma	M.A.	Associate Professor	Basketball Badminton	31	--
Dr. Safri Lal	M.A., Ph.D.	Associate Professor	Wrestling	30	--
Mr. Rakesh Verma	M.A.	Assistant Professor	Basketball Netball	6	--
Dr. Rajinder Mann	M.A., Ph.D.	Assistant Professor	Swimming Waterpolo	6	--

Department of Psychology

Name	Qualification	Designation	Specialization	No.of Years of Experience	No.of Ph.D Student guided last4 years
Dr. Tarun Deep Kaur	M.A., Ph.D. PG Diploma in Counseling	Assistant Professor	Counseling & Clinical Psychology	12	--

Dr. Jatinder Kaur	M.A. , Ph.D.	Assistant Professor	Sports Psychology, Clinical & Health Psychology	13	--
Dr. Minakshi Rana	M.A., M.Phil. Ph.D.	Assistant Professor	Clinical Psychology	5	--
Mrs. Seema Aggarwal	M.A.	Assistant Professor	Clinical , Child & Counseling Psychology	3	--
Dr. Ibadat Khan	M.A, Ph.D.	Assistant Professor	Clinical Psychology & Counseling Psychology	1	--

Department of Political Science

Name	Qualification	Designation	Specialization	No.of Years of Experience	No.of Ph.D Student guided last4 years
Ms. Seema Kumari	M.A., M. Phil.	Assistant Professor	Indian Political System	17	--
Ms. Monika Soni.	M.A.	Assistant Professor	Human Rights.	13	--

Department of Statistics

Name	Qualification	Designation	Specialization	No.of Years of Experience	No.of Ph.D Student guided last4 years
Ms. Parneeta	M.Sc. , M.Phil.	Associate Professor	Statistics	31	--
Ms. Yashica	M.Sc.	Assistant Professor	Statistics	7 Months	--

Department of Sanskrit

Name	Qualification	Designation	Specialization	No.of Years of Experience	No.of Ph.D Student guided last 4 years
Dr. Devi Singh	M.A., Ph.D.	Assistant Professor	Sanskrit	6	--

Department of Sociology

Name	Qualification	Designation	Specialization	No.of Years of Experience	No.of Ph.D Student guided last 4 years
Dr. Mona Arora	M.A., Ph.D.	Assistant Professor	Population Studies	14	--
Dr. Rinku Kalia	M.A., Ph.D.	Assistant Professor	Urban Sociology	8	--

11. List of senior visiting faculty:

Department	Senior Visiting Faculty
English	Ms. Ashima Dhir : ▪ Key Speaker, Public Relation Society of India (2010-11) ▪ Resource Person and Panel Member, The Public Relations Council of India(2011-12) ▪ Resource Person, FDP, Pt. Mohan Lal S. D. College for Women, Gurdaspur (2013-14) Ms. Meera Sharma : Panel Member, Day & Night News Channel(2012-13) Ms. Pooja Sarin : Visiting Faculty for Expert Talk, TEQIP-II, FDP, at Dr. S.S.Bhatnagar University Institute of Chemical Engineering & Technology, Panjab University, (2013-14)

Economics	Mr. Gagandeep Sharma : - Visiting Faculty for Expert Lecture, University of Fraser Valley, Abbotsford, BC, Canada,(2014-15) - Resource Person, Orientation Course, Navodaya Leadership Institute, Navodaya Vidyalaya Samiti, Chandigarh (2014-15) - Resource Person, Refresher Course , Academic Staff College, Himachal Pradesh University, Shimla (2014-15) Dr. Arti Jolly : Visiting Faculty for Expert Lecture, Kendriya Vidyalaya Sangathan, Zonal Institute of Education & Training, Chandigarh (2014-15)
Fashion Designing	Ms. Sumita Sikka : Regular Visiting Faculty in NIIFT, Mohali as External Jury Member for Degree Projects.
History	Dr. Moirangthem Pramod : Visiting Faculty in IAS Study Circle , P.U. as Resource Person, 2014 and 2015.
Mathematics	Mr. Puneet Sharma : Resource Person, GANIT WEEK at Mount Carmel School, Chandigarh, (2014-15)

12. Percentage of lectures delivered and practical classes handled (program-wise) by temporary faculty

Department	Name of Program	Theory	Practical
English	B.A.	23%	--
	B.A. with Hons.	--	--
	B.A.Func. English	--	--
	B.A. Elective English	14%	--
	Add on Func. English	100%	100%
	B.Com.	--	--
	B.B.A.	--	--
	B.Sc. II	80%	--
	B.Voc.	100%	100%
	B.C.A	--	--
	B.Sc I (Hons)	--	--
Economics	Name of Program	Theory	Practical
	BA Hons	100%	--
	BA	86.30%	--
	B Com Hons	33.33%	--
	B Com	19.60%	--
	BBA	36.36%	--

	MA	31.57%	--
	MBE II	75%	--
	MEFB	44.44%	--
	M. Com.	50%	--
	PGDMM	100%	--

Fashion Designing	Name of Program	Theory	Practical
	B.A (F. Designing)	71%	43%
	Add-on F. Designing	75%	45%
	B. Voc (F. Tech.& Apparel design)	54%	50%

History	Name of Program	Theory	Practical
	B.A.	66.6%	--
	B.C.A.	100%	--
	B.B.A.	100%	--
	B. Com.	100%	--
	B. Sc.	100%	--
	B. Sc.(Hons.)	100%	--

Journalism & Mass Comm	Name of Program	Theory	Practical
	PGDMC	66%	--
	Elective Journalism	33%	--
	Add-On Journalism	100%	--
	Add-On Video Reporting	100%	--

Mathematics	Name of Program	Theory	Practical
	B.A.	57.14%	100%

Punjabi	Name of Program	Theory	Practical
	B.A.	40%	--

Psychology	Name of Program	Theory	Practical
	B.A.	80%	80%
	B.A. with Hons	75%	--
	Add on Child Psychology	100%	100%
	Add on Guidance & Counseling	100%	100%

Statistics	Name of Program	Theory	Practical
	B.A.	50%	50%

Sociology	Name of Program	Theory	Practical
	B.A.	38.75%	--
	B.A. with Hons	40%	--

13. Student-Teacher Ratio (programmewise):

Name of Program	Student-Teacher Ratio
B.A.	25:1
M.A. (Eco)	23:1
PGDMC	15:1
B.Voc.(Agri Business)	1:1
B.Voc (FTAD)	4:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

English	01
Fashion Designing	01
Music	01
Physical Education	01 Assistant Cum Store keeper 02 Grounds men
Psychology	01 Laboratory Assistant
Other Departments	Nil

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil/ PG* :

Total Faculty (Arts) = 80, [Ph.D. = 31 , M.Phil.=18, PG=31]	
Department	Qualifications of Faculty (* Refer to 10. Above)
English	Ph.D. : 8, M. Phil: 5, PG : 4
Economics	Ph.D. : 6 , M. Phil : 3, PG : 11
Fashion Designing	PG : 4
History	Ph.D. : 1 , M. Phil : 2, PG : 2
Hindi	Ph.D. : 2
Journalism & Mass Comm	Ph.D. : 1 , M. Phil: 1, PG: 1
Mathematics	Ph.D. : 2 , M. Phil: 1, PG: 4
Music	Ph.D. : 1
Punjabi	Ph.D. : 1 , M. Phil: 3
Public Administration	M. Phil: 1
Physical Education	Ph.D. : 2 , PG: 2
Psychology	Ph.D. : 4 , PG: 1
Political Science	M. Phil: 1, PG: 1

Statistics	M. Phil: 1, PG: 1
Sanskrit	Ph.D. : 1
Sociology	Ph.D. : 2

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received :

-- Nil --

17. Departmental projects funded by DST-FIST;UGC, DBT, ICSSR,etc.and total grants received :

-- Nil --

18. Research Centre/ facility recognized by the University :

-- Nil --

19. Publications: a) Publication per faculty

Department	(Publications) : (Total No. of Teachers)
English	102 : 17
Economics	80 : 20
Fashion Designing	9 : 4
History	24 : 5
Hindi	12 : 2
Journalism & Mass Comm	23 : 3
Mathematics	18:7
Music	4:1
Punjabi	4:4
Public Administration	0:1
Physical Education	0:4
Psychology	37:5
Political Science	17:2
Statistics	0:2
Sanskrit	24:1
Sociology	13:2

19. Publications : b) Number of :-

- Papers published in peer reviewed journals (national/ international) by faculty & students
- Publications listed in International Database (For Eg:Web of Science,Scopus,Humanities International Complete,Dare Database-International Social Sciences Directory,EBSCO host, etc.)
- Books with ISBN / ISSN numbers with details of publishers
- Monographs
- ChapterinBooks
- BooksEdited
- CitationIndex*
- SNIP*
- SJR*

- Impactfactor *
- h-index*

*Total

Department	Peer reviewed	International Database	Books	Chapter in Books	Monographs	Books Edited	Citation Index	SNIP	SJR	Impactfactor	h-index
English	48	31	1	12	-	-	-	-	-	-	-
Economics (10 by students)	72*	-	5	-	-	2	-	-	-	-	-
Fashion Designing	5	-	-	4	-	-	-	-	-	-	-
History	21	-	1	1	-	1	-	-	-	-	-
Hindi	9	-	-	3	-	-	-	-	-	-	-
Journalism & Mass Comm	21	-	-	-	-	2	-	-	-	-	-
Mathematics	12	-	6	-	-	-	11	2.266	2.158	2.956	20
Music	2	-	-	2	-	-	-	-	-	-	-
Punjabi	4	-	-	-	-	-	-	-	-	-	-
Public Admn	-	-	-	-	-	-	-	-	-	-	-
Physical Education	-	-	-	-	-	-	-	-	-	-	-
Psychology	35	-	2	-	-	-	-	-	-	-	-
Political Science	17	-	-	-	-	-	-	-	-	-	-
Statistics	-	-	-	-	-	-	-	-	-	-	-
Sanskrit	20	-	2	-	-	-	-	-	-	-	-
Sociology	7	-	-	6	-	-	-	-	-	-	-

19. Publications : Books with ISBN / ISSN numbers with details of publishers

Department	Books with ISBN/ISSN numbers with details of publishers
English	Dr. Manisha Gangahar, Kashmir's Narratives of Conflict: Identity Lost in Space and Time, Indian Institute of Advanced Study, ISBN 978-93-82396-08-6, 2013.
Economics	- Dr. Anil Parti, Quantitative Techniques (Reprint 2015) S. Dinesh Publications, 2015 - Dr. Gagandeep Sharma (Reprint 2015) , Quantitative Methods Modern Publications, 2015 - Dr. Gagandeep Sharma, Economics of Development , Modern Publications, 2013 - Dr. Madhur Mohit Mahajan , Indian Pharmaceutical Industry in the Era of Globalisation, YS International, New Delhi ISBN 978-93-837930-3-7 - Dr. Payal, Exchange Rate Mechanism and Indian Economy, Saptrishi Publication, ISBN 978-93-833381-1-5, 2014.
History	Dr. M. Pramod, "North India During the post Gupta Period – A Political Study (C.500-650C.E.)", Publisher Gyan Kosh, ISBN 9782-81-923596-8-7, 2013
Mathematics	- G.K. Saini, Dynamics with ISBN : 978-93-5181-062-9, published by Sharma Publications. - G.K. Saini, Statics with ISBN : 978-93-5181-029-2, published by Sharma Publications. - G.K. Saini, Theory of Equations with ISBN : 978-93-84367-40-4, published by Sharma Publications. - G.K. Saini, Calculus with ISBN: 978-81-924297-3-1, published by First WorldPublications. - Puneet Sharma, Differential Equations – I , ISBN : 978-93-5181-031-5, published by Sharma Publications. - Puneet Sharma, Differential Equations – II , ISBN : 978-93-5181-065-0, published by Sharma Publications.
Psychology	- Tarun Deep Kaur, "Moderators and Mediators In adolescents witnessing Parental Conflict."ISBN No: 978-3-659 - 13447- 0 : International Publishing House : Lambert - Tarun Deep Kaur, "Life Skill and Emotional Intelligence : Impact on adjustment among college students": ISBN No: 978-3-659 - 80490-8 : International Publishing House :Lambert
Sanskrit	- Dr. Devi Singh, "Baudhnyayvimarsh", ISBN : 978-81-905671-5-2, Harilila Publications, Kamla Nagar, Allahabad, 2008. - Dr. Devi Singh, "Baudhpramamimansa", ISBN : 978-93-80635-03-3, Harilila Publications, Kamla Nagar, Allahabad, 2011.

20. Areas of consultancy and income generated

Economics Department		
Sr. No	Source	Income Generated
1.	CBSE (NET)	1,24,500
2.	Seminar/Workshop	1,87,000

21. Faculty as members in a) National committees b) International Committees c) Editorial Boards.

Department	Faculty as members
Fashion Designing	a) <u>National Committees</u> : Ms. Sumita Sikka ➤ Life member of Home Science Association, India. c) <u>Editorial Board</u> : Ms. Sumita Sikka ➤ Member of Board of Studies, UIFT, P.U., Chandigarh
Mathematics	a) <u>National Committees</u> : Dr. Sargam Preet ➤ Life member of Punjab Academy of Sciences ➤ Life member of Indian Society of Theoretical and Applied Mechanics ➤ Life member of Indian Society of Industrial and Applied Mathematics
Psychology	a) <u>National committees</u> : Dr. Tarun Deep Kaur : ➤ Member, Panel of committee “Prevention of Sexual harassment for women at the work place” as a Psychological Advisor for NABARD (National Bank for Agriculture and Rural Development). ➤ Life member of National Association of Psychological Science (NAPS) Dr. Jatinder Kaur : ➤ Life Member of Sports Psychology Association of India Dr. Ibadat Khan: ➤ Life Member of National Association of Psychological Science, Chandigarh b) <u>International Committees</u> : Dr Tarun Deep Kaur ➤ Life member of International Association of Holistic Psychology. Mrs Seema Aggarwal ➤ Life member of International Association of Holistic Psychology. Dr Ibadat Khan ➤ Life member of International Association of Holistic Psychology.

22. Student projects

- Percentage of students who have done in-house projects including inter-departmental program
- Percentage of students placed for projects in Organizations outside the institution i.e. in Research laboratories/ Industry/ other agencies

Department	% in-house projects	% outside projects
English	Nil	100% B.A. III Functional English
	The Functional English students of the college undergo internship in their second and third years with various newspapers/agencies : The Tribune, Hindustan Times, Dainik Bhaskar, All India Radio, Doordarshan, PR agencies, Advertising agencies, Copywriting. Few of our students have recently completed their internship in Community Radio from Desh Bhagat University, Mandi Gobindgarh. Another student did her internship with the prestigious news channel CNN-IBN .	
Economics	50%	Nil
Hindi	44%	Nil
Journalism & Mass Communication	75%	Nil
Psychology	Nil	100% of students of Advance Diploma in Guidance & Counselling were placed for the project (Internship) with Aastha Therapeutic Intervention Institution and ISHH Guidance and Counselling Centre
Other Departments	Nil	Nil

23. Awards/ Recognitions received by faculty and students

English	Faculty Awards/Recognitions : ➤ Dr Archana Sahni ▪ Simcoe Special Fellowship, University of Toronto 1992-1993 ▪ Toronto Doctoral fellowship, University of Toronto 1994-1995, 1995-1996 ▪ Agha Shahid Ali poetry Prize ▪ E.J. Pratt Prize in Poetry ➤ Ms. Poorva Trikhia Gold Medal in M.Phil., 2015

Hindi	Faculty Awards/Recognitions : ➤ Dr Pratibha Kumari Honoured by ‘ Akhil Bhartiya Sahitya Parishad Evam Vivekanand Vichar Manch’, Chandigarh, for commendable contribution to Indian Language and Literature on 15 October, 2015.
Music	Faculty Awards/Recognitions : ➤ Dr Kulwinder Kaur ▪ Shri Vani Bhai Rao Memorial Gold Medal ▪ Ustad Mustak Ali Khan Memorial Gold Medal
Student Awards/ Recognitions : Many students from Arts Departments won prizes every year in academics, quiz, debate, declamation & youth festival competition, extracurricular activities and sports. The Students of <u>Fashion Designing</u> have won prizes in Pakhi making, Phulkari making, Kasuti in Youth Festival Heritage Items. Students of <u>Journalism & Mass Comm</u> have won many Awards&Recognitions : ➤ Academic Scholarships – 01 ➤ Cultural Achievements/Prizes- 10 ➤ Sports Scholarships- 04 ➤ Promises / Vicchora (On Honour Killing): ▪ It was nominated at 3rd Jaipur International Film Festival (JIFF), in January 2012. It was selected amongst 144 films out of total 917 entries from 67 Countries. ▪ Won First Prize in SOCH-2011 Media Fest organized by the School of Communication Studies, Panjab University Chandigarh. ➤ MRIG TRISHNA: (On Maqboolpura locality (known as village of widows) of Amritsar ▪ Won First Prize in SOCH-2012 Media Fest organized by the School of Communication Studies, Panjab University Chandigarh. ▪ It was nominated at 3rd Jaipur International Film Festival (JIFF), in January 2012. It was selected amongst 144 films out of total 917 entries from 67 Countries. ▪ Adjudged Best Documentary in Indian Cine Film Festival Mumbai-2014 ➤ ANKAHI ANSUNI (On Lives of Marriage Band Players) ▪ Adjudged Best Documentary in 3rd Bangalore Short Film Festival held at Bangalore. ▪ It was nominated at 7th Jaipur International Film Festival (JIFF), in January 2015. It was selected amongst 159 films out of total 1807 entries from 100+ Countries. Students of <u>Music</u> have won prizes in PU Zonal Youth Festival (2015-16) , First Prize in Indian Orchestra, First prize in Folk Orchestra and Third prize in non Percussion. In PU Inter Zonal Youth Festival (2015-16), Third prize in Indian orchestra and Third prize in Folk orchestra. Students of <u>Psychology</u> have won First prize in poster presentation in UG category in International conference held in Punjab University “World Congress Conference” , October 2015.	

24. List of eminent academicians and scientists/visitors to the department

Department	List of Visitors to the Department
English	▪ Professor Rana Nayar, then Chairperson, Department of English, Panjab University , 2011 ▪ Professor Shelley Walia, Former Chairperson, Department of English, Panjab University , 2012 ▪ Mr. Sunjeev Sahota, British Novelist, 2013 ▪ Dr. Arun Kumar Grover, Vice-Chancellor, Panjab University , 2013 ▪ Professor Rumina Sethi , Department of English and Cultural Studies, Panjab University, 2013 ▪ Professor Anupama Vohra, Department of English, Jammu University, 2014 ▪ Professor Gurupadesh Singh, Guru Nanak Dev University, Amritsar , 2014 ▪ Mr P. K.Khurana, Founder & Chairman of Quick Relations ▪ Mr Amith Prabhu, Dean of Indian School of Communications & Reputation, 2015
Economics	▪ Prof. Upinder Sawhney, Department of Economics, Panjab University, January, 2014 ▪ Prof. Manoj K. Sharma, University Business School, Panjab University, February, 2014 ▪ Dr. Smita Sharma, Assistant Professor, Department of Economics, Panjab University, September, 2014 ▪ Prof. Karamjit Singh, University Business School, Panjab University Chandigarh, February, 2015.
History	▪ Prof. Devandra Handa (Numismatician), Renowned Numismatician & Chairman, Department of Ancient Indian History, Culture & Archaeology, P.U., Chandigarh, 2014. ▪ Dr. V.N. Prabhakar (Archaeologist), Superintendent of A.S.I., North Western India and Supervisor of Rakhi Garhi, Excavation Site, 2014. ▪ Prof. Ashvini Agrawal, Former Dean, Faculty of Arts, P.U. and Chairman, Department of Ancient Indian History, Culture & Archaeology, P.U., Chandigarh, 2014 ▪ Prof. N.K. Ojha, Former Chairman, Department of Ancient Indian History, Culture & Archaeology, P.U., Chandigarh, 2014.
Hindi	▪ Dr. Yojana Rawat , Correspondence Courses, P.U., Chandigarh
Journalism & Mass Communication	▪ Mr. Sanjiv Dosajh, Programme Executive, All India Radio, Chandigarh ▪ Mr. Ritesh Lakhi, News Head–PTC channel, Chandigarh ▪ Mr.Rajesh Ahuja, special correspondent, The Hindu ▪ Mr. Ashutosh Kapila, Producer, ETV Department NITTTR, Chandig ▪ Dr. Archana Singh, Chairperson, School of communication Studies, Panjab University,Chandigarh ▪ Mr. S.P. Singh, Director, Institute of Radio Jockeying, Chandigarh ▪ Mr. Vivek Atray, Director, HARTON

	▪ Mrs. Aruti Nayar, Chief Sub-Editor, The Tribune, Chandigarh ▪ Mr. Mandeep Sodhi, Director of Sodhi Creative Films from Canada ▪ Ms. Renuka Salwan, Deputy Director, PR, Bureau of Indian Standard ▪ RJ Pankaj, 92.7 Big FM ▪ Mr. Dinesh Kumar, Associate Editor, The Tribune ▪ Mr. Kamal Arora, Chairman, Chandigarh Sangeet Natak Akademi ▪ Mr. Ojaswee Sharma, Director, Rolling Scenes Entertainment
Psychology	▪ Prof. Vidhu Mohan, Retd. Prof., Department of Psychology, P.U., Chandigarh ▪ Prof. Jagat Jerath, Retd. Prof., Department of Psychology, P.U., Chandigarh ▪ Prof. Meena Sehgal, HOD, Department of Psychology, P.U., Chandigarh ▪ Dr Bharati Kapoor, Practicing Special Educator & EFT Trainer, Chandigarh. ▪ Mr. V.K. Kapoor, Retd. IPS Officer.
Political Science	▪ Justice R.S .Mongia, Judge(Rtd) ,Sikkim High Court. ▪ Justice Vinod Dua, Judge,(Rtd),Pb and Haryana High Court, Chandigarh. ▪ Justice Rajesh Bindal ,Judge Pb and Haryana High Court, Chandigarh ▪ Dr.Sucha Singh Gill, Director CRRID, Chandigarh.
Statistics	▪ Dr. Kanchan Jain, Department of Statistics, PU ▪ Dr. Suresh Sharma , Department of Statistics, PU
Sociology	▪ Dr P.S. Jaiswal Professor Department of Laws P.U. Chandigarh ▪ Dr Sherry Sabbarwal Professor Department of Sociology, P.U. Chandigarh ▪ Dr Kiranpreet Kaur ,Professor Department of Sociology PU,Chandigarh ▪ Justice R.S .Mongia, Judge(Rtd) ,Pb and Haryana High Court,Chandigarh ▪ Justice Vinod Kumar ,Judge,(Rtd),Pb and Haryana High Court, Chandigarh ▪ Justice Rajesh Bindal ,Judge Pb And Haryana High Court, Chandigarh

25. Seminars /Conferences /Workshops organized & source of funding
a) National b) International

Department	National Seminar	National Workshop
English	01 (Funded by College) 01 (Funded by UGC)	--
Economics	01 (Funded by UGC) 01 (Funded by ICSSR)	02 (Funded by College)
Fashion Designing	--	02 (Funded by College)
History	01 (Funded by ICSSR)	--

Hindi	01 (Funded by College)	--
Journalism & Mass Comm	01 (Funded by College)	01 (Funded by College)
Punjabi	01 (Funded by College)	--
Psychology	07 (Funded by College)	04 (Funded by College)
Political Sc	01 (Funded by CDC.)	--
Sociology	01 (Funded by UGC)	--

26. Student profile programme/coursewise:

Department	Name of the Course	Applications received	Selected	*M	*F	Pass %
English	B.A. I	1942	801	533	268	56.8%
	B.A. II	562	560	347	213	73.6%
	B.A. III	466	464	290	174	68.5%

Economics	Name of the Course	Applications received	Selected	*M	*F	Pass %
	B. A. I	455	253	150	103	83.03%
	M.A. I	108	72	17	55	77%

Fashion Designing	Name of the Course	Applications received	Selected	*M	*F	Pass %
	B.A. I	91	28	6	22	Result Awaited
	B.A. II	32	32	4	28	
	B.A. III	30	30	0	30	
	B. Voc (FTAD)	25	17	2	15	

History	Name of the Course	Applications received	Selected	*M	*F	Pass %
	B.A.	631	378	315	63	85%
	BCA – I	94	94	71	23	Result Awaited
	BBA – I	87	87	60	27	
	B.Com. I	223	223	92	131	
	B.Sc. I	253	253	98	155	
	B.Sc.(Hons) I	32	32	26	06	

Hindi	Name of the Course	Applications received	Selected	*M	*F	Pass %
	B.A. I	146	79	65	14	Result Awaited
	B.A. II	31	31	21	10	
	B.A. III	24	24	21	3	
	B.A. II Hons	07	07	4	3	
	B.A. III Hons	06	06	3	3	

Journalism & Mass Comm	Name of the Course	Applications received	Selected	*M	*F	Pass %
	PGDMC	70	21	9	12	Result Awaited
	Elective Journalism	120	73	56	119	
	Add On Journalism	109	39	17	22	
	AddOn Video Reporting	70	30	18	12	
Mathematics	Name of the Course	Applications received	Selected	*M	*F	Pass %
	B.Sc.I NonMed	768	169	63	106	65.20
	B.Sc.II NonMed	237	237	92	145	94.65
	B.Sc.III NonMed	228	228	111	117	76.74
	B.A. I	120	24	15	9	Result Awaited
	B.A. II	27	27	13	14	
	B.A. III	29	29	19	10	
	B.C.A. I	318	135	108	27	
	B.C.A.III	84	84	60	24	
	B.Sc. Biotech Sem I	170	30	5	25	36.36
	B.Sc. Bioinfo Sem I	46	24	3	21	36.36
	M.Sc.Bioinfo Sem I	16	10	3	7	75
Music	Name of Course	Applications received	Selected	*M	*F	Pass %
	B.A. I	79	36	31	5	Result Awaited
	B.A. II	29	29	26	3	
	B.A. III	21	21	19	2	
Punjabi	Name of Course	Applications received	Selected	*M	*F	Pass %
	BA I	73	36	34	2	Result Awaited
	BA II	15	15	13	2	
	BA III	10	10	9	1	
	BA I	763	332	238	94	
	BA II	217	217	151	66	
	BA III	189	189	128	61	
Public Administration	Name of Course	Applications received	Selected	*M	*F	Pass %
	BA I	461	168	120	48	Result Awaited
Physical Education	Name of Course	Applications received	Selected	*M	*F	Pass %
	BA I	528	252	226	26	Result Awaited
	BA II	162	160	144	16	
	BA III	130	128	116	12	

Psychology	Name of Course	Applications received	Selected	*M	*F	Pass %
	BA I	398	153	64	89	100
	BA II	126	126	45	81	100
	BA III	110	104	39	65	100

Political Science	Name of Course	Applications received	Selected	*M	*F	Pass %
	BA I	811	349	280	69	100 %
	BA II	260	247	193	54	94 %
	BA III	484	166	103	63	100%

Sanskrit	Name of Course	Applications received	Selected	*M	*F	Pass %
	BA I	39	29	20	09	Result Awaited
	BA II	20	18	14	04	78.26
	BA III	15	13	11	02	92.30

Sociology	Name of Course	Applications received	Selected	*M	*F	Pass %
	BA I	1942	357	247	110	90
	BA II	632	236	156	80	95
	BA III	484	166	103	63	99.9
	BA II (Hons.)	19	19	06	13	100
	BA III (Hons.)	12	11	06	05	100

27. Diversity of Students

Department	Name of the Course	% of students from same state	% of students from other States	% of students from abroad
English	B.A. III General English	30.17%	68.75%	1.08%
	B.A. III Func. English	19.61%	80.39%	0.00%
	B.A. III Elective English	27.13%	72.87%	0.00%
	B.A. II General English	23.93%	75.36%	0.71%
	B.A. II Func. English	23.08%	71.79%	5.13%
	B.A. II Elective English	14.69%	84.62%	0.70%

	B.A. I General English	19.60%	78.65%	1.75%
	B.A. I Functional English	20.51%	78.21%	1.28%
	B.A. I Elective English	17.30%	82.70%	0.00%
Economics	Name of the Course	% of students from same state	% of students from other States	% of students from abroad
	BA-I	14.23%	83.79%	1.98%
	BA-II	23.22%	76.78%	00%
	BA-III	27.86%	69.15%	2.99%
	MA-I	27.78%	72.22%	00%
	MA-II	29.17%	70.83%	00%
Fashion Designing	Name of the Course	% of students from same state	% of students from other States	% of students from abroad
	B.A. I	07.15%	92.85%	0%
	B.A. II	15.70%	84.30%	0%
	B.A. III	26.70%	73.30%	0%
	B. Voc (FTAD)	47.00%	53.00%	0%
History	Name of the Course	% of students from same state	% of students from other States	% of students from abroad
	B.A. - I	18.40%	80.57%	01.03%
	B.B.A. – I	21.83%	66.67%	11.50%
	B.Com.- I	41.25%	58.75%	--
	B.Sc. – I	09.09%	89.32%	01.58%
	B.C.A. - I	18.08%	73.40%	08.51%
	B.Sc.(Hons.) – I	21.25%	78.75%	--
Hindi	Name of the Course	% of students from same state	% of students from other States	% of students from abroad
	B.A. I	17.72%	82.00%	0%
	B.A. II	51.61%	48.38%	0%
	B.A. III	50.00%	50.00%	0%
Journalism & Mass Comm	Name of the Course	% of students from same state	% of students from other States	% of students from abroad
	PGDMC	100%	--	--
	Elective Journalism	100%	--	--
	Add-On Journalism	100%	--	--
	Add On Video Reporting	100%	--	--

Mathematics	Name of the Course	% of students from same state	% of students from other States	% of students from abroad
	B.Sc N-MED Sem 1&2	11.84%	84.16%	--
	B.Sc N-MED Sem 3&4	12.24%	87.76%	--
	B.Sc N-MED III	08.33%	89.91%	01.76%
	B.A. Sem 1&2	29.16%	70.84%	--
	B.A. Sem 3&4	18.52%	81.48%	--
	B.A.III	03.45%	93.10%	03.45%
	B.C.A. Sem1&2	17.04%	77.04%	05.92%
	B.C.A.III	22.62%	77.38%	--
	B.Sc. Biotech Sem1	06.00%	93.40%	--
	B.Sc. BioInfo Sem1	04.17%	95.83%	--
	M.Sc. BioInfo Sem1	12.5%	87.50%	--

Music	Name of the Course	% of students from same state	% of students from other States	% of students from abroad
	BA I	25%	75%	--
	BA II	45%	55%	--
	BA III	19%	81%	--

Punjabi	Name of the Course	% of students from same state	% of students from other States	% of students from abroad
	B.A.Punjabi Compulsory	18.37%	81.63%	--
	B.A. Punjabi Elective	08.33%	91.67%	--

Public Administration	Name of the Course	% of students from same state	% of students from other States	% of students from abroad
	BA I	19.64%	76.19%	04.17%

Physical Education	Name of the Course	% of students from same state	% of students from other States	% of students from abroad
	BA I	22.60%	76.20%	1.20%
	BA II	26.25%	73.12%	0.63%
	BA III	32.03%	67.97%	NIL

Psychology	Name of the Course	% of students from same state	% of students from other States	% of students from abroad
	B.A. 2013-16	26.92%	73.08%	0.00%
	B.A. 2014-17	21.43%	77.78%	0.79%
	B.A. 2015-18	18.95%	79.74%	1.31%

Political Science	Name of the Course	% of students from same state	% of students from other States	% of students from abroad
	BA I	20.63%	76.79%	2.58%
	BA II	21.86%	77.33%	0.81%
	BA III	33.33%	62.82%	3.85%

Sanskrit	Name of the Course	% of students from same state	% of students from other States	% of students from abroad
	BA I	10%	90%	--
	BA II	33%	67%	--
	BA III	61%	39%	--

Sociology	Name of the Course	% of students from same state	% of students from other States	% of students from abroad
	BA I	28.44%	71.55%	2.52%
	BA II	28.44%	71.55%	2.52%
	BA III	36.97%	63.03%	1.69%

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

Most of the UG Elective and Honours stream students clear the various competitive exams.

29. Student Progression

Student progression	Against % enrolled
UG to PG	80-85%
PG to M.Phil.	12%
PG to Ph.D.	10%
Ph.D. to Post-Doctoral	
Employed	
• Campus selection	17.8%
• Other than campus recruitment	2.4%
Entrepreneurship/Self-employment	24.5%

30. Details of Infrastructural facilities

- i) Library
- j) Internet facilities for Staff & Students
- k) Class rooms with ICT facility
- l) Laboratories

Library & Laboratories

The library is a host to thousands of books related to subjects of 'Arts' for reference and conceptual development of the students and faculty members. E-books/e-journals are accessible through INFLIBNET N-List 97000/6000, <http://nlist.inflibnet.ac.in> and EBSCO database via www.search.ebscohost.com. The library is constantly updated as per the needs and the list of books provided by the department.

Department	Books/ Journals/ Magazines/Periodicals
English	- Number of Books = 66140 - Number of Journals/Periodicals = 108 - Lab = 01 for Functional English course. The lab is well equipped with projector screens and audio visual aids.
Economics	Number of books = 4480 books
Fashion Designing	- Number of Books = 260 - Number of Journal = 01 - Lab = 01
History	Number of Books = 2026 books
Hindi	- Number of Books = 3717 - Number of Journals = 02 - Number of Magazines = 11
Journalism & Mass Communication	- Number of Books = 515 - e-Book through EBSCO = 784 (Journalism), 80 (Mass Comm.), 5 (Journalism & Mass Comm.), Total = 869 - e-Books / e-Journals through INFLIBNET = 61(Journalism), 146(Allied books on advertising) - Number of Journals = 03 - Lab = 02+ 02 (Studios) +01 (ICT Classroom)
Mathematics	- Number of books(Mathematics and Statistics) = 2872 - e-books through EBSCO = 3,855 related to Mathematics - ICT Classroom = 4
Music	- Number of books = 230 books - Lab = 01
Public Administration	Number of books = 699 books
Physical Education	- Number of books = 445 books - e-books through EBSCO = 182 - Number of Periodicals = 02
Psychology	- Number of books = 870 books - Lab = 02 - Subscription for the journal of "Psychology and Developing Societies" by Sage Publication.
Political science	Number of books = 1547 books
Statistics	Number of books = 933 books
Sanskrit	Number of books = 403 books
Sociology	- Number of books = 850 books - Lab = 02

b) Internet facilities for Staff & Students

The campus is Wi-fi enabled. There are adequate internet facilities and a digital library with 48 computers. ICT enabled teaching is used to supplement the lecture method. Sufficient supplementary e-resources and reading material such as books, research journals and magazines of all kinds are provided in the library to enhance teaching and learning.

c) Class rooms with ICT facility

The college provides an excellent infrastructure with sufficient number of classrooms, ultra-modern auditorium, seminar halls, conference room and laboratories. There are 21 ICT Classrooms.

31. Number of students receiving financial assistance from college, university, government or other agencies

English	175 , For session 2015-16, out of which 52 study English as part of their course and 27 belong to the Arts stream.																			
Economics	<table><tr><td>Course</td><td>College</td><td>Sports</td><td colspan="2">Govt. / Other Agencies</td></tr><tr><td>BA</td><td>37</td><td>93</td><td colspan="2">24</td></tr><tr><td>MA</td><td>3</td><td>2</td><td colspan="2">2</td></tr></table>					Course	College	Sports	Govt. / Other Agencies		BA	37	93	24		MA	3	2	2	
Course	College	Sports	Govt. / Other Agencies																	
BA	37	93	24																	
MA	3	2	2																	
Mathematics	50																			
Music	10																			
Punjabi	46 (scholarship, fee concession for sports, Staff wards Concession)																			
Public Admn	01																			
Physical Education	<table><tr><td>Course</td><td>College</td><td>University</td><td>Govt.</td><td>Other Agencies</td></tr><tr><td>BA</td><td>160</td><td>30</td><td>200</td><td>60</td></tr></table>					Course	College	University	Govt.	Other Agencies	BA	160	30	200	60					
Course	College	University	Govt.	Other Agencies																
BA	160	30	200	60																
Psychology	<table><tr><td>Course</td><td>Sports</td><td>Other</td></tr><tr><td>BA I</td><td>34</td><td>11</td></tr><tr><td>BA II</td><td>16</td><td>08</td></tr><tr><td>BA III</td><td>03</td><td>08</td></tr></table> For session 2015-16, Scholarship :EWS, Sibling, Sport					Course	Sports	Other	BA I	34	11	BA II	16	08	BA III	03	08			
Course	Sports	Other																		
BA I	34	11																		
BA II	16	08																		
BA III	03	08																		
Political Science	51 (From College)																			
Sanskrit	01																			
Sociology	46 (scholarship, fee concession for sports, Staff wards Concession)																			

32. Details on student enrichment programmes (special lectures/ workshops/ seminar) with external experts

Department	Student Enrichment Programmes
English	Renowned academicians, famous writers and external experts are invited by the department for special lectures, conducting workshops and presiding over in seminars as a part of student enrichment program and faculty development program. Given below is the list of such departmental activities over the last 5 years: • Talk on Shakespeare, by Professor Rana Nayar, Chairperson, Department of English, Panjab University, 2010-11. • Lecture on relevance of English Studies, by Professor Shelley Walia, former Chairperson, Department of English, Panjab University and member of PU Senate and Syndicate, 2012-13. • Interactive session with young British novelist Sunjeev Sahota, & Panjab University Vice-Chancellor Professor Arun Kumar Grover, 2013-14. • Lecture on Gender Politics, by Professor Rumina Sethi, Department of English and Cultural Studies, Panjab University, 2014. • National Seminar Organized on 'Representation of the Marginalized in Contemporary Literature', Prof. Anupama Vohra, Department of English, Jammu University (keynote speaker) and Professor Gurupadesh Singh, Guru Nanak Dev University, Amritsar (valedictory speaker), 2014-15. • Seminar on Public Relations , Speaker - Mr PK Khurana, Founder and Chairman of Quik Relations and Mr Amith Prabhu, Dean of Indian School of Communications & Reputation, 2015-16.
Economics	• Lecture Series by Prof. Upinder Sawhney, 2014. • Lecture Series by Prof. Manoj K Sharma, 2014. • Lecture Series by Dr. Smita Sharma, 2014. • Workshop on SPSS by Dr. Tejinder, 2014. • Workshop on Soft Skill Development by Mr. Rohit Kwatra, 2014. • Workshop on Computational Economics, and Dr. Nitin, Dr. Kapil, Dr. Arun, 2015.
Fashion Designing	• Visit to Annual Craft Mela at Kala Gram, Chandigarh by Chandigarh Administration to give practical exposure to students and for interaction with shilp Gurus. • Regular visit to Govt. Emporiums of different states in Chandigarh. • Visits to Industry by the students along with Faculty members.
Journalism & Mass Comm	• The department had organised a lecture by Mr. Sanjiv Dosajh, Programme Executive, All India Radio on January 20th, 2011. • The department had organised a media seminar on February 5th, 2011. Eminent personalities from the fields of academia, print and electronic media like Dr. Archana Singh, Chairperson, School of

	communication Studies, Panjab University ; Ritesh Lakhi, News Head-PTC channel, Chandigarh; Sanjiv Dosajh, Programme Executive (AIR), Chandigarh; Rajesh Ahuja, special correspondent, The Hindu and Mr. Ashutosh Kapila, Producer, ETV Department NITTTR, Chandigarh • The department organised a workshop on radio jockeying skills on September 12, 2012. Mr. S.P. Singh, Director, Institute of Radio Jockeying, Chandigarh was the key speaker on the occasion. radio jockey. • The department organised a seminar on 'Ethics in media and its social responsibility' on Feb 2, 2013. The key speakers included Mr. Vivek Atray, Director, Harton; Dr. Archana R. Singh, Chairperson, School of Communication Studies, PU; and Mrs, Aruti Nayar, Chief Sub-Editor, The Tribune, Chandigarh. • The department organised a two-day workshop on February 7-8, 2013 to impart information about the technical and creative role of the editor. Mr. Mandeep Sodhi, Director of Sodhi Creative Films from Canada conducted the workshop. • The department organised a lecture on 'Public relations as a management function: Issues and strategies' on 8th Feb 2014. Renuka Salwan, deputy director, PR, Bureau of Indian Standards, spoke on the topic. • RJ Pankaj from 92.7 Big FM was invited for a lecture cum workshop. He spoke to the students about the life and work of a radio jockey, and the current trends in the radio industry.
Punjabi	Special lecture annually by eminent professors
Public Administration	Students attend lectures/Workshops/Seminars organised by Departments
Physical Edu.	28 coaches for training sportspersons
Psychology	• Career Counselling Program, 8th& 9th June, 2011 • Life Skill Testing Program, 8th August, 2011 • Psychology Fest "Paradigm", 17th Nov, 2011 • Trip of Psychology Department to Deepalaya, 26th Nov, 2011 • Career Counseling Program, 6th, 13th Feb 2012 • Career Counseling Program, 14th-23rd Feb 2013 • Seminar on "Current Perspectives and Futures Trends in Psychology", 13th Sep 2013 • Visit to Aastha Therapeutic Center, 19th Nov 2013 • "Workshop on: A new perspective to Psychology: Understanding the therapeutic and Intervention strategies.", 21st& 22nd Jan, 2014 • Talk on Stress Management, 21st Feb 2014 • Session of Meditation organized by Department of Psychology, 22nd Nov, 2014 • Inauguration of "Manasuday", 25th Nov, 2014 • Movie Screening for B.A III , 1st Nov, 2014 • Educational tour to Shimla, February 2015

	• Life Skill Testing, 31st Aug - 4th Sep, 2015 • One day workshop on EET: Emotional Empowerment Technique, 19th September 2015 • Movie Screening for B.A III2, 1st Nov, 2015 • Visit to Mental Hospital : Adarash Nagar, Jaipur, 17th - 19th Jan, 2016.
Political Science	• Lecture on General Tax System and Judiciary by Justice Vinod Dua, 2010. • Lecture on Domestic Violence by Justice R.S. Mongia, 2011. • A Lecture was delivered Dr. Sucha Singh Gill on the topic Life and Philosophy of Shaheed Bhagat Singh , 2015.

33. Teaching methods adopted to improve student learning

- Effective lecture method
- Question - Answer method
- Discussion and Debate
- Regular Tests
- Classroom Presentations
- Research activities and projects.
- Practical demonstration is given to students in small groups.
- Power point presentations and use of other Multimedia techniques.
- Role plays
- Industrial Visits

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

The 'Faculty of Arts' is committed to Institutional Social Responsibility and Extension activities with strategic focus on ethics, sustainability and environmental responsibility. Various guest lectures, seminars and workshops are organized on social issues such as 'Gender Sensitization', 'Gender Politics', etc.

The Faculty members from 'Arts' departments plays a pivotal role in the college voluntary organization named "Spirit India", which regularly conducts different activities in collaboration withan NGO 'Avahan', on problems relating to social issues like female foeticide, dowry , child labor, education of poor children etc. Several events are conductedevery year like Blood Donation Camp, Holi and Diwali celebration with the underprivileged children, Street plays on Road safety, Youth Awareness drives, Cleanliness Drives, and Swacch Bharat Campaign.

The Department of Cosmetology and Fashion Designing work in association with 'Kaushalaya Devi Verma Charitable Institute for Women', to help poor women get professional training in fashion designing and tailoring. The Annual Exhibition 'Tradition' conducted by the Department encourage trainees by displaying their stitching skills. Various workshops and seminars are also conducted on the related subjects. So far, 74 batches have successfully completed the courses and are now prolifically generating income for their families.

The Department of Psychology has initiated a unique Stress Management Centre named 'Manasuday' in the college, for dealing with everyday anxiety and stress level of students and staff members. The counsellors from the department offers services to reduce inconsequential

distress by training and providing self instructional, motivational material to them. Individual assessments & perceptions are given followed by exploration and practice in various techniques and sustainable approach towards life.

The Planning Forum under the aegis of Department of Economics donates clothes to an Old Age Home cum Orphanage named “KARTAR AASRA”.

Short films and documentaries are prepared by our students of Functional English, Journalism and Economics on social issues like dowry deaths, honor killing, drugs, cancer belt, green environment and social media. One of the documentary film ‘Unkahi Unsuni’ on the dismal lives of the wedding band players received ‘Best Student Entry’, amongst 256 short films from 40 countries in the International Short Film Festival, 2014.

Several activities are conducted by our college in association with “ENACTUS”, an International Non Profit Organization in 39 Countries around the world having over 67,000 students as active members. Its headquarters are based in USA. One of our faculty is acting as an Advisor for “ENACTUS”. It has roughly participation of 70 students under guidance of our faculty member. Presently the team is working on two projects – Jevik Kisaan Haat (Project Agriculture) in collaboration with Kheti Virasat Mission (KVM) and project Suvidha. Both these projects aim to make lives of people from all walks of life more convenient.

Different Department under ‘Faculty of Arts’ have been actively participating in the NSS unit of the college conducting several student activities, thus rendering social service to the community. Our Faculty being Assistant Programme Officer of the NSS unit of the college, regularly organizes camps promoting student participation in different events.

35. SWOC analysis of the department and Future plans

STRENGTH

- ‘Faculty of Arts’ have 80 teachers, with 31 Ph.D. and 18 M.Phil Degree holders, where 8 of them are both Ph.D. and M.Phil in their respective subjects.
- A total of 336 Publications including research papers in reputed journals and course books have been made by teachers in their specialized fields, and the list is continuously increasing with time adding more number of publications to the count.
- Apart from teaching, the Faculty of Arts also carry out different management tasks with Additional Responsibility of Coordinator (IQAC), Controller of Examinations, Bursar, Chief Warden(Boys’ & Girls’ Hostel), Chairperson(College Committee against Sexual Harassment), Staff Secretary, Coordinator (Grievance Redressal Cell), Coordinator(Adult Education), Incharge (Campus Beautification), Coordinator(Press & Public Relation), Coordinator(Placement Cell) etc.
- The students under Faculty of Arts have always shown good performance with excellent results in academics, sports as well as in extracurricular activities. There are 1826 number of students under Arts Departments. For admission in 1st year under various streams of Arts 45% of students were enrolled with more than 75% marks in previous exam required for eligibility
- The results of students in UG / PG are consistently good and the pass percentage in arts stream is 90%.
- The Departments under ‘Faculty of Arts’ have a major contribution in giving outstanding performances of students in Sports, Outreach and Extracurricular activities.

- A number of Students of 'Arts' are well placed in various companies/organizations through campus recruitment and competitive exams with a good salary package every year. The Placement Cell of the college carries out multiple placement drives at the end of every session, inviting companies from different fields.
- Effective Implementation of E-Governance: With a conviction in the principle of E-Governance as a necessity of today's digital world, the Faculty of Arts continuously put their sincere efforts in contributing their inputs through college automation ERP solution (TCS iON) for data maintenance and academic interaction, like student attendance, entry of marks, entry of leaves, uploading and downloading tutorials/ assignments, online search for book/study material etc.
- Contributing towards Institutional Social Responsibility, the faculty and students of Arts has received recognition at National and International level by making documentaries on social issues.
- In an endeavour to help students deal with their every day anxieties and stress, Faculty of 'Arts' have initiated a counseling centre, 'Manasuday' meaning Awakening of the Mind. The centre provides stress management assessment, motivational training and self instructional prescription to students.
- On completion of degree course from the college, our students have remarkably progressed to reputed organizations/ institutes to pursue further studies, advanced courses and training programmes/ Internship to hone their professional career.

WEAKNESS

- Infrastructural limitations in terms of FAR (Floor Aspect Ratio) affect the best possible outcomes of our departments.
- The student teacher ratio also needs to be reduced to optimum standard ratio in order to give more attention to students.
- Less number of Post Graduate courses.
- Less number of Sanctioned and Gant in Aid posts.

OPPORTUNITY

The departments under 'Faculty of Arts' are seeking opportunities to further improve their Teaching Methodology with ICT based delivery of lectures, utilizing e resources, to have research centre & better research oriented facilities and to start more Post Graduate courses of subjects in demand.

CHALLENGE

- Effective implementation of E Governance.
- To improve student teacher ratio.

FUTURE PLANS

- To start Post Graduate courses of subjects in demand,
- To introduce of Faculty Exchange Programmes with other institutions organizing National/International seminars, workshops.
- To have research centre with well equipped research oriented facilities.
- To enhance skill oriented courses under Kaushal Kendra and impart practical training over applied areas, with special batch of needy and rural students.
- To enhance our student performance in sports & extracurricular activities by having better and more numbers of equipments and organization of the events encouraging maximum student participation.

Evaluative Report of the Department

Faculty of Information Technology

1. **Name of the Department:** Information Technology
2. **Year of Establishment:** 1990
3. **Names of Programmes/ Courses offered (UG,PG,M.Phil.,Ph.D, Integrated Masters;Integrated Ph.D,etc.) :**
 - M.Sc. (Information Technology)
 - PGDCA(Post Graduate Diploma in Computer Applications)
 - PGDCGA(Post Graduate Diploma in Computer Graphics and Animation)
 - BCA (Bachelor of Computer Application)
 - B.Voc. (Hardware & Networking) under Deen Dayal Upadhyay Kaushal Kendra.
4. **Names of Inter disciplinary courses and the departments/units involved :**
 - Add on Course : Animation and Graphics
 - B.A./B.Sc. with IT, B.A./B.Sc. with Computer Application, B.A./B.Sc. with Computer Science (Department of Information Technology and Arts Departments)
5. **Annual /semester/choice based credit system (programme-wise) :**
 - Semester System: All Courses
 - Annual System : Add on Course
6. **Participation of the Department in the courses offered by other departments :**
 - Science and Arts Departments :
 - B.A/B.Sc. with Computer Applications
 - B.A/B.Sc. with Information Technology
 - B.A/B.Sc. with Computer Science
 - Department of Bioinformatics : M.Sc. , B.Sc. (Hons)
 - Department of Biotechnology: M.Sc. , B.Sc. (Hons)
 - Department of Commerce & Management : BBA, MEFB
7. **Courses in collaboration with other universities, industries,foreign institutions, etc. :**

Course : B.Voc.(Hardware & Networking)

In Collaboration With : “National Institute of Electronics and Information Technology (NIELIT), An autonomous Scientific Society of Dept. of Electronics & IT, Ministry of Communications &Information Technology, Govt. of India.

Industrial tie-upsfor industrial training as a part of the course is with Galactic Infotech Solutions Pvt. Ltd., Mohali, EkOmkar Infotech, Chandigarh and ShikharInfotel, Chandigarh.
8. **Details of courses/programmes discontinued (ifany) with reasons :**

-- Nil --

9. Number of Teaching Posts :

	Sanctioned	Filled
Professors	--	--
Associate Professors	--	--
Assistant Professors	20	20

10. Faculty profile with name, qualification, designation, specialization (D.Sc./D.Litt. / Ph.D/ M.Phil etc.)

S. No	Name	Qualification	Designation	Specialization	No.of Years of Experience	No.of Ph.D Student guided last 4 years
1.	Dr. Virender Singh	MCA, M.Phil., Ph.D.	Assistant Professor	Linux , Web Development, Simulation	15	--
2.	Dr. Rina	MCA, M.Phil., Ph.D.	Assistant Professor	Oracle, E-commerce, Data Mining	10	--
3.	Mr. Naveen Dalal	MCA	Assistant Professor	Artificial Intelligence	10	--
4.	Ms. Monika Sethi	MCA, M.Phil. PGDHRM	Assistant Professor	Software Engineering, Data Structure	11	--
5.	Ms. Pooja Mohan	MCA, M.Phil.	Assistant Professor	RDBMS, Graphics Sensor Network Security	13	--
6.	Ms. Gagandeep Kaur	MCA, M.Phil.	Assistant Professor	Cloud Computing, Software Engineering, Graphics	11	--
7.	Mr. Paramjit Singh Waraich	M.Tech.	Assistant Professor	Adhoc-Networks	7	--
8.	Mr. Anubhav Sharma	M.Sc.(CS), MCA, M.Phil.	Assistant Professor	DBMS, PC Software, Oracle, Computer Graphics	11	--

9.	Ms. Shailja Agnihotri	MCA	Assistant Professor	Database Management Systems Information Management and Analytics	9	--
10.	Ms. Himani Mittal	MCA, GATE UGC-NET	Assistant Professor	Artificial Intelligence, Algorithm Design and Analysis Machine Learning.	6	--
11.	Ms. Kawalpreet Kaur	M.Sc.(IT) MCA, MPhil, UGC NET	Assistant Professor	Computer Networks and Oracle	11	--
12.	Ms. Archana Goyal	M.Sc (CS) MCA, M. Phil.	Assistant Professor	Database Management System and Programming Languages	8	--
13.	Ms. Manu Sehgal	M.Sc.(IT), M.Phil.	Assistant Professor	C,C++, Unix and Linux	9	--
14.	Dr. Garima Srivastava	M.Sc.(CS), Ph.D.	Assistant Professor	Computer Architecture and Programming Languages.	8	--
15.	Mr. Abhay Singh	MCA	Assistant Professor	CBIS, Web Applications, PCS	4	--
16.	Ms. Jyoti Maini	M.Sc.(CS), M.Tech(IT)	Assistant Professor	Programming Languages, Data Structures, DBMS, Numerical Methods	8	--
17.	Ms. Preet Kamal Kaur	M.Sc.(IT), M.Phil.	Assistant Professor	Programming Languages, Data Structures, DBMS,	11	--
18.	Ms. Shweta Sharma	M.Sc.(CS), M.Tech(IT)	Assistant Professor	C++, Computer Networks	7	--
19.	Ms Osheen	MCA	Assistant Professor	Web Development (HTML, PHP, CMS)	1	--
20.	Ms Shruti	M.E.	Assistant Professor	Distributed Computing, Computer Networks	1 month	--

11. List of senior visiting faculty :**Dr. Virender Singh**

- Regular Visiting Faculty for Guest Lectures, Regional Institute of Corporate Management.
- Regular Visiting Faculty for Guest Lectures, Institute of Company Secretaries of India (ICSI), Govt. of India
- Regular Visiting Faculty for Guest Lectures, Institute of Chartered Accountant of India (ICAI), New Delhi.
- Delivered Guest Lecture, NABARD, October 2014.
- Delivered Expert Lecture in National Workshop , Kendriya Vidyalaya, 2013.
- Delivered Expert Lecture in National Workshop , Punjab Infotech, 2013.
- Delivered Expert Lecture in RBI National Workshop on Cyber Crime, Kendriya Vidyalaya, 2011.
- Delivered Guest Lecture in IET Baddal, 2015

Himani Mittal

Delivered Expert Lecture in UGC Sponsored National Workshop, organized by Department of Computer Science, Punjabi University, Patiala, 29th Nov – 5th Dec , 2012.

Dr. Garima Srivastava

Delivered Expert Lecture in DBT Sponsored STTP , Bioinformatics Centre, Department of Computer Science, A.P.S. University, Rewa (M.P.), 9th to 21st January, 2012.

Delivered Expert Lecture in DBT Sponsored National Workshop, Bioinformatics Centre, Department of Computer Science, A.P.S. University, Rewa (M.P.), 1st - 4th March, 2012.

12. Percentage of lectures delivered and practical classes handled (program-wise) by temporary faculty.

Name of Program	Theory	Practical*
M.Sc. (Information Technology)	17.3%	30.7%
Post Graduate Diploma in Computer Applications	60%	50%
Post Graduate Diploma in Graphics and Animation	100%	100%
Bachelor of Computer Application (BCA)	16.4%	4.25%
Bachelor of Vocational (B.Voc.)	50%	--
B.A/B.Sc.(IT, CAS, CS)	84.6%	83.3%
M.Sc. , B.Sc. (Hons) Bioinformatics	100%	100%
M.Sc. , B.Sc. Biotechnology	100%	100%
BBA	100%	100%
MEFB	--	--

13. Student-Teacher Ratio (programmewise):

Name of Program	Student-Teacher Ratio
BCA	1:17
M.Sc I.T	1:22
PGDCA	1:12
PGDCGA	1:1
B.Voc Hardware & Networking	1:2

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled :

Departmental Technical / Support Staff	TCS (Automation System)
05 [03 (Technical) + 02(Support)]	02

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil/ PG* :

Total Faculty = 20, [Ph.D. = 3 , M.Phil.= 8, PG= 9]

S. No.	Name	Qualification
1	Dr. Virender Singh	MCA, M.Phil., Ph.D.
2	Dr. Rina	MCA, M.Phil., Ph.D.
3	Mr. Naveen Dalal	MCA
4	Ms. Monika Sethi	MCA, M.Phil. , PGDHRM
5	Ms. Pooja Mohan	MCA, M.Phil.
6	Ms. Gagandeep Kaur	MCA, M.Phil.
7	Mr. Paramjit Singh Waraich	M.Tech.
8	Mr. Anubhav Sharma	M.Sc.(CS), MCA, M.Phil.
9	Ms. Shailja Agnihotri	MCA
10	Ms. Himani Mittal	MCA, GATE, UGC-NET
11	Ms. Kawalpreet Kaur	MSc(IT) MCA, MPhil,
12	Ms. Archana Goyal	M.Sc (CS) ,MCA, M. Phil.
13	Ms. Manu Sehgal	M.Sc.(IT), M.Phil.
14	Dr. Garima Srivastava	M.Sc.(CS), Ph.D.
15	Mr. Abhay Singh	MCA
16	Ms. Jyoti Maini	M.Sc.(CS), M.Tech(IT)
17	Ms. Preet Kamal Kaur	M.Sc.(IT), M.Phil.
18	Ms. Shweta Sharma	M.Sc(CS), M.Tech (IT)
19	Ms Osheen	MCA
20.	Ms Shruti	M.E.

16. Number of faculty with on going projects from a) National b) International funding agencies and grants received :

Name of the PI/Co-PI	Title of the Project (National Level)	Duration	Funding Agency	Cost
Dr. Virender Singh	Simulation based Learning Approach to Software Engineering and Management	03 year 2009-2012	UGC- New Delhi	9.5 Lakh
Dr. Virender Singh	Cyber Space threat and security Management	02 year 2008-2010	UGC- New Delhi	82,500
Mrs. Monika Sethi	Reusability of Component and Composition (with spl. ref. to software engineering)	02 year 2011-2013	UGC- New Delhi	2 Lakh

17. Departmental projects funded by DST-FIST;UGC, DBT, ICSSR,etc.and total grants received :

Nil

18. Research Centre/ facility recognized by the University :

Nil

19. Publications : a) Publication per faculty

S.No.	Name	Publication (Research Paper / Abstract)
1	Dr. Virender Singh	09+ 05(abSTRACT published)
2	Dr. Rina	03+05(abSTRACT published)
3	Mr. Naveen Dalal	02
4	Ms. Monika Sethi	02
5	Ms. Pooja Mohan	07+02(abSTRACT published)
6	Ms. Gagandeep Kaur	07+01(abSTRACT published)
7	Mr. Paramjit Singh Waraich	01
8	Mr. Anubhav Sharma	01+01(abSTRACT published)
9	Ms. Shailja Agnihotri	00+02(abSTRACT published)
10	Ms. Himani Mittal	02+01(abSTRACT published)
11	Ms. Kawalpreet Kaur	02+01(abSTRACT published)
12	Ms. Archana Goyal	02
13	Ms. Manu Sehgal	06+01(abSTRACT published)
14	Dr. Garima Srivastava	06+01(abSTRACT published)
15	Mr. Abhay Singh	01
16	Ms. Jyoti Maini	01+01(abSTRACT published)
17	Ms. Preet Kamal Kaur	01+02(abSTRACT published)
	TOTAL	49+23(abSTRACT published)

19. Publications: b) Number of:-

Papers published in peer reviewed journals(national/ international) by faculty & students	38
Publications listed in International Database(For Eg:Web of Science, Scopus, Humanities International Complete, Dare Database-International Social Sciences Directory, EBSCO host, etc.)	16
Books with ISBN/ISSN numbers with details of publishers	04
Monographs	--
Chapter in Books	06
Books Edited	05
Citation Index	Citations=2
SNIP	-
SJR	-
Impact Factor	12.717
h-index	6

Details of Books Published (04)

Dr. Virender Singh				
Year	National / International	Title of Book	Publisher	ISBN No.
2013	National	Windows Based Computer Courses	ABS Publisher, Jalandhar	ISBN:- 978-81-7072-108-6
2013	National	Programming Using 'C' Language	ABS Publisher, Jalandhar	ISBN:- 978-81-7072-111-6
2013	National	Fundamentals of DBMS & Oracle	ABS Publisher, Jalandhar	ISBN:- 978-81-7072-106-2
2013	National	Fundamentals of Data Structure with implementation in 'C'	ABS Publisher, Jalandhar	ISBN:- 978-81-7072-117-8

20. Areas of consultancy and income generated

Nil

21. Faculty as members in a) National committees b) International Committees c) Editorial Boards.**Editorial Board / Board of Studies****Dr. Virender Singh**

- Member, Board of Studies, Panjab University
- Member, Board of Studies, Punjab Information & Communication Technology, Sector -17, Udyog Bhavan, Chandigarh.
- Member, Board of Studies, Regional Institute of Corporate Management, Sector 32,

Chandigarh.

- Member, Editorial Board , National Seminar on "Emerging trends in Information Technology: Challenges and Strategies" on 31st January, 2014.

22. Student projects

- **Percentage of students who have done in-house projects including inter-departmental program**
- **Percentage of students placed for projects in Organizations outside the institution i.e. in Research laboratories/ Industry/ other agencies**

Courses	%in-houseprojects	% outside projects
M.Sc. (Information Technology)	100% [First Year]	100% [Final Year]
Post Graduate Diploma in Computer Applications	100%	--
Post Graduate Diploma in Graphics and Animation	--	--
Bachelor of Computer Application (BCA)	33%	--

23. Awards /Recognitions received by faculty and students

S.No.	Student Awards in Extra Curricular Activities : 2013-14
1	JASMINE SACHDEVA, BCA-III, 1st prize in Group Bhajan(Individual), 2nd prize in Group Song (Individual), 2 nd Team prize in Group Song, 2 nd Team prize Group Bhajan, in PU – Zonal Youth and Heritage Festival
2	SUO ANSHUL SINGH, BCA III, Attended NIC Amritsar, ATC Ropar
3	VARUN PATHAK, BCA-II, 2nd Team prize in Group Song Indian in PU – Zonal Youth and Heritage Festival
4	GUNDEEP SINGH, BCA-I, 3rd Team prize in Folk Dance, 3rd Team prize in Bhangra in PU – Zonal Youth and Heritage Festival
5	GURKIRAN SINGH, M.SC.II, 3rd Team prize in Folk Dance, 3rd Team prize in Folk Orchestra in PU – Zonal Youth and Heritage Festival
6	JASKIRAT SINGH, M.Sc-II, 3rd Team prize in Folk Orchestrain PU – Zonal Youth and Heritage Festival
7	SHAKSHI VERMA, MSC(I.T) , 3rd Team prize Ladies Traditional Song in PU – Zonal Youth and Heritage Festival
8	SHRUTI SUCHETA, MSC-I (IT) , 3rd Team prize Ladies Traditional Song in PU – Zonal Youth and Heritage Festival
9	MONICA SHARMA, BCA III, 1st Team Prize in Street Play at GCCBA Sector 42 Chd ; 1 st in Ad Mad Show at Amity Fest Elation 2014 ; 2 nd in Street Play Competition at Chandigarh University Fest

S.No	Name (Class BCA)	Sports	Prize
1	Kashish Malik	Ball Badminton	Silver in PUIC
2	Tushar	Chess(M)	4 th in PUIC
3	Nishu	Boxing	Participation in PUIC
4	Vikas Bihst	Baseball	4 th in PUIC

5	Vikas Bihst	Softball	4 th in PUIC
6	Varinder Singh	Baseball	4 th in PUIC
7	Varinder Singh	Softball	4 th in PUIC
8	Sunil Bihst	Baseball	4 th in PUIC
9	Sunil Bihst	Softball	4 th in PUIC
10	Sunil	Fencing	Bronze in PUIC
11	Shubham Chawla	Badminton	4 th in PUIC
12	Anirudh loomba	Taekwondo	Bronze in PUIC

24. List of eminent academicians and scientists/visitors to the department

- **Ms. Aprajita**, Senior Technical Associate, Infosys Technologies, Chandigarh. Two-Day : Workshop on *Android Software*, 12-13 Sept, 2013.
- **Mr. Anil K Gupta**, Commissioner, Excise and Taxation, UT: National Seminar on 31st January, 2014.
- **Prof. Harish Karnick**, Department of Computer Science & Engineering, IIT Kanpur : National Seminar on 31st January, 2014.
- **Mr. Prem Ojha**, Vice President, Videocon, Telecommunications : National Seminar on 31st January, 2014 and for PDP on 10th September 2014.
- **Dr. Hardeep Singh**, Professor, Department of Computer Science and Engineering, Guru Nanak Dev University Amritsar : Guest Lecture on November 2014
- **Mr. Mangat Singh Dhiman**, Chief Operating Officer, ANIWEB DESIGN, Mohali, Workshop on 18th -19th September 2015.

25. Seminars/Conferences/Workshops organized & source of funding

a) National b) International

	Seminars	Conferences	Workshops
State Level	--	--	02(Workshop) 02 (Lecture Series) 01 (PDP)
National	01 (Funded by College)	--	--

26. Student profile programme/ coursewise:

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
BCA	222	203	147	56	94.15%
B.Voc.	10	10	10	0	Result Awaited
M.Sc. (IT)	89	67	11	56	100%
PGDCA	54	37	25	12	76.67%
PGDCGA	10	4	1	3	100%

27. Diversity of Students

Name of the Course	%of students from the same state	% of students from other States	% of students from abroad
M.Sc. (Information Technology) 2014-16(Total=33) 2015-17(Total=34)	45.45% [15] 23.53% [8]	54.55% [18] 76.47 % [26]	0.00% [0] 0.00 % [0]
Post Graduate Diploma in Computer Applications 2015-16 (Total=37)	59.45% [22]	40.54% [15]	0.00% [0]
Post Graduate Diploma in Graphics and Animation 2015-16 (Total=4)	50% [2]	50% [2]	0.00% [0]
Bachelor of Computer Application (BCA) 2013-16 (Total=84) 2014-17(Total=119) 2015-18(Total=135)	22.62 % [19] 36.97 % [44] 17.03% [23]	77.38% [65] 62.18% [74] 77.03% [104]	0.00% [0] 0.084% [1] 5.92% [8]
B. Voc.(Hardware & Networking) 2015-18 (Total= 10)	60% [6]	40% [4]	0.00% [0]

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

Nil

29. Student Progression

Student Progression	Against % enrolled
UG to PG	80-85%
PG to M.Phil.	--
PG to Ph.D.	--
Ph.D. to Post-Doctoral	--
Employed	
• Campus selection	05
• Other than campus recruitment	17
Entrepreneurship/Self-employment	04

30. Details of Infrastructural facilities

- m) Library
- n) Internet facilities for Staff & Students
- o) Class rooms with ICT facility
- p) Laboratories

a) Library :

Number of books	:	9026
Number of Magazines	:	7

b) Internet facilities for Staff & Students :

- **The Department has self managed LAN switching and also provides free Wi Fi access for the whole campus:** It has wifi and wired nodes, high end core switching and routing capabilities. It has Cisco manageable switches behind firewalls. Institution provides access to different services and various servers (Windows/Linux based) for computing and storage purposes.
- **Internet Facility:** Each department, hostel, digital library and accounts office are using internet facility, where almost every computer is inter-connected. The college is interconnected with the help of an ATM network and a Gigabit network with fiber optic backbone cable allowing data rates of 2Gbps. The backbone links 8 buildings of the Campus to the Department & Hostels. Central managed switches and servers provide high speed computing as well as Internet and e-mail facilities.

c) Class rooms with ICT facility

- There are **smart classrooms** with projectors/interactive Boards installed. The computer to Student ratio during classes is 1:1 so that students can effectively use the system.
- The students at the Department have the unique opportunity of working in various development environments like MS-DOS, LINUX, MS Windows, UNIX and Database. The students also have the opportunity to work on Internet development tools among other Visual and Non-Visual ones.
- The classes are under **Surveillance Camera System**.
- It also uses software for learning Exchange (LX) system for teaching online. Teachers can upload and share lectures, videos, PowerPoint presentation, assignments, online test for students and students can access e-books through this facility.

d) Laboratories

- IT Department has 8 laboratories for enforcing practical-based education. There are eight labs having approximately 290 computers, with LCD Screen, Intel i3/ Pentium Core 2 Duo/ core i3/ core i5/ core i7, 2~8 GB RAM, 500 GB ~ 1 TB HDD, Windows 7/8 Machines.

- The central digital library facility of the computer centre has approximately 50 Pentium / Windows XP machines. For bioinformatics computing labs, there are approximately 60 Intel P4 machines.
- The department provides facility of laptops for senior officials, and other computers - Wipro/ HP/Lenovo Desktops to Mass Communication Lab, UFV Labs and offices.
- The department owns Servers: Apple iMAC MD093HN/A, HP Workstations (HPXW4600/ Z200), IBM Server X3400, Natra Spark T41 Unix Server, Xeon Server X3400M3

31. Number of students receiving financial assistance from college, university, government or other agencies

Year	Funding agency	Number of students
2013-14	College	24
2014-15	College	12

32. Details on student enrichment programmes (special lectures/ workshops/ seminar) with external experts

2013

- **12-13 Sept, 2013: A Two-Day Workshop** on *Android Software*, Ms. Aprajita, Senior Technical Associate, Infosys Technologies, Chandigarh.
- **13th - 20th Oct 2013: Educational Trip** - A trip was organized by the college to Goa from 13th to 20th Oct 2013. Around 120 students were accompanied by teachers.
- **12 Nov, 2013: Lecture Series** - The lecture series was conducted by APPIN Technologies in the campus. It was a four hours session. The topic of the lecture series was Network security covering- secured programming, cloud computing and penetration testing.

2014

- **31st January, 2014: National Seminar** - on "Emerging trends in Information Technology: Challenges and Strategies". The Chief Guest on the occasion was Mr. Anil K Gupta, Commissioner, Excise and Taxation, UT. Mr. Prem Ojha, Vice President, Videocon, Telecom and Prof. Harish Karnick, Department of Computer Science & Engineering, IIT Kanpur, were the Guest of Honour and Keynote Speaker respectively.
- **10th September 2014: Personality Development Programme** on "Management through Self -Management". The chief guest and the key speaker on the occasion was Mr. Prem Ojha, Vice president Videocon telecommunications.
- **1st - 4th Nov. 2014 : Educational Trip** - GGDSD College organized a trip to Jaipur from 01/11/14 to 04/11/14.
- **Nov 2014 : Lecture Series** - Dr. Hardeep Singh, Professor, Department of Computer Science and Engineering, Guru Nanak Dev University Amritsar delivered a guest lecture on the topic "Computing Trends"

2015

- **18th-19th September 2015 Workshop** on PHP/WORDPRESS - the program was coordinated by Mr. Mangat Singh Dhiman, Chief Operating Officer, ANIWEB DESIGN, Mohali.

33. Teaching methods adopted to improve student learning

Pattern of Lectures Delivered to enhance student's knowledge expression and answer writing skills.

A. General Discussion :

- Answer/Explanation to student queries related to concepts
- Judging and enhancing basic subject knowledge
- Guiding students to a better presentation of their answers.

B. Instructions to Attempt Question Papers :

- Emphasis on clarity, point wise description, more diagrammatic approach, answering as brief summary with technical/ conceptual points, attempting questions in order

C. Question/Answer Sets (covering complete syllabus) :

- Making students familiar with type of questions framed from their syllabus giving them especially prepared Q/A sets and solving them in the class.

D. Assignment & Tests :

- Assignment on different key topics followed by tests, to check performance of each student in the class.

E. General Performance Assessment :

- Calculating student's overall performance graph based on class attendance, College House Exams/ Mid Semester Tests.

F. Previous Year Unsolved Question Paper :

- Solving and writing answers (previous year papers)
- Observe pattern and improve on important topics for priority learning.

G. Meritorious Classes :

- Bright Students are selected from every stream and Special Lectures are delivered to them, to enhance student's knowledge, expression and answer writing skills, thus to grab top university positions.

H. Remedial Classes :

- For students weak in performance exclusive '*Remedial Classes*' are also held, where they can improve on topics with better understanding of concepts and subject knowledge.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

- A six months Kaushalya Devi Charitable Course is organized by the Department every year to provide free computer training for economically weaker section of the society (only for females). After successful completion of six months training, a certificate is awarded to the candidate.

- Students of the department actively participate in NSS, NCC, Spirit India(Student Voluntary Organization), and Red Ribbon Club (AIDS Awareness Society), thus contributing to the society through various activities. The NCC activities of the college is carried out under the Head of the Department, Dr.(Lt.) Virender Singh. The Red Ribbon Club activities are carried out under our faculty Mr. Anubhav Sharma.

35. SWOC analysis of the department and Future plans

Strength & Weaknesses

- The Department provide students with technically sound environment in a professional framework to gain knowledge, and understand the ongoing changes in the field of computing technology.
- The Department assist sister concern colleges situated in different regions of Punjab by provision of hardware equipments, network facility and its maintenance. The Department also gives assistance to the allied departments such as Biotechnology, Bioinformatics, Commerce, other Science/Arts Departments and Audio Visual Society.
- The Department, in agreement with UFV conducts Microsoft .Net classes for duration of six months. After successful completion of training, a certificate is awarded to the candidate. A nominal fee of Rs.1000 /- is charged as compared to heavy fees charged by private institutions
- The Department ensures a Dedicated Faculty and Highly Efficient Support Staff, to conduct academic / cultural events scheduled for it. The faculty makes a constant effort for upgradation of their profile.
- The Department provides best possible IT infrastructure which includes the facilities like well equipped labs with upgraded systems, projectors for smart classes, and fully centralized air condition of the entire department.
- A six months course is organized by the Department every year to provide free computer training for economically weaker section of the society (only for females). After successful completion of six months training, a certificate is awarded to the candidate.

Weaknesses: The Department is trying to cope with research orientation facilities. Inadequate research labs/funds restrict novel exploration of advanced studies for enthusing faculty members.

Opportunities & Challenges

- A major challenge to the department is to have collaborative research projects with reputed research organization/ workgroups. For the purpose the department is exploring the opportunities of raising funds/grants, and establish mutual relationship with other institutions to carry out R&D assignments.
- Another challenge is to proliferate skill development in students based on practical exposure by strengthening academia-industry linkages. Although various placement drives are carried out, high profile job prospects can be ensured by exploring opportunities of streamlining collaborations and consultancy.

POST-ACCREDITATION INITIATIVES 2011-2016

The process of re-accreditation by the NAAC peer team has motivated the college to take meaningful and progressive initiatives to strengthen the teaching learning process and to introduce student centric activities and policies including new market friendly courses, robust research culture and outreach activities. The second cycle of accreditation of Goswami Ganesh Dutta Sanatan Dharma College, Chandigarh was carried out in May 2011. The peer team made edifying observations for the quality enhancement by indicating 10 different points where it was desirable to not only enhance the quality of existing system but also to take initiatives to prepare our faculty and students meet the demands of the present day technology driven world. In addition to the recommendations of the peer team, the college has, in the last five years, undertaken many quality sustenance and enhancement initiatives. A brief overview of the post-accreditation measures undertaken is presented below.

New Courses:

There have been consistent efforts to upgrade and enrich the academic ambience by introducing new courses that can help students acquire the degree and skills to meet the challenges of employment. We have introduced 13 new courses after the second cycle of reaccreditation. **02 Research centres, 03 P.G. Courses, 02 honours courses and 06 Vocational courses** under Deen Dayal Upadhyay KAUSHAL Kendra scheme of UGC.

2010-11	2013-14	2014-15 Research centers	2014-15 Under B.Voc Scheme of UGC	2014-15 (Under Community College Scheme of UGC	Under Deen Dayal Upadhyay KAUSHAL Kendra Scheme of UGC
Innovative Course P G Diploma in Computer Graphics & Animation	M.A. Economics	Ph.D Research Centre in Biotechnology	B.Voc Food Processing	Diploma in Medical Lab Technology	B.Voc. Agri Business & Agrarian Entrepreneurship
-	M.Sc. Physics	Ph.D Research Centre in Chemistry	B.Voc Retail Management	-	B.Voc. Fashion Technology & Apparel Design
-	Honours Course in Psychology	-	-	-	B.Voc. (Hardware and Networking)
-	Honours Course in Sociology	-	-	-	

This has also lead to a steady increase in our student strength .

Student Strength

Year	Student Strength	Increased in Student Strength
2011-12	3454	-
2012-13	3630	176
2013-14	4384	754
2014-15	5002	618
2015-16	5672	670

Faculty

There has been remarkable increase in the number of highly qualified and trained faculty. Every year there is an increase in the number of Ph.Ds and also the research papers and publications by our faculty. Total number of faculty with Ph.D is 96 and total no. of research publication in last five years is 418. The college organizes expert lectures workshops and seminars to augment the awareness level of faculty and students and to keep them apprised of the latest developments and requirements. Our senior faculty has been attending seminars and workshops at International and national levels and has been acting as resource person as well.

Year	P.hD Completed	M.Phil Completed	No. Research paper/ Publication/ Proceedings	Orientation/ Refresher Course/FDP Attended	Major Minor Project Completed/ Ongoing
2015-16	09	--	72	12	02(Ongoing)
2014-15	11	01	104	15	02(Ongoing)
2013-14	02	-	92	16	4
2012-13	08	02	65	29	1
2011-12	05	-	85	13	08
Total	35	3	418	85	15

Faculty as Resource person

International Level:	06
National/State Level:	13

Seminars and Workshops Organised

S No.	Particulars	2011-12	2012-13	2013-14	2014-15	2015-16
1	Expert Lectures	1	2	9	18	8
2	Workshops	1	5	11	11	18
3	Seminars	4	6	6 (2 National Seminar)	10 (2 National Seminar)	2 (2 National Seminar)

FACULTY DEVELOPMENT PROGRAMMES:

Regular Faculty Development Programmes and ISW (Instructional Skill Workshops)
the relevance of the Faculty Development Programmes (FDP) was discussed in IQAC meetings and it was decided that regular training programmes for the faculty are organized in order to refresh and update the teaching staff from time to time as per the need of the modern

education system. The FDP is aimed at imparting participatory learning and the building of community that can transfer back into the classrooms and the institution.

The college holds **Instructional Skill Workshops (ISWs)**, an internationally recognized peer based faculty development programme for both new and experienced faculty, on regular basis. It has been introduced to facilitate a platform for teachers to upgrade and update themselves in terms of teaching skills and pedagogy. During the one-week long workshop, the participants design and conduct three mini lessons and receive verbal, written and video feedback from the other participants who have been learners in the mini lessons. The workshop encourages reflection and examination of one's teaching practice with feedback focused on the learning process rather than on the specific content of the lesson.

The college has conducted six one week long FDP's under ISW and 4 other one week long FDP's for its faculty.

Collaborations Linkages and Networking:

Our College had inked an MOU with University of the Fraser Valley in 2006 with a view to prepare ourselves for global educational demands. We have also industrial tie ups and service agreements with different companies for training our staff and students.

Collaborations

S.No	Scope of Interaction	Course	Name of Company	Year of MOU
1	Automation Solutions	ERP Solutions	Tata Consultancy Services	2015
2	Industrial tie up for Practical Training	B.Voc Computer Hardware & Networking)	National Institute of Electronics & Information Technology, Mohali Panjab	2015
3	Industrial tie up for Practical Training	B.Voc Agri. Business and Agrarian Entrepreneurship	Dairy development Board Panjab	2015
4	Industrial Training	B.Voc Fashion & Apparel Designing	Nahar Fabrics, Lalru, Pb. Innovative designs, Delhi.	2015
5	Industrial tie up	B.Voc Food Processing	HPMC Ltd.Fruit Processing Plant	2014
6	Industrial tie up	B.Voc Retail Management	Big Bazaar & Metro Cash and Carry Zirakpur, Punjab.	2014
7	Retail Sector	NSDC	EoSEduventures Pvt.	2014

	Training Program		Ltd.	
8	Industrial tie up	DMLT	Satyam Diagnostics lab Sector 45,Chd. SRL Lab Sector 32,Chd	2014
9	Industrial tie up	NET	Microsoft Corporation India Pvt.LTD Gurgaon	2013
10	Coaching & Training	NCCMP	National Stock Exchange	2011
11	MoU	BBA	University of Fraser Valley , Canada	2006
12	Twining Program	Student Teacher Exchange	Alliance FrancaiseSector 36 Chd	2007
13	Campus Analyser	ERP Solutions	Shalimar Infotech Pvt Ltd.	2006

FACILITIES

Complete automation: With an aim to improve the e-governance of the institution, it was imperative to update the administrative system to support a smooth functioning of the institution. A committee was constituted that included members of the college IT department and members of non-teaching/office staff, who under the guidance and supervision of the Principal and the Registrar, worked out the details of software requirements of the college administrative work. The committee also identified and finalized the selection of software/modules to be adopted for the purpose. In order to maintain students' record, official data and related documentation, right from the admission process to the section formations of various subjects/classes to maintaining a proper record of students' daily attendance and their awards in the house examination, etc., total automation of the system came handy. The new software has made the functioning more conducive and time efficient. Applications systems is providing many services and facilities to the college which includes the following:

Implementation Services: Delivers a completely Configured system ready for end users to transact and extract output on day to day basis.

- TCS iON Academics
- TCS iON Support Services Solution
- TCS iON Administrative Services Solution
- TCS iON Smart Identity Management Solution

Managed Services: A service delivered as an output, manages the event and process end to end.

- TCS iON Admission Solution
- TCS iON Exam Grade Management Solution
- TCS iON Payroll Solution

Self Services: It provides a user intuitive solution that gives users the flexibility to configure, transact and leverage output themselves.

Learning Exchange Module (LX Module): The college has also worked on (in collaboration with TCSion) hosting learning exchange which proves to have the additional

advantage of being rapidly deployable in terms of platform as well as content delivery. A hosted learning solution is the need in the contemporary scenario, both in terms of infrastructure requirements and cost effectiveness. Apart from being useful for exploring the possibilities of responding to students' needs and expectations and helping course teams formulate pragmatic methods of digitally supporting the system, it can prove to be the basis on which curriculum can be designed and efficiently implemented. It has been established on the basis of student outcome analyses that this LX system is facilitating the conducting of continuous assessments, providing regular feedback to students and ensuring regular improvement of faculty by offering quality interactions with students. In addition, this reduces manual work for teachers and facilitates instant results while eliminating the need for manual evaluation, which in turn gives teachers more time to focus on quality teaching task. This concept is in line with several initiatives undertaken by the Government of India to close skill gap between the academics and industry requirements.

TCS iON Learning Exchange Solution which covers the following activities.

- Course Design(Course Summary, Syllabus, Course Content, Course attendance, Grades and reports)
- Sharing and uploading Assignments, Homework, Quiz and e-contents
- Time table, Scheduling Classes/Lab/Practical
- Sharing of Academic Issues
- Announcements and Digital Notice Board

LIBRARY

Books	66,256
e-books (INFLIBNET & EBSCO Academic Collection)	1,35,000 +1,38,417 (2,73,417)
e-journals (INFLIBNET)	6,000
Newspapers	22
Periodicals(Journals & Magazines)	108
CDs and Video	3,350

- **7316 books are added in the library in last five years.** The library continuously renews the subscription for periodicals (Journals & Magazines) and newspapers.
- In order to keep pace with changing times and technologies, the college library has subscribed **1,38,417 e-books from EBSCO**. It has opened a new vista for the modern user who is more comfortable with e-learning methods.
- Separate Centralized Research Library is created in the digital library for the staff where they can access e-resources subscribed as well as **open access, statistical databases, SPSS, Prowess and other software at one place.**
- The library is **fully automated with "TCSiON" software** which is Flexible to run on any operating system, Interactive, screen-oriented and menu driven user interface, User-defined security levels, Optional web-based architecture, Books can be searched in OPAC through Author, Title and Publisher.
- **Installation of JAWS Screen reading software** to provide support to differently-abled users has become a reality. As a result, the college digital library has become a

conducive place to study at for all such students as cannot make a proper use of an ordinary library.

- **Reader's Club** is established to aware users about latest book editions, reading material and e-content in the library to improve reading habits.
- Regular Training programmes and workshop are conducted for the awareness and proper utilization of electronic as well as library resources.
- **Online registration of users to e-resources** subscribed by college and the login and passwords are sent to users by their email id.

Strengthening of Infrastructure: The college has been receiving grants from various agencies and these have been utilized for developing infrastructure to facilitate ICT enabled teaching and learning and improved research environment. A new state of the art block has been constructed which includes a seminar hall with the seating capacity of 210, office of the Principal and the managing society, office of the main office bearers and the administrative staff.

INFRASTRUCTURAL IMPROVEMENTS

15 smart classrooms, 5 seminar halls, 21 labs, 164 computers, 8 servers, 2 UPS (above 10 KVA), 95 Mbps of lease line, 13 wi-fi access points have been added to the already existing infrastructure.

Student support mechanism:

The college has strengthened the PLACEMENTCELL. Soft skill workshops and pre placement training is conducted for final year students. Well reputed companies visit our college for selecting the students.

Year	Number of companies	Number of students who participated	Number of students shortlisted/Selected
2014-15	24	844	152
2013-14	17	742	167
2012-13	15	677	171
2011-12	13	985	164

Companies visiting the college from 2011-15:

S.No.	Name of the company	S.No.	Name of the company
1	IBM	24	Corporation Bank
2	Earnst & Young	25	CSC India
3	Dell	26	I Gate
4	South Indian Bank	27	EClerx
5	Infosys Technologies	28	Jaro education
6	Google	29	FINVASIA
7	KPMG	30	Bharti Airtel
8	3M advertisers	31	Hindustan Levers
9	WIPRO	32	Flextronics
10	Ind-Swift Labs	33	Godrej & Boycee
11	Jubilant Chemisis	34	Trident
12	Panacea Biotech	35	PIBM Pune
13	Z S Associate Ltd.	36	Yuvshala
14	Protiviti	37	Sap Lab Pvt Ltd

15	Tiger wealth Management	38	Decathlon Sports India
16	Karvy Consultant	39	HDFC Sales
17	Trustline	40	Federal Bank
18	Catholic Syrian Bank	41	Lowe Lintas
19	HCL Technologies	42	India Bulls
20	Janus Packaging	43	Royal Bank of Scotland
21	Infosys BPO	44	MATRIX Cellular services
22	Ranbaxy	45	Bank of America
23	WIPRO Technologies	46	Ultrarich.Com

LIBERAL SCHOLARSHIPS: The college has raised the amount of scholarships for needy and meritorious students. The amount has been raised to Rs 25, 00,000/-

MANASUDAY: STRESS MANAGEMENT CENTER

Manasuday, the stress management centre on the campus, is a unique feature of the institution. This initiative is with the sole objective of taking care of the stress levels of individuals, including teachers and students, in the competitive contemporary time. The aim of the centre is to help students deal with their everyday anxiety and stress with the help of the counsellors from the Psychology Department of the college.

The centre offers services like one-to-one counselling, self-instructional and motivational material for individuals feeling inconsequential distress and social stimulation techniques by training in a group sitting. This comprehensive approach imparts greater assurance that everybody will receive the required assistance for coping with stress.

Special programmes/sessions designed by the experts from the field of psychology are used to hold counselling and meditation sessions for the benefit of the overall health of the individuals. The centre provides individual stress management assessments and perceptions followed by exploration and practice in various techniques and sustainable approach. The emphasis of this centre is on providing a number of approaches for the control of damaging spells of anxiety. Till now more than 240 students have visited the centre for counseling and meditation.

PART-TIME JOBS FOR STUDENTS ON CAMPUS:

The college has adopted the practice of providing a platform to its students by offering them in-house part-time jobs during their study tenure in the college. This serves a dual purpose of training the students and financially supporting them as well. Moreover, this practice helps to inculcate in them a sense of commitment and responsibility while carrying out their assigned tasks. Though college is taking initiative in helping needy students by offering them liberal waivers and scholarships, it was observed that some students could not pursue education only with this money. Hence, in some cases, due to extreme adverse financial condition of the student, a decision was made to offer students jobs on campus on part-time basis.

IMPROVED SPORTS FACILITIES

A new sports ground has been constructed with an amount of Rs. 50 lacs. Our sports persons have brought laurels by bagging **322 gold, 271 Silver, and 293 bronze** in the last four years.

CULTURAL ACTIVITIES:

The college vouches for the overall development of the students and makes every effort to encourage students organize and participate in almost all the cultural activities. Our college has been winning the overall trophy at P.U. Youth **festival for the last two years.**

Wi-Fi Enabled Campus:The entire campus is Wi-Fi enabled and the students also have a separate digital library facility for their project and research work.

OUTREACH PROGRAMS:

New batches of women from marginalized sections of society have been getting training in stitching, tailoring and beauty culture for the last five years at Kaushliya Devi Charitable institution.

SPIRIT INDIA It is a student volunteer group of GGDSD College under the aegis of the NGO “AAVAHAN” which plans various outreach programmes and events social issues such as women empowerment, literacy drive, fighting corruption and alcoholism etc.

IMPROVED MONITORING MECHANISM

IQAC:

The IQAC is a facilitative and participative organ of the institution that works towards realizing the goals of quality enhancement and sustenance. It has been actively working towards developing a system that helps improve the overall performance of the institution by removing the deficiencies and enhancing the quality. . Post accreditation, the cell prepared the Annual Quality Assurance Report(AQAR) every year and is monitoring channelizing the efforts and measures of the institution towards academic and holistic development. The IQAC also conducts academic audit and green audit of the college. The Academic calendar is prepared by IQAC following the Panjab University instructions which clearly indicates the number of teaching/ working days available in an academic session. Based on this, every teacher is assessed for his/her academic performance in the form of academic compliance as stated by UGC regulations, 2009. Regular departmental reports are submitted with the IQAC and the Principal holds meetings with individual departments and with individual faculty, if needed.A well developed mechanism for obtaining student feedback on teaching has been developed and deployed by the IQAC. The feedback is analysed and the Principal discusses it with the faculty on one to one basis.

The attendance and the results of the students are online and both the students and parents have access to it.

The institution is well aware of its responsibilities towards environment and has introduced some solid steps towards it. The college has switched to energy conservation measures by using LED and energy saving Air conditioning. Total automation has led to lesser usage of papers. The college has water-harvesting plant on the campus to utilize the water for plants and trees.

Certificate of Compliance**GOSWAMI GANESH DUTTA SANATAN DHARMA COLLEGE**

A MULTI FACULTY POST GRADUATE CO-EDUCATIONAL INSTITUTION

A College with Potential for Excellence - U.G.C.

Selected under 'Star College Scheme' - D.B.T.

Accredited 'A' Grade - NAAC, Bangalore

Selected under 'FIST Programme' - D.S.T.

SECTOR 32-C, CHANDIGARH -160 030

PH.: 0172-4912400, 2600090, FAX : 0172-2661077

E-mail : info@ggdsd.ac.in Visit us at : www.ggdsd.ac.in

Certificate of Compliance

(Affiliated/Constituent/Autonomous Colleges and Recognized Institutions)

This is to certify that Goswami Ganesh Dutta Sanatan Dharma College, Chandigarh fulfils all norms.

1. Stipulated by the affiliating University and/or
2. Regulatory Council/Body (such as UGC) and
3. The affiliation and recognition (if applicable) is valid as on date+.

It is noted that NAAC's accreditation, if granted, shall stand cancelled automatically, once the institution loses its University affiliation or Recognition by the Regulatory council, as the case may be. In case the undertaking submitted by the institution is found to be false then the accreditation given by NAAC is liable to be withdrawn. It is also agreeable that the undertaking given to NAAC will be displayed on the college website.



Dr. Rishabh K Sharma
Principal
GGDSD College
Sector 32-C, Chandigarh

Place: Chandigarh

Date: 15.03.2016

Punjab University, Chandigarh						
Name and address of the college	Status	Year of Estb.	Nature of Affiliation	Teaching Upto	Govt or Non Govt	Aided or Unaided
G.G.N. Khalsa College Ludhiana District Ludhiana Punjab	2(f) and 12(B)	1953	Permanent	Bachelor's	Non Government	
G.H.G. Harparkaash College of Education for Women Sidhwan Khurd District Ludhiana Punjab	2(f) and 12(B)	1955	Permanent	Master's	Non Government	
G.H.G. Khalsa College Gurusar Sadhar District Ludhiana Punjab	2(f) and 12(B)	1948	Permanent	Bachelor's	Non Government	
G.H.G. Khalsa College of Education Gurusur Sadhar District Ludhiana Punjab	2(f) and 12(B)	1955	Permanent	Bachelor's	Non Government	
G.K.S.M. Govt.College Tanda Urmur District Hoshiarpur Punjab	2(f) and 12(B)	1951	Permanent	Master's	Government	
Giani Gurbaksh Singh D.A.V. Centenary College Jalalabad District Firozpur Punjab	2(f) and 12(B)	1986	Permanent	Bachelor's	Non Government	
Gobindgarh Public College Alour, Post Box No. 31, Khanna - 141 401, Distt. Ludhiana Punjab	2(f) and 12(B)	2003	Permanent	Bachelor's	Non Government	Unaided
Gopichand Arya Mahila College Abohar District Firozpur Punjab	2(f) and 12(B)	1972	Permanent	Master's	Non Government	
Goswami Ganesh Dutta S.D. College Sector-32 Chandigarh Chnadigarh Chandigarh	2(f) and 12(B)	1973	Permanent	Master's	Non Government	
Government Arts & Science College Talwara District Hoshiarpur Punjab	2(f) and 12(B)	1986	Permanent	Bachelor's	Government	

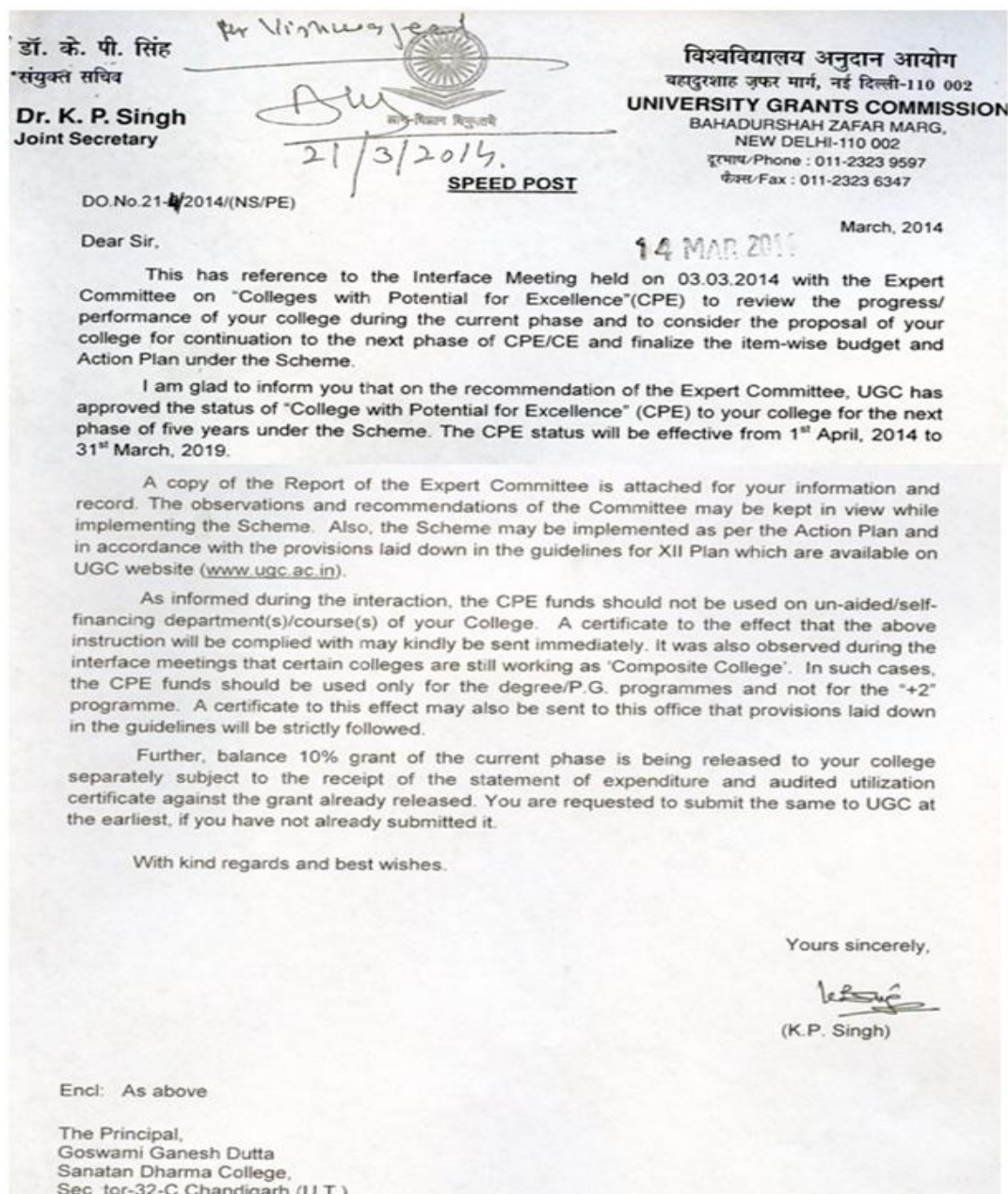
As on 29.02.2016

CPP-I/C

Page 145 of 128

Annexure II

Letter from UGC regarding award of CPE



Annexure-III

Latest Grant Certificate

B. Armit Mohindran
Principal
15/12/15



ANNEXURE I

F.D. Diary No. 6086

Date: 01/07/2015

UNIVERSITY GRANTS COMMISSION
35, FEROS SHAH ROAD
NEW DELHI - 110 001

7 DEC 2015

No.F.1-377/2013(HRE)

December, 2015

The Under Secretary (FD-III)
University Grants Commission
Bahadur Shah Zafar Marg
New Delhi-110002

Subject : Approval and sanction of Grants-in-aid to Goswami Ganesh Dutta S.D. College, Sector-32 Chandigarh, Chandigarh-160030 for introduction of Foundation Course (2-3 Months) under the scheme of Human Rights Education (Dept. of Sociology) under plan.

Sir,

I am directed to convey the approval of the University Grants Commission for allocation of grant of Rs.2,50,000/- (Rs. Two lakh and fifty thousand only) as per details given below for introduction of Foundation Course under the scheme of Human Rights Education and also to sanction Rs.2,35,000/- (Rupees Two lakh and thirty five thousand only) to Principal, Goswami Ganesh Dutta S.D. College, Sector-32 Chandigarh, Chandigarh-160030 (Dept. of Sociology) during XII Plan to be incurred during 2015-16 as per details given below:

Purpose	Grant Approved (Rs.)	Head of Account	Grant being released (Rs.)	Total Grant paid (Rs.)
Books and Journals	1,00,000/- (One time grant)	3.A (64) 31 3.(B) 31 3.(C) 31	1,00,000/-	1,00,000/-
Developing Advocacy skills (Moot Court / Mock Trial wherever applicable)	75,000/- (One time grant)		75,000/-	75,000/-
Guest/Visiting Faculty	75,000/- (p.a.) (For five years)		60,000/- (80%)	60,000/-
Total	2,50,000/-		2,35,000/-	2,35,000/-

The Component wise break-up is as under:-

S.No.	Category	Head of Account	Amount
1.	General (76%)	3.A (64) 31	1,78,600/-
2.	SC (16%)	3.(B) 31	37,600/-
3.	ST (8%)	3.(C) 31	18,800/-
	Total		2,35,000/-

1. The sanctioned amount to be debitible under Human Rights Education to Head of account 3.A (64) 31 3.(B) 31 3.(C) 31 and is valid for payment during the financial year 2015-2016 only.

Annexure-IV

Master Plan of the Institution

