Self Study Report (SSR)

Submitted to
National Assessment and Accreditation Council, Bangalore

D. Y. Patil College of Engineering, Akurdi, Pune

Dr. D. Y. Patil Educational Complex,
Sector No: 29, Nigdi Pradhikaran, Akurdi,
Pune, Maharashtra, 411044

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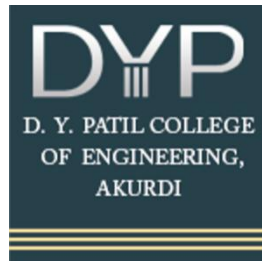**Website: www.dypcoeakurdi.ac.in**
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Abbrevations

|	
AB	Advisory Board
ACM	Association For Computing Machinery
AICTE	All India Council For Technical Education
AISSMS	All India Shree Shivaji Memorial Society
AMC	Annual Maintenance Contract
ANDROID UI	Android User Interface
APS	Appraisal Performance Score
ARAI	Automotive Research Association Of India
ARDE	Armament Research & Development Establishment
ASCE	The American Society Of Civil Engineers
ASME	The American Society Of Mechanical Engineers
ATV	All Terrain Vehicle
BHMS	Bachelors Degree In Homeopathy Medicine And Surgery
BARC	Bhabha Atomic Research Centre
BCUD	Board Of College & University Development
BE	Final Year Engineering
BEE	Bureau Of Energy Efficiency
BEL	Bharat Electricals Limited
BOS	Board Of Studies
BSNL	Bharat Sanchar Nigam Limited
CAE	Computer Aided Engineering
CAP	Central Admission Process
CCTV	Closed Circuit Television
CD	Compact Disc
C-DAC	Centre For Development Of Advanced Computing
CEO	Chief Examination Officer
CFD	Computational Fluid Dynamics
CFO	Chief Financial Officer
CL	Casual Leave
CME	College Of Military Engineering
CMS	Course Management System
CO	Course Outcome
COEP	College Of Engineering Pune
COMP	Computer Department
CR	Class Representative
CSI	Computer Society Of India
CTS	Cognizant
CUDA	Compute Unified Device Architecture
CWPRS	Central Water & Power Research Station
DA	Dearness Allowance
DB	Database
DRDO	Defence Research And Development Organisation

DTE	Directorate Of Technical Education
DYPCOE	D.Y.Patil College Of Engineering
ECU	Electronic Control Unit
EDC	Entrepreneur Development Cell
EETP	Employability Enhancement Training Program
EL	Earned Leave
ELENO	Engineering Learning Center
ENGG	Engineering
ENTC	Electronics and Telecommunication Department
ERP	Enterprise Resource Planning
EWS	Economically Weaker Section
FDP	Faculty Development Program
FE	First Year
FSAE	Society Of Automotive Engineers
GATE	Graduate Aptitude Test In Engineering
GD	Group Discussion
GET	Graduate Employment And Training
GPU	Graphics Processing Unit
GR	Generic Requirements
GRE	Graduate Record Examinations
HOD	Head Of Department
HR	Human Resource
HRD	Human Resources & Development
HTML	Hyper Text Markup Language
IBCC	India's Biggest Civil Championship
ICC	Internal Complaint Committee
ICT	Information And Communications Technology
IE	Institution Of Engineers
IEEE	Institute Of Electrical And Electronics Engineers
IEF	Image Exchange Format
IEF	Industrial Environmental Forum
IFSA	International Financial Service Association
IIT	Indian Institute Of Technology
IOT	Internet Of Things
IQAC	Internal Quality Assurance Cell
ISA	International Society Of Automation
ISTE	Indian Society For Technical Education
IT	Information Technology Department
IUCEE	Indo Universal Collaboration For Engineering Education
JLPT	Japanese Language Proficiency Test
JS	Java Script
JSP	Java Server Pages

KAS	Kollmorgen Automation Suite
KVA	Kilo Volt Ampere
LAN	Local Area Network
LCD	Liquid Crystal Display
LCD	Line Printer Deamon
LIC	Local Inspection Committee
LMC	Local Management Committee
LPD	Litre Per Day
LR	Ladies Representative
MAGT	Management
MATLAB	Matrix Laboratory
Mech	Mechanical Department
MBPS	Mega Bits Per Second
MCQ	Multiple Choice Question
MCQ'S	Multiple Choice Questions
ME	Masters Of Engineering
MHRD	Ministry Of Human Resource Development
MIDC	Maharashtra Industrial Development Corporation
MIS	Management Information System
ML	Medical Leave
MOOC	Massive Open Online Course
MOODLE	Modular Object-Oriented Dynamic Learning Environment
MOU	Memorandum Of Understandings
MPSC	Maharashtra Public Service Commission
MQC	Metrology And Quality Control
MS	Master Of Science
MSP	Microsoft Project
MT	Meters
NAAC	National Assessment And Accreditation Council
NATRAX	National Automotive Test Tracks
NATRIP	National Automotive Testing And R&D Infrastructure Project
NBA	National Board Of Accreditation
NCC	National Cadet Corps
NDL	National Digital Library
NDL	National Digital Library
NGO	Non Governmental Organization
NIRF	National Institutional Ranking Framework
NIT	National Institute Of Technology
NPTEL	National Program On Technology Enhanced Learning
NSS	National Service Scheme
NT	Nomadic Tribes
NTPC	National Thermal Power Corporation Limited

OBC	Other Backward Classes
OBE	Outcome Based Education
ONGC	Oil And Natural Gas Corporation
OOP	Object Oriented Programming
OOPS	Object Oriented Programming Specification
OR	Oral
OS	Office Staff
PC	Personal Computer
PCB	Printed Circuit Board
PCMC	Pimpri Chinchwad Municipal Corporation
PCS	Personal Computers
PEO	Program Educational Objective
PEOS	Programme Educational Outcomes
PG	Post Graduate
PI	Personal Interview
PLC	Programmable Logic Controller
PLM	Product Life Cycle Management
PMPML	Pune Mahanagar Parivan Mahamandal Ltd.
PMS	Products Manufacturer And Supplier
PPT'S	Power Point
PR	Practical
PROD	Production Department
PSO	Program Specific Outcome
PTA	Parent Teacher Association
QA	Quality And Assurance
R&D	Research & Development
RMC	Resource Management Committee
RMC	Ready Mix Concrete
RTO	Regional Transport Office
RTOS	Real Time Operating System
SAE	Society Of Automotive Engineers
SBC	Special Backward Class
SC	Scheduled Caste
SCADA	Supervisory Control And Data Acquisition
SE	Second Year Engineering
SEACO	Shriniwas Engineering Auto Components Pvt. Ltd
SMS	Short Message Service
SPPU	Savitribai Phule Pune University
SQ	Square
SSPU	Savitribai Phule Pune University
ST	Scheduled Tribe
STTP	Short Term Training Programme

SUPRA	Super Racing	
SWH	Solar Water Heater	
SWO	Student Welfare Officer	
T&P	Training & Placement	
TCS	Tata Consultancy Services	
TE	Third Year Engineering	
TEQIP	Technical Education Quality Improvement Programme	
TG	Teacher Guardian	
TPO	Training & Placement Officer	
TQM	Total Quality Management	
TSSC	Telecom Sector Skill Council	
TV	Television	
UEFI	Unified Extensible Firmware Interface	
UG	Under Graduate	
UGC	University Grants Commission	
UPS	Uninterruptible Power Source	
UPSC	Union Public Service Commission	
VJ	Vimukta Jati	
VLSI	Very Large Scale Integration	

Cover Letter from Head of the Institute
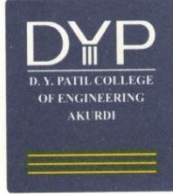
D. Y. PATIL COLLEGE OF ENGINEERING

Approved by All India Council of Technical Education, New Delhi
Affiliated to University of Pune, Identification No. PU/PN/EnGG/055 (1984)
Sector No. 29, Nigdi, Pradhikaran, Akurdi, Pune - 411 044. Tel. : (020) 27653054 / 58, Fax : (020) 27653057
Website : http://dypcoeakurdi.ac.in   E-mail : principal@dypcoe-akurdi.org
"30th Year of Excellence in Engineering Education"
Padmashree Dr. D. Y. Patil M. A., L.L.B., Ph. D.
Founder President

Dr. Sanjay D. Patil
President

Shri Satej D. Patil
(M.L.C.), Ex State Home Minister, Maharashtra

Ref. No. : DYPCE /Est/8861   Date : 23/3/2017
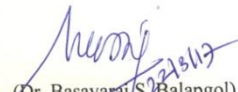
To,

The advisor,

National Assessment and Accreditation Council,

Post Box No. 1075, Opposite NLSIU,

Nagabhavi, Banglore-5600072.

Subject: Submission of Self study Report (SSR) of D. Y. Patil College of Engineering, Akurdi,

Pune.

Respected Sir,

We are pleased to submit the Self Study Report of our institute, D. Y. Patil College of
Engineering, Akurdi, Pune-44. As per the guidelines of National Assessment and Accreditation
Council (NAAC), SSR is also uploaded on the institute website **www. dypcoeakurdi.ac.in.**

This is for your kind information and necessary action please.

Thanking you.

(Dr. Basavaraj S. Balapgol)
Principal

Encl: As above

NAAC Steering Committee

S.No	Name of the faculty	Designation	Designation for steering committee
1	Dr. Basavaraj S. Balapgol	Principal	Chairman
2	Dr. Mrs. P. Malathi	Vice Principal	Vice Chairman
3	Dr. Mrs. N. A. Deshpande	Associate Professor & HoD, Computer Engineering	Coordinator
4	Dr. D.G.Khairnar	Professor & HoD, Electronics and Telecommunication Engineering	Member
5	Dr. D. R. Panchagade	Associate Professor & HoD, Mechanical Engineering	Member
8	Dr.V.A.Kulkarni	Associate Professor & HoD, Production Engineering	Member
9	Mrs. S.V. Pataskar	Assistant Professor & HoD, Civil Engineering	Member
10	Mr. N.V.Mane	Assistant Professor & HoD, Instrumentation and Control Engineering	Member
11	Mr. A.J.Patankar	Assistant Professor & HoD, Information Technology	Member
12	Dr.S.K.Babar	Associate Professor in Physics & Dean FE	Member
13	Mr. D.A.Bhagwat	Registrar	Member

1. PREFACE

Pune city is aptly known as the Oxford of the East as it is a renowned well established seat of learning for the past three centuries. Appreciated and recognized as a front runner in the education scenario, D Y Patil College of Engineering, Akurdi, Pune with an aim to impart quality education, strongly believes that Engineering education is a stepping stone to progress and success. With a long standing commitment towards quality teaching and learning, the college has nurtured values that go into the making of successful careers.

Reiterating excellence in every venture explored, the college stands tall with its undeterred commitment to deliver quality education. Equipped with state of the art infrastructure, college encourages individuals to think, question, explore and apply their well-honed minds to scale the newer heights of success in professional outcomes. The college believes in imparting education that will build world citizens of tomorrow. College enjoys academic alliances with its stakeholders to help students to enhance their employability.

With the vision and guidance of Hon. Dr. D. Y. Patil (Founder President), Hon. Dr. Sanjay D. Patil (President) and Hon. Shri. Satej D. Patil (Vice President and Chairman) and Col. S. K. Joshi (Campus Director), Dr. D. Y. Patil Prathishthan's, D Y Patil College of Engineering, Akurdi, Pune, is progressing in all spectrums of Engineering education.

D. Y. Patil College of Engineering, Akurdi was established in 1984 in Pimpri and later shifted to Akurdi Campus in 2001, which is in the vicinity of Pimpri-Chinchwad Industrial Area, one of the biggest industrial belts in Asia.

The college provides Under Graduate Programs in Civil Engineering, Computer Engineering, Electronics & Telecommunication Engineering, Information & Technology Engineering , Instrumentation & Control Engineering, Mechanical Engineering and Production Engineering. Post Graduation Specializations in Computer Engineering, VLSI & Embedded systems, Communication Networks, Heat Power , Design Engineering, Manufacturing & Automation, Construction & Management and Environmental Engineering . The college also offers PhD Program in Civil and Electronics & Telecommunications Engineering.

The college spreads over 10 acres of land with seven Engineering disciplines. The Institute is approved by AICTE, New Delhi, Govt of Maharashtra and is affiliated to the Savitribai Phule Pune University, Pune (formerly known as University of Pune). The college has excellent infrastructure with well equipped laboratories. Well qualified, motivated and dedicated faculty members are serving the Institute. Students are encouraged to actively participate in National and International level co-curricular and extra-curricular activities. The Institute has well planned boys and girls hostel with state of the art amenities and ultra-modern facilities.

The college gives thrust on Personality Development, soft skills and communication skills through well supported Hi-Tech Language Labs. Well laid-out sports complex, students plazas with cafeteria facilities add value to professional development of students.

The college is having good reach and location advantage with just 2 km away from Pune-Mumbai Express highway with close vicinity to Akurdi Railway station by well connected Local Transport. College provides Bus for industrial/field visits as and when required.

The college provides conducive environment for overall professional development of students through co-curricular activities like Industrial visits, Poster presentation competitions, Guest lectures, Quiz competition, Debate competition, Model making, Industrial induction programs, Training of communication skills and extra-curricular activities like National Science Day, Fun and Cultural day, Sports day,International Women's day etc every year.

The alumnus of college are well placed in society covering wide spectrum in professional world of industry, research, entrepreneurship, business, society and service sector in the national and international level. The college has mechanism to share portfolios of their alumni's to students for motivation and guide for professional growth.

Faculties are encouraged to follow co-learning with students through use of ICT, Blended Learning and MOOCs, active Participation in Project Work, club formations like robotics, astronomy, internship, paper publication, employability enhancement activities, professional body activities, co-curricular and extra-curricular activities etc.

Initiatives like TCS HIKARI Programme, Entrepreneurs International Club Summit, Career Guidance Sessions, Guest Lectures from Alumni and Industry Experts, Training for Aptitude Test Demeanor and comport, MoU with Industries shows the commitment of college to produce industry ready graduates.

The college has won various awards in National Go-Kart Championship, CONSTRO, Kirloskar Green River Competition, National SAE BAJA Championship; Participation in 3D PLM Aakruti competition, Firodiya Karandak, etc. It depicts commitment for professional development, students in particular.

The college is having MoU with College of Engineering, Pune, Engineering Cluster Pune, Infosys Campus Connect, Zensar Technologies, PMS Robotics Pune, Siddhakala Industries, Instron Educamp, Inditech Udyog, Maven Systems, Engineering Design Software, TSSC, Bitmatrix, Pune Techtrol, Constrologix, etc to facilitate stakeholder's participation in academic and overall technical development of faculty and students.

The college was twice accredited by NBA for UG programs and is now overwhelmed to submit application to NAAC for accreditation to strengthen our efforts for quest of quality in totality.

Principal

D Y Patil College of Engineering, Akurdi, Pune

2. Executive Summary

Criterion I: Curricular Aspects

Curricular Aspects are given paramount importance and concentrate it to form basis of technical growth of students. Institute follows the curriculum prescribed by the university which is revised after every five years.

Institute formulates strategies for implementing the curriculum which is reflected in academic calendar. Before the commencement of the academic session of each semester, Principal, Vice - Principal and HODs give instructions and guide lines in regards – Academic calendar, Time Table, Course files, Industrial visits, expert's lectures and other curricular and co-curricular activities.

All faculty members are delivering the content of syllabus as per prescribed contact hours in curriculum through course files. Faculty members formulate teaching strategies and selection of teaching methodology for effective learning during classroom contact hours. Periodic review is taken to cope up with pace of curriculum completion, with effectiveness of curriculum delivery. Progressive assessment method is followed during practicals for continual learning. The cloud based ICT is provided to students for effective practice of Multiple Choice Questions for improvement in technical and professional growth of students. Feedback from the students, alumni, faculty and industry experts are taken to identify curriculum gaps. The feedback, comments and suggestions are conveyed to the university during reformation of the curriculum and also strategized in Institute for overcoming by various measures like industrial visits, guest lectures, value added courses, participation in workshops/conferences/exhibitions, learning beyond syllabus etc. Placement questions are shared by Training and Placement office to faculties to enrich curriculum delivery content during classroom teaching.

Academic flexibility is given to advanced learners and slow learners to cater their own pace of learning. Financial support is provided to these students for participating in the events of national level importance. The Institute has Enterprise Resource Planning (ERP) tool which is used for effective deployment of curriculum. Once the classes are commenced, the faculty executes the teaching plan and maintains the record.

In order to have better suitability of passing graduates as per the present day requirement of industry, various skill development and enrichment programs, certificate courses are offered by various departments of the Institution.

Awareness of Gender Equality, Climate Change, Environmental Education, Human Rights is created through audit courses included by university in curriculum. This is further effected by organizing various lectures, training sessions of renowned persons and technical events in the Institute.

Criterion II: Teaching-Learning and Evaluation

Institute acknowledges the diversified background and different pace of learning of students in contact hours and faculties are thereby making inclusive efforts to accommodate and promote effective teaching-learning methods. Different teaching tools like PPTs, Field Visits, Blooms Level of Learning (Cognitive, Affective and Psychomotor Domain) are adopted to facilitate effectiveness during contact hours. Faculties use Blended Learning, Flipped Classroom, and social media to reach students to cater different needs of curriculum. Students are promoted to ask questions in classroom and personal interaction outside classrooms. Faculties adopt co-learning for seminar and projects to take care of growing dynamism of employability issues. Teacher quality is assessed by Self Appraisal Method in which performance is assessed considering delivery in all facets of academics and academic-administrative issues. Teaching for employability is adopted in college to promote employable students.

Result analysis is carried out and compared with other affiliated Institutes for acknowledging and benchmarking the requisite academic standards. Training and Placement department provides their analysis after every campus recruitment process about students attributes for further enhancement in teaching-learning process. The collected data is analyzed by faculties in consultation with HODs/Vice Principal/Principal to adopt add on teaching-learning strategies for further enhancement in results, placements and allied outcomes.

Feedback from students is implemented to take care of 'students say' during contact hours by third party internally and externally, for adopting effective changes in style of delivery, pace of teaching, support through learning material, effectiveness of completion of curriculum etc.

NPTEL videos, interaction with Tier-I faculties/Senior faculties in Board of Studies of universities is promoted to identify and strategize the gaps in delivery of curriculum. 'A well prepared teacher', concept in Teaching-Learning process is encouraged by Academic Audit under the guidance of Vice Principal and Principal. Faculties update their course files periodically by mapping and attainment of course outcomes every semester.

Learning outcomes of students are identified and enhanced with respect to employability of students through stakeholder's assessment. The collaborative learning methods are gauged through comparison of placement outcomes even after student's graduation by monitoring alumni portfolio progress, and accommodating the changes thereby in teaching-learning process.

Faculties are encouraged to update their knowledge, skills and delivery through participation in various stakeholders' activities and readiness to inculcate dynamism of employability to cope up with futuristic learning needs.

Criterion III: Research, Consultancy and Extension

Institute provides various facilities to faculty and students for participating in various research activities and for healthy growth of research environment in the Institute. Institute has aptly adopted the policy of research based teaching-learning to cope up with originality needs to be inculcated in students. Plagiarism checks are adopted either manually or through online software and students are made aware of the allied issues of patents, copy right laws etc.

The faculties are entrusted to adopt co-learning method for promotion of publication in reputed national and international journals.
Institute has recognized research centers in two department's i.e. Civil Engineering and Electronics and Telecommunication Engineering which are affiliated to SPPU.

The Institution has research committees to monitor and address the issues of research. The research committee entitled as 'Institutional Research Committee' (IRC) is formed to monitor the issues of research and development. The research committee promotes research work, implements the research policies as prescribed by SPPU and develops collaborations with various organizations. The composition of the Research committee consists of professors, in-charge faculty members and industry experts. The research committee regularly and periodically monitors, motivates and ensures that the research activities are implemented in time.

Various workshops, conferences and seminars are been conducted to attract researchers to visit the campus. Industry personnel are also invited to enhance the interaction. Faculty members pursuing PG, Ph. D and research projects are given appropriate leave to complete research work, also Institute provides duty leave to faculty members for participating and presenting papers at national and international seminars, conferences and for attending workshops. To support research environment amongst the faculty and the students, library resources are also made available during extended college hours. A separate financial provision is made by the Institute for students' projects based on requisition.

To cater the growing needs of imbibing cutting edge technologies, industrial in plant training, industrial projects, and guidance by industry experts in seminar/project work is promoted and strengthened. Faculty members and students are made aware of publications in standard referred indexed journal and citation in Google Scholar, Scopus etc.

Institute has made efforts to form MoU with stakeholders to cater growing employability efforts. Appropriate testing facilities are generated that provides necessary consultation to industry operations. Faculties are encouraged to take up industry/field based problems for research proposals for receiving research grants from appropriate agencies like BCUD. Faculties actively involve students for resulted research and development work, by such research grants.

Such efforts by faculties and students are well acknowledged in self appraisal, career growths of faculties etc.

Criterion IV: Infrastructure and Learning Resources

The Institute acknowledges the need of providing conducive environment for effective learning outcomes of its budding Engineers. Infrastructural facilities and learning resources plays vital part in professional and personal growth of students.

The Institute follows norms set by AICTE and SPPU for creating and enhancing the infrastructure. The requirements related to the enhancement of infrastructure are collected and corrected at various levels. Well maintained classrooms for each department with PC, LCD projector, Audio video systems, white/black/green boards etc. are provided by the Institute. Central library is equipped with collection of reference books E-journals and digital study material (NPTEL Videos) The Institute has provided faculty and students with the facility of accessing library, KOHA through the assigned username and password anywhere, anytime from the college premises The ambience of the laboratories provides a learning environment amongst the students and equipped with state of the art computing facilities. The Institute has a girls' hostel and a boys' hostel. Girls' hostel is located in front of the college campus, in an area of 6643 square meter. The total available rooms in the girl hostel are 90; with an overall capacity of 280.

Institute is providing internet through firewall portals, wi-fi routers, to all faculty and students to promote secured internet usage for effective academic learning environment. Boys' hostel is located in an area of 1300 square meter. Total number of rooms in this hostel is 46; with an overall capacity of 125. Gym and yoga center is available with trainer. Both the hostels are equipped with Computers and Wi Fi connectivity, with a speed of 48 Mbps. Medical Room and a doctor is available daily in the hostel premises. Institute ensures supply of clean drinking water to students by installing water cooler and purifier in the hostel as well as in the campus.

Apart from technical infrastructure, other physical facilities like ample parking space, clean and adequate potable water, green campus, waste water management, rain water harvesting, adequate toilets, availability of all season concrete roads, security personals etc. depicts Institutions commitment to provide conducive environments for pleasant campus stay.

Technical, Physical and allied infrastructural facilities like laboratories and equipments is maintained by faculties through various measures like Annual Maintenance Contract (AMC), Periodic Calibration of equipments through Purchase and maintenance cell.

Criterion V: Student Support and Progression

To make prospective students aware about eligibility criteria, academics, technical expertise, placement opportunities, infrastructural facilities, employability and growth opportunities, Institute publishes prospectus

annually. The campus tour is digitally available on website along with students' testimonials and also e-brochure can be downloaded. To enhance employability skills (Team Work, Presentation, Convincing, and Defending Ideas etc.) and inculcate originality, students are encouraged to participate in various competitions at state, national and international level. Faculty members encourage the students to participate in competitions with extended use of all infrastructural facilities including laboratories, library etc.

'Every student in class is unique and learns at different pace', is the philosophy followed at DY Patil College of Engineering, Akurdi, Pune. Apart from various academic resources like professional counseling, MOOCs, Virtual Lab (in support with COEP), NPTEL from IITs, measures are taken up by faculty to strengthen slow learners.

Norms regarding financial assistance from State Government, Central Government and other regulatory bodies are followed. Apart from government scholarships needy students are given flexibility to pay fees in installments. The meritorious students, who fetch top rank in university, are awarded full reimbursement of their fees. Institute acknowledges the applicability of Engineering courses in wide range of society including extra-curricular and co-curricular aspects for overall development of students. 'Sound Mind in Sound Body'. Institute promotes sports activities after college working hours and reserves 2 days in second semester for all students to participate in various events under Satej Karandak. The sports ground and sports material is provided to the students.

The T & P faculty coordinator gives feedback to all junior students regarding placement procedures of every campus recruitment apart from providing necessary know-how before the placement. This ensures implementation of teaching for examination and employability method adopted by Institute. The Institute student grievances redressal cell helps the students to resolve issues that will affect the students' performance in general. Cell comprises of Teacher-Guardian, HoDs and Student Council Coordinator, Vice Principal and Principal. The cell addresses administrative issues, facilities rendered to students, diversified opinions of students etc. The Internal complaints committee(ICC) is formed to take necessary steps to avoid incidents pertaining to sexual harassment and also to resolve the issues as per "Vishakha Guidelines". Anti-ragging committee is constituted as per AICTE guidelines.

Range of Indoor and Outdoor sports facilities are available in the Institute. Students are encouraged to participate in various sports, games, cultural and extracurricular activities. Students actively participate in academic, placement and administrative activities in college. Students council, Robotics Club, EDC Cell, NSS, NCC are the main areas on which the students achievements are highlighted in college social media. College is providing a platform for due acknowledgement to achievers and to motivate other students to excel.

Criterion VI: Governance, Leadership and Management

The Institute works on vision provided by Hon. Dr. D. Y. Patil (Founder President), Hon. Dr. Sanjay D. Patil (President) and Hon. Shri. Satej D. Patil (Vice President and Chairman) to impart quality education to all in society. The vision is implemented through mission under the guidance and leadership of Hon. Shri. Satej D. Patil (Vice President and Chairman) and Col. S. K. Joshi (Campus Director), Dr. B. S. Balapgol (Principal) and Dr. Mrs. P. Malathi (Vice Principal) in normal working of Institute to formulate administrative and academic-administrative framework of Institute. This framework is further nurtured and practiced by faculties in consultation with Heads of Department. The philosophy of governance is "Decentralization" to empower internal stakeholders for academic excellence. Faculties are empowered to make decisions related to formulating lab infrastructure, selection of laboratory equipments etc. Faculties are encouraged to participate in stakeholders interaction based activities to align academic requirements.

Budgeting is carried out annually to cater the academic and administrative requirements of all teaching-learning related activities at start of the semester.The appropriate financial support is provided to co-curricular and extra-curricular activities of students under the guidance of faculty coordinators. The faculty appraisal cell is governed by Internal Quality Assurance Cell (IQAC) comprising of members from management, Principal, Vice Principal, senior faculty members, alumni, Industry expert to demonstrate academic excellence.

Criterion VII: Innovations and Best Practices

The faculty and students are sensitized for issues of environment consciousness, viz. issues of carbon-emission, pollution awareness, sustainability in technology etc through newsletters, articles in magazines, poster presentations etc. Installation of rain-water harvesting plant, sewage treatment plant, awareness to use water judiciously depicts the commitment of Institute towards these issues.

The carbon footprint measurement is demonstrated to students including activities related to environmental clearance issues from government. Ample use of sunlight, judicious use of electricity and printing papers is sensitized amongst the faculty and students for preservation of energy and reduction in carbon foot print. Innovations in teaching-learning process, academic and administrative activities are promoted and are duly acknowledged.

Quality policy of working "still better" is adopted at every facets of Institutional working for promoting continual improvement. Collaboration with College of Engineering, Pune, IIT Bombay, ARAI Pune for academic strengthening are the indicative efforts towards faculty development and commitment to impart quality in education.

3. SWOC Analysis of the Institute

STRENGTHS

- Strong Management Support for Teaching-Learning Process.

- Stakeholder's participation in teaching-learning activities.

- Students are valued and accommodative policies to adopt different pace of learning

- Cloud based ERP system.

- Class rooms are equipped with LCD Projectors and PA System enabling delivery of lectures in Affective Domain

- Hygienic, Immaculate and environment friendly campus

- Conducive environment for teaching-learning process with supportive amenities including auditorium, seating arenas, hostel accommodation, campus clinic, sports facilities, intercom facilities, cafeteria, 500 KVA genset and UPS for power backup, well ventilated and equipped laboratories, clean potable water

- Publications of faculties in national and international journals along with book publications

- Central library with good reference books, bar-code based issuing of books, extended reading room facility during examinations

- Active Training and Placement department to enhance placement and employability activities.

- Internal Quality Assurance Cell for continuous improvement of faculty through Self Appraisal System

- Digital Campus with Firewall based internet along with Wi-Fi Facility

- Professional Chapters for Students are functioning to enhance co-curricular and extra-curricular activities

- Sensitization of Energy Conservation Awareness amongst faculty and students.

- Strong Anti-ragging practices are adopted and followed.

- Financial support to arrange co-curricular and extra-curricular activities

- Faculties are encouraged to participate and/or arrange workshops/seminars/conferences etc

- MoUs with Industries to facilitate learning beyond syllabus

- Availability of Cloud based ICT for practicing MCQ questions beyond contact hours

- Ample opportunities to students to showcase their talent

- Faculties are encouraged to actively participate in fetching research grants from various stakeholders

- Adequate support to faculty to upgrade their qualification and their by achieving career growth opportunities

- Availability of Software based learning to students

- Qualified and experienced faculties

- Academic flexibility to advance learners and adequate excess support to slow learners

- Inclusive efforts in accommodating diversified students, faculties and staff to impart quality education.

- Faculties are encouraged to participate in NPTEL activities as a measure to fill up curriculum gaps

- Stakeholders interactions are frequently executed to enhance employability of students

- Co-learning of faculty and students in seminars/projects to accommodate interdisciplinary research work

- Adequate support is given to students and faculty to enhance their communication skills periodically through hi-tech English language labs and spoken tutorials

- External and Internal Feedback of Faculty teaching is used as a measure for continuous improvement in teaching-learning process.

- Adequate company specific technical/interpersonal training to students to help them appear for examination, campus placement etc.

- Unit Tests Questions are formulated as per Blooms Taxonomy Level to cope up with employability needs

- Course Outcome and Program Outcomes are practiced by faculty to make better graduates

WEAKNESS

- Heavy and squeezed curriculum in comparison with Tier-I Institutes

- Restriction in formulating choice based curriculum, open electives, industrial based subjects in curriculum

- Questions in University examinations, in general are repetitive, non-creative and not-in accordance with Lower order thinking skills of Blooms taxonomy level

- Restriction in accommodating cutting edge technologies learning, interdisciplinary research based learning with respect to market dynamics due to non-flexibility in curriculum

OPPORTUNITIES

- Admission of overseas students

- Continuous enhancement of Industry-Institute partnership

- Starting up new courses like BE Mechatronics to accommodate interdisciplinary relevance

- Publication of own college National/International Journal

- Enhancing the opportunities for Industrial In plant Training to students and faculty

- Increasing the participation of students and faculties at International Level

- Enhanced Practicing of Outcome Based Education in all facets of Engineering discipline.

CHALLENGES

- Strengthening positive thinking amongst the students.

- To improve soft skills and employability skills of students.

- Consultancy work by Faculty.

- Paperless working.

- Employability efforts for slow learners.

- Effective academic collaboration with NITs/IITs.

- Practicing IPR issues by the students and faculty members.

- Developing cutting edge technologies through projects.

- Availability of research grants from Industries for affiliated Institutes.

4. Profile of the Institution

1. Name and Address of the College:

Name	D.Y. Patil College Of Engineering, Akurdi
Address	Sector 29, Nigdi Pradhikaran,, Akurdi, Pune-411044, Maharashtra, India
City	Pune **Pin code** 411044 **State** Maharasthra
Website	www.dypcoeakurdi.ac.in

2. For Communication:

Designation	Name	Telephone With STD code	Mobile	Fax	Email
Principal	Dr.B.S. Balapgol	020 27653054/58	7757026562	020-27653057	principal@dypcoeakurdi.ac.in
Vice Principal	Dr.Mrs.P. Malathi	020 27653054/58	9823152302	020-27653057	viceprincipal@dypcoeakurdi.ac.in
Steering Committee Co-ordinator	Dr.Mrs.N. Deshpande	020 27653054/58	9527618912	020-27653057	deshpande_neeta@yahoo.com

3. Status of the Institution:
1   Affiliated College   [√]
2   Constituent College   [ ]
3   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   [√]   Civil & Mechanical

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: **19/06/1984**
b. University to which the college is affiliated/or which governs the college (If it is a constituent college): **Savitribai Phule Pune University, Pune (formerly University of Pune)**
c. Details of UGC recognition: **NIL**
d. Details of recognition /approval by 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-	Validity	Remarks
AICTE	27-28-/92-/AICTE/965E-S668	20/10/1993	1993-94	Year of Recognition
	F.No. Western/1-2809596022/2016/EOA	05/04/2016	2016-17	Latest Extension of Approval
NBA	ENTC Engg. Civil Engg, Mechanical Engg. Computer Engg.	19.07.2008 19.07.2008 19.07.2008 19.07.2008	3 Years 3 Years 3 Years 3 years	REF No. NBA/ACCR 957/2007
	Mechanical Engg. Civil Engg. Computer Engg.	12.12.2003 12.12.2003 12.12.2003	3Years 3Years 3 Years	NBA/ACCR-169/2003
	Production Engineering (S/W) Information Technology Instrumention & Control	5.8.2013 5.8.2013 5.8.2013	2 Years 2 Years 2 Years	File No. 28-304/2010-NBA

DTE	Institution Code: EN6272	19/6/1984	Life Time	Ref. No. 10-TU-1084-11546(449)

Recognition/Approval letter of University is attached in Annexure 2

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 :……………………(dd/mm/yyyy)

b. For its performance by any other governmental agency?
Yes ☑ √
No ☐

If yes, Name of the agency: AICTE
Date of recognition: 20/10/1993

10. Location of the campus and area in sq.mts:

Location*	Urban
Campus area in sq.mts.	40468
Built up area in sq.mts.	30908

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   √   02

Sports facilities

Play ground	√	01
Swimming pool		
Gymnasium	√	01

• Hostel
- ∗Boys' hostel
  - i.   Number of hostels: 01
  - ii.   Number of inmates: 130
  - iii.   Facilities (mention available facilities) Mess facility within Hostel premises, RO water cooler, Generator Backup, Study Room with inverter facility, Guest room for relatives of boy students of hostel, TV room for entertainment, gymnasium facility, Hot water facility (Solar & Electric Rod), News paper, Indoor games, Outdoor games, Housekeeper for cleanliness, 24*7 Four wheeler availability, 24*7 Security Guards
- ∗ Girls' hostel
  - i.   Number of hostels : 03
    Kalpana: 83   Indira: 78   Sarojini: 91
  - ii.   Number of inmates: 252
  - iii.   Facilities (mention available facilities) Mess facility within Hostel premises, RO water cooler, Generator Backup, Study Room with inverter facility, Guest room for female relatives of girl students of hostel, TV room for entertainment, gymnasium facility, Hot water facility (Solar & Electric Rod), News paper, Indoor games, Outdoor games, Housekeeper for cleanliness, 24*7 Four wheeler availability, 24*7 Security Guards
- ∗ Working women's hostel: **NIL**

- •   Residential facilities for teaching and non-teaching staff (give numbers available—cadre wise): **NIL**
- •   Cafeteria: **02**
- •   Health centre: **01**

First aid: **Ye**s, Inpatient: **No**, Outpatient: **Ye**s, Emergency care facility: **Yes**, Ambulance: **Yes**

Health centre for staff:

Qualified doctor	Full time	☐	Part-time	√
Qualified Nurse	Full time	☐	Part-time	☐

• Facilities like banking, post office, book shops ATM: **In vicinity.**
  - • Transport facilities to cater to the needs of students and staff Bus: **Yes**
  - • Animal house: **Not Applicable**
  - • Biological waste disposal: **Not Applicable**
  - •Generator or other facility for management/regulation of electricity and voltage: **Yes**
  - •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)

SN	Programme Level	Name of the Programme/Course	Duration (in Years)	Entry Qualification	Medium of instruction	Sanctioned/ approved Strength	No. of Students Admitted
1	**Under-Graduate**	Computer	4	HSC (10+2)	English	120	120
2		ENTC	4	H.S.C. (10+2)	English	120	100
3		Civil (1st & 2nd Shift)	4	H.S.C. (10+2)	English	180	157
4		IT	4	H.S.C. (10+2)	English	120	119
5		Mechanical (1st & 2nd Shift)	4	H.S.C. (10+2)	English	180	159
6		Production	4	H.S.C. (10+2)	English	60	38
7		Instru & Control	4	H.S.C. (10+2)	English	60	42
1	**Post-Graduate**	Computer	2	B.E/ B.Tech	English	25	6
2		ENTC - VLSI	2	B.E/ B.Tech	English	18	9
3		ENTC CN	2	B.E/ B.Tech	English	18	5
4		Mechanical Heat Power	2	B.E/ B.Tech	English	18	2
5		Mechanical Design	2	B.E/ B.Tech	English	18	16
6		Civil Environmental	2	B.E/ B.Tech	English	18	9
7		Civil C & M	2	B.E/ B.Tech	English	18	17

8		Production	2	B.E/ B.Tech	English	15	8
Integrated Programmes PG			**Not Available**				
1	**Ph.D.**	Civil Engg		M.E/ M.Tech	English	16	-
2		ENTC		M.E/ M.Tech	English	16	-
3	M.Phil.	-	-	-	-	-	-
4	Ph.D	-	-	-	-	-	-
5	Certificate courses	-	-	-	-	-	-
6	UG Diploma	-	-	-	-	-	-
7	PG Diploma	-	-	-	-	-	-
8	Any Other (specify and provide details)	-	-	-	-	-	-

13. Does the college offer self-financed Programmes?

Yes

No   √

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

Yes	√	No	-	Number	07

     i.   BE Civil Engineering (second shift): in the year 2013-14
    ii.   ME (VLSI and Embedded system) in the year 2012-13 started by E & TC dept
   iii.   ME (Communication Network) in the year 2013-14 started by E & TC dept
   iv.   ME Mechanical - Heat Power (in the year 2013-14)
    v.   ME Civil Engineering - Environmental
   vi.   **Ph.D.** Civil Engineering: 2015-16
  vii.   **Ph.D.** Electronics & Telecommunication: 2015-16

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.): **Not Applicable**

16. Number of Programmes offered under (Programme means a degree course like BA, BSc, MA, and M.Com…)
    a. annual system: Nil
    b. semester system: 07 UG + 08 PG Programmes
    c. trimester system: Nil

17. Number of Programmes with
    a. Choice Based Credit System   : 08 PG Programmes
    b. Inter/Multidisciplinary Approach   : Nil
    c. Any other (specify & provide details) : Nil

18. Does the college offer UG and/or PG Programmes in Teacher Education?
    Yes
    No   √

19. Does the college offer UG or PG programme in Physical Education?
    Yes
    No   √

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

Position	Teaching faculty						Nonteaching staf		Technical staf	
	Professor		Associate Professor		Assistant Professor					
	M	F	M	F	M	F	M	F	M	F
Sanctioned by the UGC/University/ State Government *Recruited*	26		54		165		56	48	31	7
Yet to recruit	-	-	-	-	-	-	-	-	-	-
Sanctioned by the Management/ society or other authorized bodies *Recruited*	2	3	8	4	123	105	-	-	-	-
Yet to recruit	21**		42**		-		-	-	-	-

M-Male F-Female: ** Appointed Assistant Professor against the vacancies

21. Qualifications of the teaching staff:

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	M	F	M	F	M	F	
Permanent Teachers							
D. Sc. /D.	-	-	-	-	-	-	-
Ph.D.	2	2	5	3	1	2	15
M.Phil.	-	-	-	-	-	-	-
PG	-	-	1	-	59	67	127
Temporary Teachers							
Ph.D.	-	-	2	-	-	1	3
M.Phil.	-	-	-	-	-	1	1
PG	-	-	-	-	37	31	68
Part-time Teachers							
Ph.D.	1	-	1	-	-	-	2
M.Phil.	-	-	-	-	-	-	-
PG	-	-	-	-	26	03	29

22. Number of Visiting Faculty/Guest Faculty engaged with the College: **31 (Adjunct Faculty)**

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

Category	Year1 (12-13)		Year2 (13-14)		Year3 (14-15)		Year4 (15-16)	
	M	F	M	F	M	F	M	F
SC	165	76	208	78	161	96	261	100
ST	37	06	45	06	56	06	38	06
OBC	422	143	259	84	441	172	466	204
General	369	88	392	99	335	100	353	105
Others	23	03	27	06	40	04	32	04

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	3098	160	-	-	3258
Students from other	584	22	-	-	606
NRI students	-	-			
Foreign students	-	-			
Total	**3682**	**182**	**-**	**-**	**3864**

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

UG   **42**
PG   **00**

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. 77,612/- |
| **(b) Excluding the salary component** | Rs. 30,896/- |

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

    Yes [　] No [　√　]

28. Provide Teacher-student ratio for each of the programme/course offered
    i.   Instrumentation & Control: 1:15
    ii.   Information Technology: 1:15
    iii. Computer Engineering 1:15
    iv.   Electronics and Telecommunication: 1:15
    v.   Mechanical Engg: 1:17
    vi.   Civil Engg: 1:17
    vii. Production Engg: 1:15

29. Is the college applying for

    Accreditation: Cycle1 √   Cycle2   Cycle3   Cycle4

    Re-Assessment:

(Cycle1 refers to first accreditation and Cycle2, Cycle3 and Cycle4 refers to re-accreditation)

30. Date of accreditation*(applicableforCycle2, Cycle3, Cycle4 and re-assessment only)
    Cycle 1: Not Applicable   AccreditationOutcome/Result: -
    Kindly enclose copy of accreditation certificate(s) and peer team report(s)as an annexure.

31. Number of working days during the last academic year: **270**
32. Number of teaching days during the last academic year: **168**
    (Teaching days means days on which lectures were engaged excluding the examination days)
33. Date of establishment of Internal Quality Assurance Cell (IQAC): **16/02/2017**
34. Details regarding submission of Annual Quality Assurance Reports (AQAR) to NAAC: Not Applicable
35. Any other relevant data (not covered above) the college would like to include. (Do Not include explanatory/descriptive information.

5. Criteria wise Inputs

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 of the Institute

Empowerment through Knowledge

Mission of the Institute

To educate the students to transform them as professionally competent and quality conscious Engineers by providing conducive environment for teaching, learning and overall personality development, culminating the Institute into an International seat of excellence.

Objectives of the Institute

- To produce technically competent, quality conscious Engineers.
- To develop functionally suitable and conducive environment for students and staff for academic purpose.
- To develop the departments into the centre of excellence.
- To develop post graduate centers for all branches.
- To implement effective & efficient Teaching–Learning practices.
- To increase percentage of campus placements.
- To strengthen Industry Institute interaction.
- Help students for personality development and career guidance.
- To develop the students and staff to get international Acclamation.
- To develop an e-learning campus.

Dissemination of Vision, Mission, and Objectives of the Institute

These are displayed and published at –

Fig: 1.1: Dissemination of Vision, Mission, and Objectives of the Institute

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 example(s).

Institute is affiliated to Savitribai Phule Pune University (SPPU).The curriculum is prescribed by the university which is framed through the Board of Studies (BoS) that constitutes senior faculties from affiliated Institutes, representative from industries and various organizations related to academics and research. Normally the curriculum is revised after every five years.

Institute plays a role in the development of the curriculum by participating in the proposal, drafting, finalizing and implementation of the curriculum. This is taken care normally through BOS and Institutes by organizing workshops. The Institute has organized the workshops of syllabus revision as per the request from BOS. Institute has a structured strategy plan for effective implementation of the curriculum.

Action Plan

1. Academic calendar is prepared at Institute and Departmental level which is in line with the academic calendar of University.
2. Considering the competency and expertise of the faculty, the courses (subjects) will be allotted to teachers.
3. Groups of the faculties for similar subject's domain are prepared.
4. Course File and Lab Manuals are prepared /upgraded in advance, which are checked and verified by HOD, Vice-Principal and Principal from time to time.
5. Experimental set-ups at all the laboratories are tested and maintained to conduct experiments.
6. As per revised syllabus, experiment kits/equipments are procured.
7. Academic Time Table (Master and Individual) is prepared, distributed and displayed, duly signed by the authorities, before start of every semester.
8. Continuous up-gradation of course File/ Lab Manual which consist of - Time Table, Structure, Syllabus, Course Outcomes, Lesson Planning, Experiment List, Hand Written Notes/Assignments, PPT's, Model Question papers, Model Answer Papers, Unit Test Papers and MCQ's etc.
9. The student performance will be evaluated through orals, tutorials, unit tests, assignments and seminars. The progress is recorded in Continuous Progressive Assessment Sheet and respective class records.
10. Daily academic monitoring by academic coordinators for smooth conduction of lectures & practical's.
11. Unit/Online Tests are conducted as per the schedule and the results are displayed.
12. Parents meet is organized so that parents get the detailed progress report of their ward.
13. Academic coordinators are nominated to monitor progress.
14. Before availing any kind of leave, faculty has to make substitute arrangement to conduct Lecture / Practical, in his / her absence.

Deployment of Action Plan

Before the commencement of the academic session of each semester, Principal and HOD gives instructions and guide lines in regards – Academic calendar, Time Table, Course files, Industrial visits, expert's lectures and other curricular and co-curricular activities etc.

All the faculties prepare a course file that consist of –

1. Syllabus
2. Course Outcomes
3. Lesson Plan
4. Unit wise Notes
5. Attendance Book with actual deliverables
6. University Question Papers with solution
7. Mid Term Question Papers
8. Model Question Papers
9. Result Analysis
10. PPT, CDs, NPTEL videos etc.

The Institute has Enterprise Resource Planning (ERP) tool which is used for effective deployment of curriculum. Once the classes are commenced, the faculty executes the teaching plan and maintains the record of:-

1. Lectures and Practical's attendance and performance.
2. Keep track of poor attendance of students.
3. Communicate the parents about their ward performance, through SMS, Phone calls etc.
4. Evaluation of Continuous progressive assessment with respect to Practical / Assignments/Tutorial work etc.
5. Evaluations of Periodic unit tests and re-tests.
6. Project work and its progress.

Principal, Vice Principal, HOD and academic coordinator monitor the execution and progress of academics, regularly.

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?

Support from University

The university organizes workshops at different Institutes for proposal, drafting, finalizing and implementation of the curriculum. The faculties work at different capacities, such as participant, subject experts, BOS members, and Academic Council member.

1. To elaborate and illustrate about finalized curriculum of various Course, an implementation workshop is organized at university level, where faculties are introduced to course contents, elaborate the extent of each article, books, teaching plan, experiments and procurement of related equipments (if any). Faculties are deputed for the respective course workshop.
2. University Grants are made available through Board of Colleges and University Development (BCUD) for organizing such workshops for effective execution of revised curriculum.

3. Our Institute has been actively involved in conducting such type of workshops under the guidance of BOS of respective course.

Support from Institute

1. Institute is promoting all faculties to update and to keep pace with the latest developments by participating in Faculty Development Programmes (FDP), Workshops, Seminars and Industrial Training Programmes.
2. Institute promotes faculties to participate, present and publish technical papers in National, International Conferences and Journals
3. Institute is organizing Faculty Development Programs (FDP), Workshops, Seminars and Industrial Training Programmes
4. Institute is having an enriched and developed Library facility, aiming to have good study environment.
5. Institute Provides latest collection of books, NPTEL Videos, Technical publications in central library for different branches.
6. All the computer labs are connected to internet facility.
7. Institute provides various teaching aids such as Projectors, Demo models, Wi-Fi facility for effective curriculum translation.
8. Promoting all the faculties for up gradation of qualification and research work.
9. Organizing induction training programs for newly joined faculty
10. Organizing expert lectures from the industries and respective fields.

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.

For effective curriculum delivery and transaction on the Curriculum provided by the affiliating University, Institute initiates and contributes as follows –

1. To elaborate and illustrate about finalized curriculum of various course, an implementation workshop is organized at university level, where faculties are introduced to course contents, elaborate the extent of each article, books, teaching plan, practical's and procurement of related equipments (if any). The subject faculty is deputed for the respective course workshop.
2. Members of BOS and senior faculties are invited for delivering guest lectures on content and depth of every topic of the respective course.
3. Induction training of faculty for preparation and delivery of the subject are conducted at department level. Senior faculties guide the junior faculties for effective implementation of curriculum.
4. Academic calendar is prepared at Institute and Departmental level that is in line with the academic calendar of University.
5. Considering the competency, expertise and choice of the faculty, the courses (subjects) are allotted to teachers.
6. Groups of the faculties for similar subjects domain are prepared. In this group faculty interact on preparation of notes, resources (books, eBooks, use of NPTEL, video lectures etc.) and teaching aids for various topics of the respective course.
7. Course file and lab manuals are prepared and updated well in advance before the commencement of classes.

8. Experimental set-ups from all the laboratories are tested and maintained to conduct experiments.
9. Academic time table duly Signed by Principal, Vice-Principal, HOD & Time Table coordinator before start of new semester is displayed.
10. Extra practical and lecture sessions for directly admitted second year diploma Students.
11. Faculty uploads course notes on Moodle or blogs or websites
12. Institute has provision of conducting mock online MCQs practice sessions.
13. Institute is having a practice of conducting of mock orals and mock practical exams.
14. Virtual laboratories of College of Engineering, Pune is available as ready reference for various courses. (The Institute has MoU with College of Engineering, Pune).

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

Under the Industry Institute Interaction (III) activity, the Institute interacts with Industry for creating network in improvising the contents and delivery modes of curriculum. Institute has members in BoS and faculties as chairman of the subjects at university level is given in section 1.1.6.

Effective operationalization of the curriculum is done by following ways-

1. Experts and researchers from reputed industries and academic Institutions are invited for lectures on current topics within and beyond the course contents enhancing interaction with the faculty members and students.
2. Institute enters in MoU with industries for in plant training, arranging add on courses etc.
3. Final year students are encouraged to have sponsored projects from Industry so that they can have interaction with the people in various departments of the Industry.
4. Institute receives research grants from various funding agencies such as university, AICTE, Industry etc.
5. Organization of FDP's, seminars, conferences, workshops in association with various organizations.
6. The Institute arranges industrial visits for students to experience the application of the theory studied by them and learn industrial practices
7. Electronics & telecommunications and Civil Engineering departments are recognized as research centers by the affiliating university.
8. Soft skill programs are conducted in each semester to enhance the employability of the students.
9. Institute organizes annual meet of HR and other experts from Industry. In this meet faculty member and Industry persons interact on latest development and requirement of Industry.

1.1.6 **What are contributions of the Institution and /or its staff members to the development of the curriculum by the university? (Number of staff members/departments represented on the Board of studies, student feedback, teacher feedback, stakeholder feedback provided specific suggestions etc.**

The curriculum is framed through Board of studies of the university that constitutes senior faculties from affiliated Institutes, representative from industries and various organizations related to academics and research. Normally the curriculum is revised after every five years. Institute plays a role in the development of the curriculum by participating in the proposal, drafting, finalizing and implementation of the curriculum. Numbers of experienced faculty of the Institute are Chairman of various courses at various departments appointed by BoS at university level. Numbers of faculty of the Institute are involved in curriculum reformation at the University for Framing and drafting of the curriculum. Faculty is also involved as resource persons for the syllabus discussion workshops. Stakeholders like students, alumni, and faculty and Industry experts are involved by taking their feedbacks encompassing various aspects of curriculum.

1.1.7 **Does the Institution develop curriculum for any of the courses 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 courses for which the curriculum has been developed**

All the departments of the Institute offers value added courses to students for bridging the gap between curriculum and Industry expectations. These value added courses are apart from the curriculum of the university. These value added courses will improve the placement of the students.

1. Each department of the Institute has an Advisory Board (AB) for effective delivery of the curriculum, and execution of teaching – learning process comprising of Industry experts, researchers, members from professional societies, alumni, HoD and senior faculty. Suggested value added enrichment programs by advisory board (AB) are implemented at the Institute.
2. Institute is also involved in designing open electives for final year students that helps students to secure jobs in respective fields in the Industry.
3. In the last two years Institute has conducted 20 Value added courses for the students.

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

In order to achieve the objectives of curriculum Institute has taken following measures.

1. Head of departments closely monitor day to day academic activities and progress.
2. Principal and Vice-Principal monitors the academic progress through HODs and academic coordinators, and guidelines are given for taking corrective actions as and when required.
3. Departments conducts internal exams such as unit tests, class tests etc. based on the performance of students in these tests department

identifies weaken areas and takes corrective measures for improving the same.

4. Institute conducts internal and external feedback of students on various academic parameters.

5. In every academic year faculties are assessed on effective implementation of curriculum such as syllabus completion, number of classes conducted , attendance of students, academic results, initiatives for guest lectures, Industry visit and efforts for improving academic performance of the students, contribution in R & D etc.

In addition to above, Institute takes following efforts.

- Giving exposure to students through industrial visits, guest lecturers, interaction with stakeholders etc.
- Assigning projects of various categories- viz. real time, inter-disciplinary, Industry/societal needs.

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.

In order to have better suitability of passing graduates as per the present day requirement of Industry, various skill development and enrichment programs, certificate courses are offered by various departments of Institution. In addition to this add on course are provided by each department in collaboration with the various companies to increase technical knowledge of students. During the span of four year degree course, various level of personality development classes are provided such as in first year – communication skill , second year – soft skill, Third year – group discussion, aptitude, interview techniques and Industry specific training to prepare the student for campus interview.

Table 1.1: Details of certificate/diploma/ skill development courses

SN	Dept	Course	Objective	Association
Academic Year 2016-17				
1	IT	Advanced C++	Understand and Implement Advance C++ Programming Concepts	DYPCOE
2	Civil	Staad Pro	Analysis of Steel Structure	DYPCOE
3	Production	Mechatronics	To produce technically competent, quality conscious Engineers	Pune Techtrol
4	Instrumentation	Industrial automation in PLC & SCADA	To learn controlling techniques for Industrial application	Instron Educamp

5	Mechanical	CATIA	To learn design and modeling of component	IFSA
6	Institute Level	Japanese Language Proficiency Test	Learning Japanese Language	TCS
7	Institute Level	Aptitude and Soft Skills Development	To increase the campus placements.	Apart
8	ENTC	Advance C, C++	To learn the concept of Procedure Oriented and Object Oriented Programming	SEED Infotech, 6 Pi Consultancy, IEF Consultancy. Pune
9	IT	JAVA Add on Course	Learn Funda-metals of Core Java	Seed Info Tech
10	IT	Laptop Repairing Course	Understand Hardware Technology Laptop.	Mr. Arun More Chairman at professional educational society Pune
11	IT	PC Assembly Course	Understand Hardware Technology used in PC, Mobile Development	DYPCOE
12	Computer	Aptitude	Analytical Capability	Seed Infotech
13	Computer	Advance Java	1.Introduction to J2EE 2. HTML & Javascripts 3. Java Servlet 4. JSP 5. Struts	Seed Infotech
14	Institute	Core Java	1. OOP Concepts 2. Language Fundamentals 3. Exception Handling 4.IOStreams & Files	Seed Infotech

15	Mechanical	ANSYS	To learn analysis of component	IFSA
16	Mechanical	Auto Desk Training	To learn the 2D drawings	Auto Desk
17	Institute Level	Barclays Aptitude & Soft skill training	Enhance Soft Skills and Aptitude	Barclays
18	ENTC	BSNL Silver/Gold/ Platinum Certified Training Course	To learn the concept Switching, Signal Transmission & routing	Sopan Kumar Bose, Chief Programme Manager, BSNL AICTE EETP.
19	Mechanical	Hyper mesh	To learn preprocessing operations	IFSA
20	Mechanical	3D PLM	To learn modeling and assembly	3D PLM

1.2.1 Does the Institution offer programmes that facilitate twinning /dual degree? If 'yes', give details.

As Institute is affiliated to Savitribai Phule Pune University (SPPU) which does not offer Dual degree course.

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 skills 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**

Following are the Institutional provisions with reference to academic flexibility in improving skills development, academic mobility, progression to higher studies and improved potential for employability.

a. Range of Core/Elective options offered by the University and those opted by the college

Various electives are offered by Institute as per the need of Industry & students choice which leads to better job employability and also helps in attains the required skill set. Audit Courses are offered as per choice given by students.

Table 1.2: List of Electives based on Core Subjects

SN	Dept	Elective Subject Provided by University	Elective Subject Opted by BE Students
1.	Civil	Structural Design of Bridges	Air Pollution & control
		Systems Approach in Civil Engg.	Construction Management
		Advanced Concrete Technology	Plumbing Engineering
		Architecture and Town Planning	Advanced Transportation Engineering
		Advanced Engineering Geology with Rock Mechanics	System Approach In Civil Engineering
		Matrix Methods of Structural Analysis 1	Advanced concrete Technology
		Matrix Methods of Structural Analysis 2	Architecture & Town Planning
		Integrated Water Resources and Planning	TQM & MIS in Civil Engineering
		TQM & MIS in Civil Engineering	
		Earthquake Engineering	
		Advanced Geotechnical Engineering	
		Construction Management	
		Ferrocement Technology	
		Sub sea Engineering	
		Green Building Technology	
		Statistical Analysis and Computational Methods in Civil Engineering	-
		Plumbing Engineering	
		Wave Mechanics	
		Integrated Water Resources and Planning	
		TQM & MIS in Civil Engineering	
		Earthquake Engineering	
		Advanced Geotechnical Engineering	
		Advanced Transportation Engineering	
2	ENTC	Speech & Audio Signal Processing	Digital Image Processing
		RF Circuit Design	Embedded System & RTOS
		Audio Video Engineering	Electronics Product Design
		Soft Computing	Audio Video Engineering
		Biomedical Signal Processing	Wireless Network
		Nano Electronics & MEMS	
		Detection & Estimation Theory	
		Wireless Networks	-
		Digital Image Processing	
		Embedded Systems & RTOS	

		Software Defined Radio	
		Industrial Drives and Control	
		Multi rate & Adaptive Signal Processing	
		Electronic Product Design	
		PLCs and Automation	
		Artificial Intelligence	
3	IT	Soft Computing	Business Intelligence
		Usability Engineering	Cloud Computing
		Modern Compilers	Mobile Computing
		Parallel Algorithms and Desig	Internet of Things
		E&M Governance	
		Geo Informatics Systems	
		Cloud Computing	
		Natural Language Processing	
		Business Intelligence	
		Service Oriented Architecture	-
		Open Elective	
		Mobile Computing	
		Bio Informatics	
		Advanced Graphics and Animation	
		Real Time and Embedded Systems	
		Information Storage and Retrieval	
		Green IT - Principles and Practices	
		IT Enabled Services	
		Internet of Things	
		Advanced Computer Networks	
4	Prod	Machine tool design	Automobile Engineering & Manufacturing
		Automobile Engineering & Manufacturing	Plastic Engineering
		Computer Integrated Manufacturing and Industrial Robotics	Ergonomics and Human Factors in Engineering
		Plastic Engineering	Product Development
		Ergonomics and Human Factors in Engineering	Supply Chain Management.
		Materials Management & Logistics	
		Financial Management & Cost Control	
		Product Development	
		Supply Chain Management.	
		Plant Engineering & Maintenance.	
		Industrial Relations & Human Resource Management	
		Marketing Management	
5	Instru and Control	Advanced Bio- Medical Instrumentation	Advanced Bio-Medical Instrumentation
		Opto- Electronics Instrumentation	Building Automation- I

		Digital Image Processing	Building Automation- II
		Smart Material and Systems	Robotics
		Building Automation- I	Digital Image Processing
		Environmental Instrumentation	Automobile Instrumentation
		Building Automation- II	-
		Instrumentation in Agriculture and Food Processing	
		Advanced Control Systems	
		Robotics & Automation	
		Process Modelling & Optimization	
		Neural Network and Fuzzy Logic Control	
		Advanced Sensors	
		Sensor Networks	
		Virtual Instrumentation	
		Automobile Instrumentation	
		Advanced Digital Signal Processing	
		Fault Detection and Diagnosis	
		Computer Techniques and Applications	
6	Comp	Image Processing	Advanced Computer Programming
		Mobile Computing	Data Mining Techniques and Applications
		Computer Network Design	Cloud Computing
		Web Technology and Modeling	Cyber Security and Applications
		Advanced Computer Programming	Business Analytic and Intelligence
		Cloud Computing Data Mining Techniques	Mobile Applications
		Cyber Security and Applications	
		Problem Solving with Gamification	
		Business Analytic and Intelligence	
		Pervasive Computing	
		Operations Research for Algorithms in Scientific Applications	
		Embedded Security	
		Mobile Applications	
		Multidisciplinary NLP	
		Open Elective	
7	Mech	Energy Audit Management	Energy Audit & Management
		A Gas Turbine Propulsion	Advanced Manufacturing Processes
		Tribology	Automobile Engineering

		Product Design and Development
		Reliability Engineering
		Operation Research
		Machine Tool Design
		Advanced Manufacturing Processes
		Refrigeration and Air Conditioning Equipment Design
		A Computational Fluid Dynamics
		Robotics
		Finite Element Analysis
		Industrial Engineering
		Design of Pumps, Blowers and Compressors
		Open elective

b. Choice Based Credit System

Choice based specialized programs are implemented for Post Graduate students

Table 1.3: Choice based Specialization for PG

SN	Branch Name	Specialization
1	Electronics & Telecommunication Engineering	ME (VLSI & Embedded Systems)
		ME (Communication Networks)
2	Computer Engineering	M.E.(Computer)
3	Mechanical Engineering	M.E. Mechanical (Design Engineering)
		M.E. Mechanical (Heat Power)
4	Production Engineering	M.E. Production (Manufacturing Engineering & Automation)
5	Civil Engineering	M.E. Civil (Environmental Engineering)
		M.E. Civil (Construction & Management)

c. Courses offered in modular form

University curriculum offer some courses as elective in modular form which does not require any prerequisite knowledge of the subjects mentioned as below

Table1.4 : List of Modular Electives

SN	Dept	Elective Subject
1	Electronics & Telecommunications Engineering	Soft Computing
2	Instrumentation and Control Engineering	Environmental Instrumentation

3		Instrumentation in Agriculture and Food Processing
4	Production Engineering	Automobile Engineering & Manufacturing
5		Ergonomics and Human Factors in Engineering
6		Supply Chain Management.
7	Mechanical Engineering	Operation Research
8		Industrial Engineering
9		Finite Element Analysis

d. Credit transfer and accumulation facility

As Institute is affiliated with SPPU, there is no provision for Credit transfer and accumulation facility

e. Vertical and lateral mobility within and across programs and courses

Vertical Mobility

Since First year Engineering is common to all the programmes, students can opt for a change in admitted programme at Second year provided there is a vacancy available in the desirable programme and merit standards.

Lateral Mobility

Direct admission of the Diploma students in Second year of Engineering programme

f. Enrichment programs
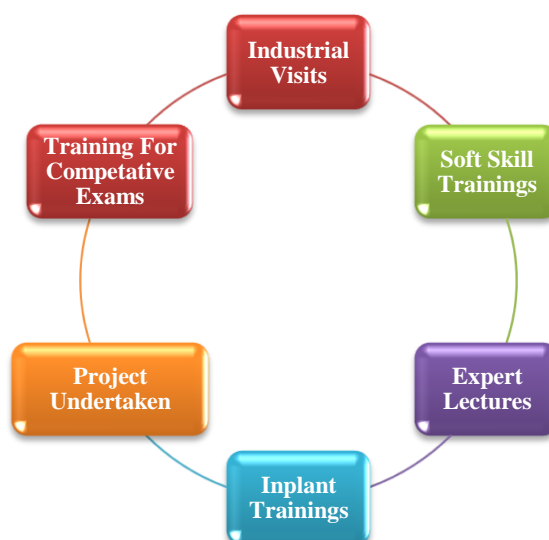
Fig: 1.2: Enrichment programs

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.

In addition to courses offered in the curriculum to enrich the knowledge and developing various skill set, Institute offers following short term program/ Courses:-

Table1.5: List of Self Financed Program / Courses

SN	Academic Year	Dept	Course Offered	Duration	Organization
1	2016-17	Institute Level	APART (Aptitude & soft Skill training)	60 hrs	SEED Infotech, 6 Pi Consultancy, IEF Consultancy. Pune
2		Instrumentation Engineering	Industrial automation in PLC & SCADA	100 hrs	Instron Educamp
3		Mechanical Engineering	CATIA	50hrs	IFSA
4	2015-16	Institute Level	JLPT (Japanese language Proficiency Test)	100 hrs	Japanese Language Teacher's Assosiation of Pune
5		Instrumentation Engineering	Industrial automation in PLC & SCADA	100 hrs	Instron Educamp
6		Electronics & Telecommunication Engineering	PCB Designing	2 months	Four Dimension Infotech
7		Mechanical Engineering	ANSYS	50hrs	IFSA
8		Mechanical Engineering	CATIA	50hrs	IFSA
9		Mechanical Engineering	Seed InfoTech	90 hrs	Seed InfoTech
10		Civil Engineering	Hit office Training	7 Days	Engineering Design Solution
11		Information Technology Engineering	JAVA Add on Course	60 hrs	Seed Infotech
12		Computer Engineering	JAVA Add on Course	38 days	Seed Infotech
13	2014-2015	Institute Level	SEED	60 hrs	Seed InfoTech
14		Mechanical Engineering	ANSYS	50hrs	IFSA
15		Mechanical Engineering	CATIA	50hrs	IFSA
16		Mechanical Engineering	Hyper mesh	50hrs	IFSA
17		Mechanical Engineering	Seed InfoTech	90 hrs	Seed Info Tech
18		Production Engineering	Six Sigma (Green Belt)	2 Months	Institute of Fundamental in Quality (IFQ)

1.2.5 Does the college provide additional skill oriented programmes, relevant to regional and global employment markets? If 'yes' provide details of such programme and the beneficiaries

Yes, Institute provides additional skill oriented programs regularly. Based on the level of technical skills to be imparted, there are short term courses for specific branch of varying durations. Undoubtedly these programs are the way to get career opportunities. Details are as follows

Table 1.6: Skill Oriented Programmes for Employability

SN	Program	Beneficiaries Students	Resource Person/ Organization	Duration
1	APART (Aptitude & soft Skill training)	TE (all Branches)	Mr.Mohit Mantri, AAPART Academy, Pune.	90 hrs
2	JLPT (Japanese language Proficiency test)	SE,TE,BE (all Branches)	Japanese Language Teacher's Association of Pune	Feb 2017-April 2017
3	SEED	TE (all Branches)	SEED Infotech, 6 Pi Consultancy, IEF Consultancy. Pune	60hrs
4	Mechatronics	TE	Pune Techtrol	15 Days
5	Statistical & Quantitative Research Methods	ME	QC Services	3 Days

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 courses/combination of their choice" If 'yes', how does the Institution take advantage of such provision for the benefit of students?

Savitribai Phule Pune University does not provide the flexibility of combining the conventional face-to-face and Distance Mode of Education for students

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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?

As Institute is affiliated to Savitribai Phule Pune University, it follows the curriculum which is designed by Management Acedemic Council and BoS members appointed by the University. Various stakeholders are involved in

designing the curriculum which caters need of Industry, academia, society etc. University revises curriculum by the interval of 4-5 years. To enrich and supplement the curriculum Institute conducts following activities.

1. Guest lecturers /Expert lectures from Industry, academia and research organization are arranged to bridge the gap between Industry expectations and academic provisions.

2. Institute organizes Conferences, workshops, seminars and development programs to equip the faculty and students with the latest developments in the core areas.

3. Institute has collaborations with renowned national and international organizations for academic interactions and association for research and development.

4. Institute is associated with the professional bodies like CSI, ISTE, IEEE, IE, and ACM where faculty and students get a platform to interact on latest development in respective fields. This also leads to publications and development of projects.

5. To supplement university's curriculum, Institute also deputes students for in plant training to enhance knowledge and to get exposure to industrial atmosphere.

6. Majority of students work on Industry sponsored project.

7. Institute conducts annual-technical events. In these events students explore their technical skills and it helps for learning beyond syllabus. Students are also encouraged to participate in various interdisciplinary international competitions such as TECHFEST, ROBOCON, BAJA, SUPRA, FSAE etc.

8. Institute participates in Industrial events and exhibitions.

9. Through the alumni and HR meets faculties get exposure about the latest development and requirements of Industry. It helps them for designing add-on and certificate courses for the students.

1.3.2 What are the efforts made by the Institution to enrich and organize the curriculum to enhance the experiences of the students so as to cope with the needs of the dynamic employment market?

In order to develop the professionals, to meet the requirements of dynamic employment market, Institute conducts following activities as per Fig. 1.3.

1. Institute has active III cell. In this cell, faculty members interact with Industry experts. It helps them for understanding the requirement of Industry.

2. Institute has signed MOU with various industries and well known technical Institute. Through this MOU faculties and students have got access to laboratories and latest technical tools.

3. Institute conducts annual meetings with alumni and HR personnel from Industry.

4. Institute conducts various add-on and certificate courses for students based on requirements of Industry which enables the students to become suitable for Industry requirement.

5. Institute organizes various skill development programs such as soft skill, communication skill, and personality development etc for the students. Experts from Industry are invited for conduction of these courses..
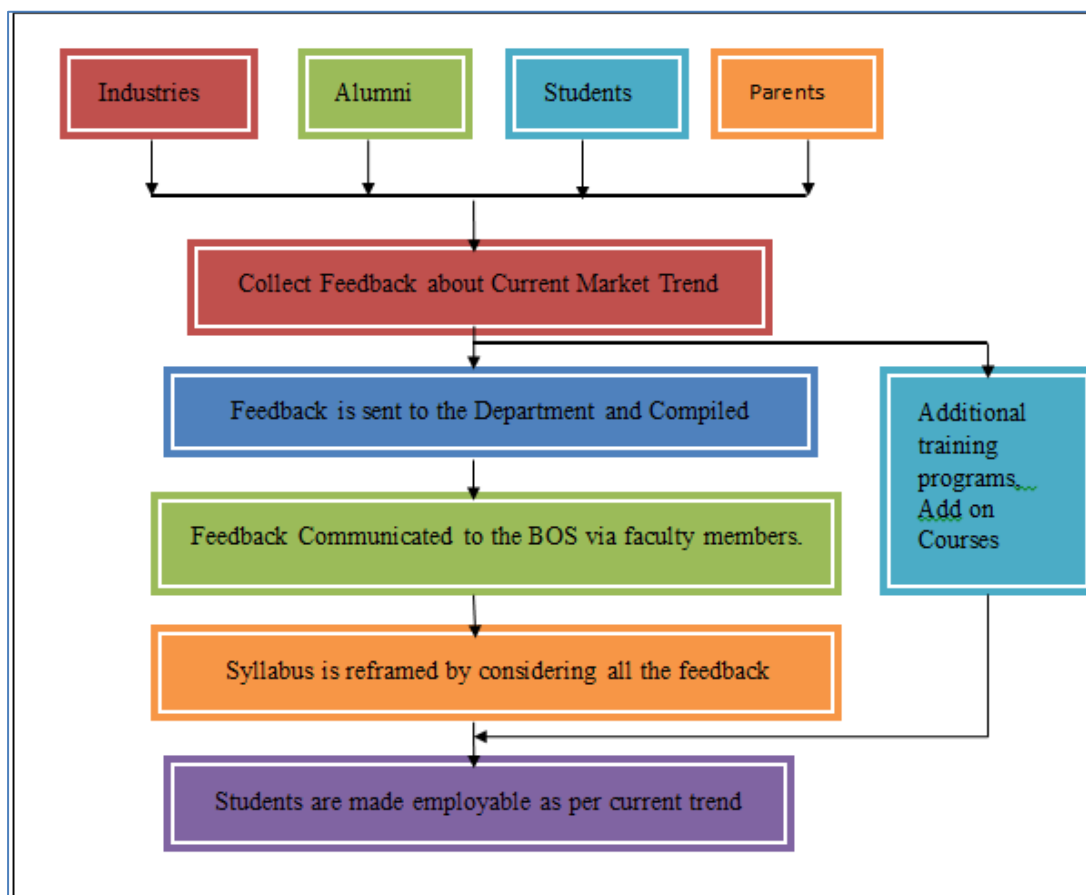
Fig: 1.3: Process to collect the current market trends and incorporating in Curriculum

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?

Table 1.6: Subjects of Curriculum related to the cross cutting issue

SN	Issues	Class (Branch)	Name of Subject	Relevant Topic
1	Climate Change	SE Computer	Audit Course I	Pollution Control, Global Warning
		SE Computer	Audit Course II	Water Management

2	Environmental Education	BE Civil	Air Pollution and control	Types of air pollution, causes of air pollution, control methods of air pollution
		ME Civil	Environment and energy for sustainable construction	Concept of Environment & Environmental Impact Factors
		ME Civil	Disaster Management	natural calamities such as earthquake, floods, drought volcanoes, forest, coasts hazards, landslides
		SE Computer	Audit Course I	Road Safety
		SE IT	Audit Course I	Road Safety
3	Human Rights	SE IT	Audit Course I	Human and social development
		SE Computer	Audit Course I	Human and social development

Table 1.7: Activities to create awareness of cross cutting issue

SN	Issues	Activities Conducted	Duration	No. of Students Benefitted
1	Gender	Seminar on Gender Equality	23/2/2017	90
		Exhibition on Gender equality	14 //09/2016	200
		Seminar on Gender Equality	18 /02/ 2016	120
2	Climate Change	E-Waste collection drive	14/09/2016 to 16/09/2016	40
		Disaster Management	04 /09/2015	80
3	Environmental Education	River Engg & Magt	23 /07/2016	100
		Session on Awareness of Traffic Rules	22 /09/ 2016	160
		Social Activity on Swachha Bharat: Plastic removal and road cleaning	26 /01/2017	35
4	Human Rights	Nirbhaya Kanya Abhiyaan	20 /01/ 2017	180

Table 1.8. : Institute Integration for cross cutting issue

SN	Cross Cutting Issue	Institute Integration
1	Gender	• Various sessions are arranged to create the awareness of Gender Equality • Institute has Woman Grievances Redressal cell
2	Climate Change	• Institute has maintained 90% greenery in the campus for which Institute has received award from Pimpri Chinchwad Municipal Corporation • Institute has Rain Water Harvesting system in the campus.
3	Environmental Education	• Awareness sessions are arranged on Effluent treatment plant, E-Wastage, Road safety etc. • Participation in Digital India campaign
4	Human Rights	• Guest Lectures are arranged • Anti ragging Committee, Internal Complaint Committee are in place
5	ICT	• ERP System, Myexamo, Googlegroups, Moodle, NPTEL Video

1.3.4 What are the various value-added courses/enrichment programmes offered to ensure holistic development of students? Moral and ethical value, Employable and life skills, Better career options, Community orientation

Moral and Ethical Values

For an individual's mental, physical, social, emotional, spiritual and professional growth, various value-added courses/enrichment programmers are carried out in the Institution. For developing and exploring student's interests various cultural plays, technical events and social activities are organized by the students.

To start with for physical development, Yoga Day is celebrated every year. For dealing with stress of various phases of life like examinations, jobs, peer pressures, sessions of field experts like Dr. Sapana Sharma, Mr. Nathani are arranged periodically. For spiritual motivation, program of saints like Dada J. P. Vaswani is organized. For motivational talks, experts like Dr. Kiran Bedi, Air Marshal J.S. Kler (VM), Commandant, National Defense Academy, Pune etc were also organized by the Institute. Students are also motivated with Student Development programmes like The Magic of Dabbawala's Unfolded.

For promoting socialism among students and contributing as a small step towards the responsibilities for society various programmers like social activities and E-Awareness drives were carried out at the Institute.

Employable and life skills

Along with good technical and subject knowledge, employers often outline a set of skills that they want from an employee. Knowledge, skills and the attitude with which a student presents it to employers are the three basic components for being employable.

For developing logical, communication skills and personality development Institute hires experts from Industry.

For competing at international level as language should not be a barrier, foreign language training program like JLPT is being conducted for students. To enhance this qualities among students various activities like Expert lectures, Sessions, workshops on life skills are conducted periodically for the students. International days like Yoga day, Youth day, women's day, and Engineer's day are also celebrated, which helps to inbuilt the ethical values among the students.

Better Career options

For creating awareness among students regarding the career opportunities available in their field of interest, career guidance seminars, counseling sessions are conducted. Career guidance cell is formed at the Institute to provide the best possible help and guidance to students in selecting their career. Student surveys to identify students interest are conducted and accordingly various activities are organized.

Community Orientation

The Institute has an effective NSS unit under which camps are organized every academic year. For contributing to environmental issues, social awareness, tree plantation drives and blood donation camps are carried out. Institute associates itself with NGO to develop the orientation towards community and society. Institute has adopted students from Nachiket Balashram and supports for their educational need. For contributing to national level issues various social awareness programs like Beti bachao, Digital India, E Drive and Traffic Awareness program are held.

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

Feedback is an essential part of the learning process. Institute takes feedback from its stakeholders like students, alumni, parents, industries and considers it in enriching the curriculum. As per analysis of feedback obtained from Industry and alumni, Institute has started Add on courses in all departments for students to meet the Industry needs and bridge the gap between curriculum and Industry. As per the feedback, the Department communicates requirements to Board of Studies (BOS). BOS reframe the syllabus by considering all the inputs, after every Five Years.

Parent Teacher meet is arranged in every semester and academic performance of the ward is informed to parent. Also, valuable feedback regarding their views and expectations from Institute has been taken in the Meet

1.3.6 How does the Institution monitor and evaluate the quality of its enrichment programmes?

Enrichment makes something more meaningful, substantial, or rewarding. In order to enrich the student's life various enrichment programs are carried out by the Institute. All these programs are monitored continuously with following measures.as per Fig. 1.4.
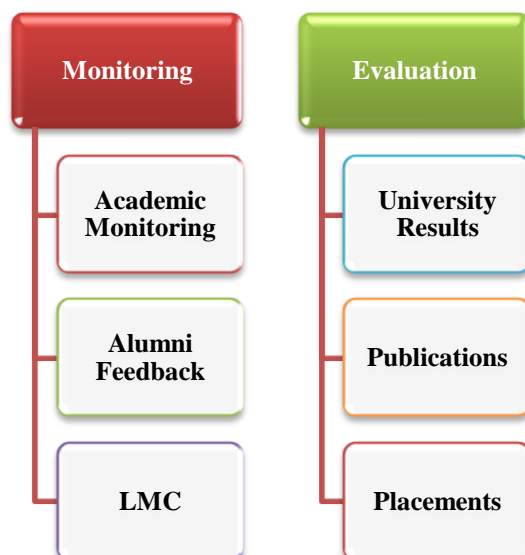
Fig: 1.4: Measures for monitoring and evaluation

1.4 Feedback System

1.4.1 What are the contributions of the Institution in the design and development of curriculum prepared by the university?

The Institute is affiliated to Savitribai Phule Pune University (SPPU). The process followed by the Institution for contributing in design and development of curriculum is depicted in fig 1.3.

The Institute contributes towards the curriculum development as below:

1. Institute in collaboration with the university organize workshop and seminars before the revision of curriculum and by doing so it gives an opportunity to all faculty members to actively participate in these curriculum revision workshops.

2. The Institute deputes faculty members to participate in syllabus implementation workshops for various courses. In these workshops faculties are trained by the BOS members and senior faculties for smooth implementation of curriculum.

3. Senior faculty members of our Institute are working as external examiners and members of Local Inspection Committee (LIC) of university. During their visit to various colleges, they have interaction with the faculty of that Institute and become aware of need of revision of syllabus.

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

Yes, Institute takes feedback of stake holders such as parents, alumni, Industry personals on existing curriculum.

1. **The feedback from the Industry** is obtained when Industry personal visit the college for expert lectures so as to understand industries requirement for enriching the curriculum.

2. During the practical/ oral examination the Institute again takes a **feedback from external examiner from Industry** to know about adequacy of curriculum delivery to the students.

3. The Institute periodically **organizes alumni meet** to get the information about the latest techniques and practices followed in Industry.

4. To know views of parents departments conduct **parent teacher meet** twice in a year.

5. Once in a semester feedback from students is also taken by Institute.

Table 1.9: Stakeholders feedback

SN	Name of Stakeholder	Frequency	By means
1	Industry Experts	During campus visit	Verbal / letter
2	Alumni	During alumni meet / personal interaction	Verbal / letter /
3	Parents	During Parent – teacher meet	Verbal / letter
4	Employer	During campus placement	Verbal / letter
5	Examiners / visitors	End semester OR / PR examinations	Verbal / letter
6	Students	Once in a semester	Verbal / letter

1.4.3 How many new programmes/ courses were introduced by the Institution during the last four years? What was the rationale for introducing new courses /programmes? Any other relevant information regarding curricular aspects which the college would like to include.

Table 1.10: Summary of New courses added in Last 4 years

SN	Dept	New Courses added in last 4 years (BE/ME/Research Centre)	Year of commencement	Rationale
1	Civil	Research Centre	2015-16	A research centre provides a platform to nurture research culture in the frontier areas of Civil.
2		BE (Second Shift)	2013-14	To cater the increasing needs..
3	ENTC	PhD Research Centre	2015-16	A research centre provides a platform to nurture research

				culture in the frontier areas of Elecronics and Telecommunication.
4	ENTC	ME-Communication Network	2013-14	To attain the expertise in the field of advance wireless communication.
5	Mech	ME- Heat Power Engineering	2013-14	To attain the expertise in the field of Thermal Engineering.

CRITERION II
Teaching and Learning Evaluation

2.1 Student Enrollment and Profile

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

The admission process is conducted and monitored by the DTE, Maharashtra as per the government norms. The admission process of the college is broadly publicized and is transparent. The college has formed an active admission cell under which members visit junior colleges all over Maharashtra focusing rural areas and offer career guidance seminars, counseling sessions and assistance towards Engineering admissions. The publicity processes adopted by the admission cell of the Institute is pictorially represented in Fig. 2.1.

Fig: 2.1: Publicity process of admission cell

The College participates in centralized admission process of DTE, Maharashtra and follows all admission rules, regulations and guidelines set up by the state government and thereby ensuring transparency in admission process

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 admission process is governed by DTE Maharashtra through central admission process (CAP). The criteria for the admission for A.Y.2016-17 is revealed in table 2.1

Table 2.1.: Criteria for admission

SN	Course	Criteria for admission
1	FE	50% marks (PCM) + 50% marks (CET) for open category
		45% marks (PCM) + 45% marks (CET) for reserved category
2	DSE	Merit list on the basis of final year diploma marks
3	PG	GATE score

The admission process is depicted in fig 2.2

Fig: 2.2: selection of students for admission in different levels

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.

FE Admission minimum and maximum JEE/ MH-CET score in 2016-17 with respect to nearby colleges under SPPU is as given in table 2.2.

Table 2.2: Minimum and maximum score comparison with other colleges

Course	Colleges							
	DYPCOE		RSCOE		GS Moze		SKNCOE	
(Engineering)	Max	Min	Max	Min	Max	Min	Max	Min
Mechanical	124	77	106	42	129	56	85	34
Civil	112	83	101	43	114	51	84	48
Computer	128	106	105	64	116	57	79	50
ENTC	102	73	87	43	86	32	83	39
IT	123	91	103	35	--	--	--	--
Production	100	43	-	--	84	55	--	--
Instru and Control	81	59	--	--	--	--	--	--

DYPCOE = D.Y. Patil college of Engineering, Akurdi, Pune
R.S.C.O.E = Rajarshi Shahu College of Engineering, Tathawade, Pune
AISSMSCOE= All India Shri Shivaji Memorial Society's College of Engg, Pune
ICOEM = Indira College of Engineering and Management, Pune

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 College has a mechanism to review its admission process and student profile annually under admission cell. The admission data is collected state wise and region wise to enhance students outreach. Every year, conduction of review meetings, brain storming sessions, focused career guidance seminars, counseling sessions etc. are conducted resulting in satisfactory admission count. Admission management software has been purchased at the campus level to take care of the admission process.

Student Profile

Student's profiles are available at various outlets of the college that assists the admission process.

- College has a fully deployed ERP system that helps in continuous monitoring available to faculty, Parents and students.
- An effective teacher guardian (TG) scheme is implemented in which every faculty mentors around 20-25 students. Academic, co-curricular and extracurricular profile of individuals is maintained in the TG booklet
- Employable students' profiles are available in the training and placement cell.

Outcome

- Diversified students background is available for further analysis.
- Student's potential and learning behavior is identified.
- Academic progress of the wards is shared with parents.

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.

The policies adopted by the College are as per the Government of Maharashtra, DTE and AICTE rules and regulations which reflect the national

commitments for all the religion, caste and categories. A separate category wise merit list is prepared i.e. SC, ST, OBC, NT, VJ, women, differently abled, J&K quota. The Reservation policies used for admission are shown in figure 2.3. As per the courses offered, the number of students admitted is listed in table 2.3
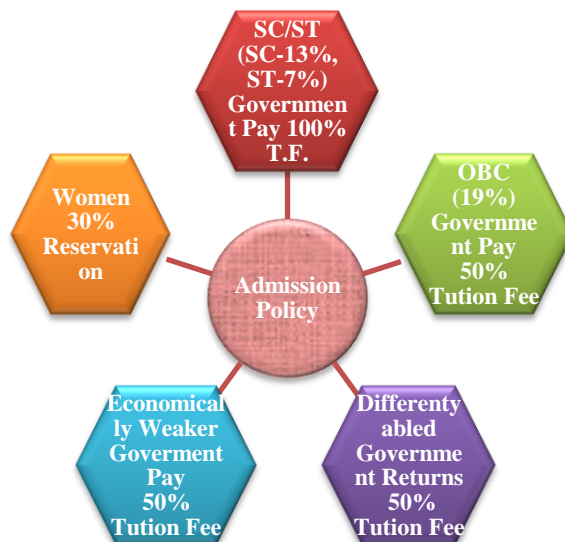
Fig 2.3: Reservation policies used for admission

Table 2.3 : Number of students admitted in Academic Year 2016-17

Course	M	F	Open	SC	ST	OBC	NT	Others
Mechanical	145	18	78	17	03	47	19	02
Civil	129	28	64	16	02	54	23	02
Computer	92	36	77	09	02	28	07	05
ENTC	67	39	65	05	--	25	09	02
IT	94	33	78	11	02	27	08	01
Production	40	02	21	03	--	14	04	--
Instru. & Control	35	11	19	04	--	18	05	--

2.1.6 Provide the following details for various programs offered by the Institution during the last four years and comment on the trends. i.e. reasons for increase / decrease and actions initiated for improvement.

Table 2.4 shows various Under Graduate programs offered by the College and growth in intake of various programs

Table 2.4: Under Graduate programs offered by the Institute and growth intake of various programs

Programs	Year	Number of Applications	Students Admitted	Demand Ratio (%)
Mechanical Engineering	2016-17	180	159	88.3
	2015-16	180	180	100
	2014-15	180	178	98.9
	2013-14	180	180	100

	Year	Applications	Admitted	Demand Ratio (%)
Civil Engineering	2016-17	180	157	87.2
	2015-16	180	180	100
	2014-15	180	175	97.2
	2013-14	180	180	100
Computer Engineering	2016-17	120	120	100
	2015-16	120	120	100
	2014-15	120	115	95.8
	2013-14	120	120	100
ENTC	2016-17	120	100	83.3
	2015-16	120	120	100
	2014-15	120	94	78.3
	2013-14	120	120	100
Information Technology	2016-17	120	119	99.1
	2015-16	120	120	100
	2014-15	120	119	99.1
	2013-14	120	120	100
Instrumentation & control Engineering	2016-17	60	42	70.0
	2015-16	60	60	100
	2014-15	60	52	86.7
	2013-14	60	52	86.7
Production Engineering	2016-17	60	38	63.3
	2015-16	60	59	98.3
	2014-15	60	47	78.3
	2013-14	60	57	95.0

Keeping pace with changing scenarios in industry, various Post Graduate programs are offered by the Institute and is detailed in table no 2.5

Table 2.5 Post Graduate programs offered by the Institute with intake

Programs	Year	Number of Applications	Students Admitted	Demand Ratio (%)
Heat Power Engineering	2016-17	18	02	11.1
	2015-16	18	11	61.1
	2014-15	18	13	72.2
	2013-14	18	09	50.0
Design Engineering	2016-17	18	16	88.9
	2015-16	18	16	88.9
	2014-15	18	16	88.9
	2013-14	18	18	100
Environmental Engineering	2016-17	18	09	50.0
	2015-16	18	17	94.4
	2014-15	18	10	55.6
	2013-14	18	18	100
Construction Management	2016-17	18	17	94.4
	2015-16	18	17	94.4
	2014-15	18	18	100
	2013-14	18	18	100
Computer	2016-17	25	06	24.0

Engineering	2015-16	25	18	72.0
	2014-15	25	22	88.0
	2013-14	25	25	100
VLSI & Embedded System	2016-17	18	09	50.0
	2015-16	18	14	77.8
	2014-15	18	18	100
	2013-14	18	18	100
Communication Networks	2016-17	18	09	50.0
	2015-16	18	14	77.8
	2014-15	18	17	94.4
	2013-14	18	18	100
Production Engineering	2016-17	15	08	53.3
	2015-16	15	13	86.7
	2014-15	15	13	86.7
	2013-14	15	14	93.3

Reasons for the initiation of new courses and increase in intake is mentioned below

Mechanical Engineering

With growing automotive centers, aerospace, Micro-Electromechanical Systems (MEMS), industrial automation, renewable energy and manufacturing sectors, there is a great demand of mechanical Engineers globally. Interdisciplinary approaches to solve the problems are creating more jobs. Research and development culture is improving where students have to upgrade their qualification.

Civil Engineering

Increasing pace of development in real estate and planned infrastructure globally and nationally with upcoming projects like river linking, metro projects, Yamuna Express Highway, GIFT city, airports, etc. there is huge demand for civil Engineers who can work as designers, consultants, suppliers, manufacturers in various fields related to Civil Engineering. This has created job opportunities for fresh civil Engineers with undergraduate and post graduate qualification and the demand is increasing every year.

Master of Engineering

To enhance the students with advanced knowledge and create eagerness for research, master of Engineering plays the role of catalyst.

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?

All the norms laid by the Government for the differently-abled students are followed by the Institute. Following facilities are provided by the College for differently-abled students:

- The College infrastructure is well equipped to meet the needs of the physically disabled by providing lifts, wheel chairs, western toilets, ramps and rest room.
- Seating arrangement in university examinations is made on ground floor.
- Special arrangements like writer and additional time as per norms is provided during examinations.
- In case of medical emergency, facilities like stretcher, first aids, bed and doctor are made available.
- Special treatment is given in the central library for easy access. Book bank facility is provided at central and department library.
- Special provision is made to comfort them at administrative office.

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

Yes. The College does assess the students' needs in terms of knowledge and skills before the commencement of the programme.

1 • Diagnosis tests are conducted to assess communication skills (oral and written)

2 • Tests for interpersonal skills like softskills, presentation skills etc are conducted

3 • Skills like analytical abilities and logical thinking are assessed

4 • An induction programme is organized for newly admitted students and their parents to help them in understanding the norms of university
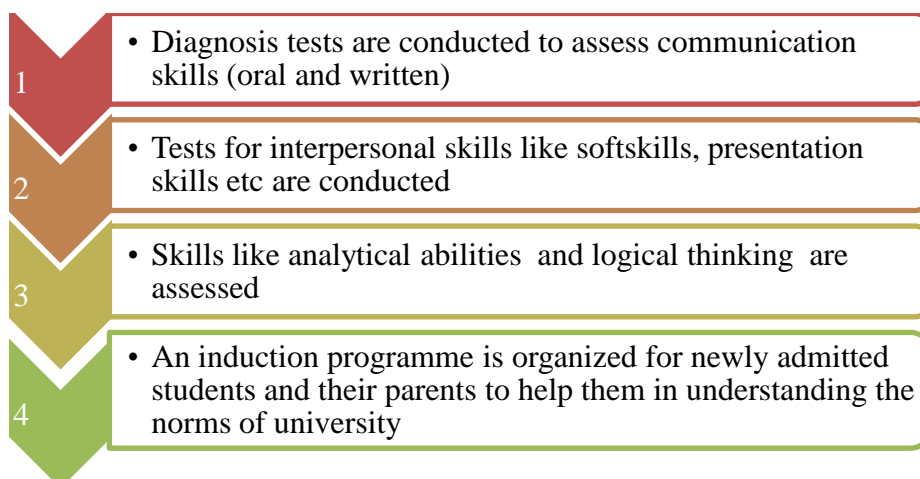
Fig: 2.4: Assessment of Knowledge and Skills

2.2.3 What are the strategies adopted by the Institution to bridge the knowledge gap of the enrolled students (Bridge/Remedial/ Add-on/Enrichment Courses, etc.) to enable them to cope with the program of their choice?

The different strategies adopted by Institute to bridge the knowledge gap of the enrolled students are as depicted in Fig. 2.5
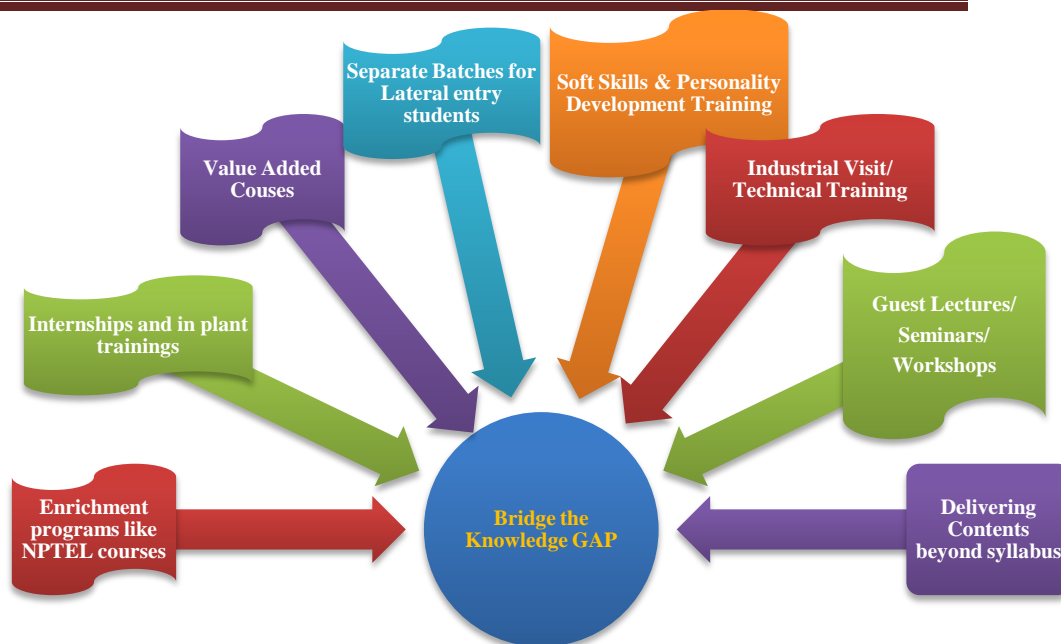
Fig: 2.5: Strategies for bridging the knowledge gap

2.2.4 How does the college sensitize its staff and students on issues such as gender, inclusion, environment etc.?

College is keen on including all the students irrespective of their gender, inclusion and environment awareness

Gender

College sensitizes its staff and students by

- Constituting gender equality cell.
- Providing equal opportunities for students to actively participate in curricular and extra-curricular activities
- Bequeathing equal opportunities for students representative in the students council irrespective of gender
- Arranging guest lectures and seminars on gender issues with special focus on its legalities
- Providing equal opportunities for personal and professional growth to all faculty members
- Redressing the grievances of faculty and students through an Internal Complaint Committee (ICC)

Inclusion

College involves its staff and students through

- Commitment of faculty and students to formulate and implement Vision and Mission
- Incorporation of diversified views and ideas of faculty and students in the functioning of the department for scheduling various activities like academic calendar, activity calendar, Independence Day and Republic day celebrations etc.
- Effective student feedback mechanism that receives and integrates welcome ideas for continuous improvement of academic and administrative framework
- Suggestion schemes, financial support to student activities etc

- Formation of Professional Student's chapters in various departments comprising of student and Faculty co-coordinators
- Organization of activities like Blood donation camps, Yoga day, recreational activities etc

Environment

The College sensitizes faculty and students on various environment issues to foster sense of responsibility towards environment preservation through following systems

- Rain Water Harvesting
- Sewage treatment plant
- Green and clean campus
- Energy saving mechanisms
- E-waste collection

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

Identification

- The advance learners are identified based on entrance examination results, and subsequent performance in continuous internal assessment and university results.
- Teacher Guardians are identifying advanced learners through counseling sessions
- Class teachers and subject teachers identify the advance learners through class room responses.

Response

- College waives the fees of students who tops in first ranks in University examinations.
- The College awards Toppers, University rank holders with Appreciation certificates, recommendation letters.
- Advanced learners are given opportunities for conducting trainings on various technical contents.
- The College motivates the advanced learners for industry, R&D and IIT internships.
- College conducts guest lectures by the experts from the field and Industry.
- The College encourages the advanced learners to participate in the various technical contests like BAJA, SUPRA, GOKart, Bridgemaking, coding, project competitions etc.
- Special permission is granted for the students to participate in national and international events (Global Student Forum, etc)
- Institute signed MoUs with Industries, Institutes and Government bodies (TSSC, BSNL etc) to help the advanced learners.

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. Who may discontinue their studies if some sort of support is not provided)?**

The Institute has always taken care of the students who are on the verge of dropouts. Their data is collected, analyzed and used to gauge the academic performance of the students.

Collection

Data related to academic performance of the students at the risk of dropout is collected at various academic outlets.

- Class Teachers are appointed to maintain record of students like leave, reasons for leaves, result analysis, record of extra and co curricular activities, monthly attendance etc.
- The Teacher-Guardians regularly and informally meet the students in departments. Also, interactions with parents give valuable information of students about the physical and other problems.
- The academic performance of an individual is assessed based on the Result Analysis of class test and SPPU in- semester, online, Practical, oral and theory examinations.
- Details about the students from disadvantaged section of society as well as physically challenged students can also be available from students section.
- Faculties also get personal information through teacher guardian scheme.

Analysis

- ERP Software is utilized to analyze the attendance and academic performance of the students.
- Student's academic performance analysis is carried out by means of Teacher Guardian Record book, Progressive Assessment sheets and result analysis.
- After going through the academic records, list of students at the risk of dropout is prepared and related issues are discussed in Department meetings.
- Personal calls are made to parents for understanding the seriousness of students' problems.

The College uses the data and analysis of information to support the students on the risk of dropout.

Support for physically challenged

- Social welfare and Training and placement section of the college regularly informs physically challenged students regarding benefits reserved for them, like scholarships from government, special employment opportunities and reservations in higher studies.
- To meet academic and examination requirements in physically challenged cases, all arrangements are made at the College level as per norms.

Support for slow learners

- Remedial classes are conducted as per the student's requirements.
- Extra sessions for students with weak communication are arranged by training and placement section of the college.
- Question banks and model answer sheets as well as subject wise course material are made available by each subject teachers.

Support for Economically Weaker Section

- Under earn and learn scheme promoted by SPPU, Institute identifies economically weak students through teacher guardian scheme. These students are provided finalncial support through earn and learn scheme.
- Information about different scholarship schemes from various government and non-government organizations is provided by the College.
- Students under economically weaker section but not eligible for any scholarship are allowed to pay fees in installments.
- Book Bank facility is available to students.
- Awareness about different education loan schemes is made available to them.
- Institute provides financial support to Economically needy students.

Support for Disadvantaged sections of society

- The students of SC/ST/EBC/OBC/minority categories are given benefits in admission and scholarship as per government rules and regulations.
- College allows students to pay their fees in installments.
- The college guides them about the social welfare schemes.

2.3 Teaching Learning Process

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

SPPU declares the academic calendar well in advance. Based on it, academic calendar of the Institute and various departments commence preparations for:

- SPPU exams (oral, practicals, in semester exams, end semester exams, online exams).
- Academic events such as guest lectures, site visits, unit tests, prelims, workshops, seminars, project presentations.
- Other activities such as co curricular and extracurricular activities

Teaching and Learning schedule is prepared that includes following points:

- Allotment of subjects to faculties based on choice preferences and specialization.
- Preparation of time table based on the allotted subjects
- Display of time table on notice board and uploading in ERP.
- Preparation of course file which contains teaching plan, course material etc.
- After the commencement of semester, all faculties are responsible for conduction of lectures and practicals as per the timetable.

- Head of department or senior faculties of the department attend Junior Faculty member's lectures and give necessary suggestion to improve teaching learning process.
- After every month head of department conducts meeting to take review of syllabus coverage and discuss the difficulties if any.
- Feedback from the students is taken for all subjects and feedback analysis is done. The corrective measures are taken.

Evaluation Schedule

The continuous evaluation of students knowledge is done through university examination and continuous assessment carried out at department level. Evaluation of teaching learning Process is as shown below
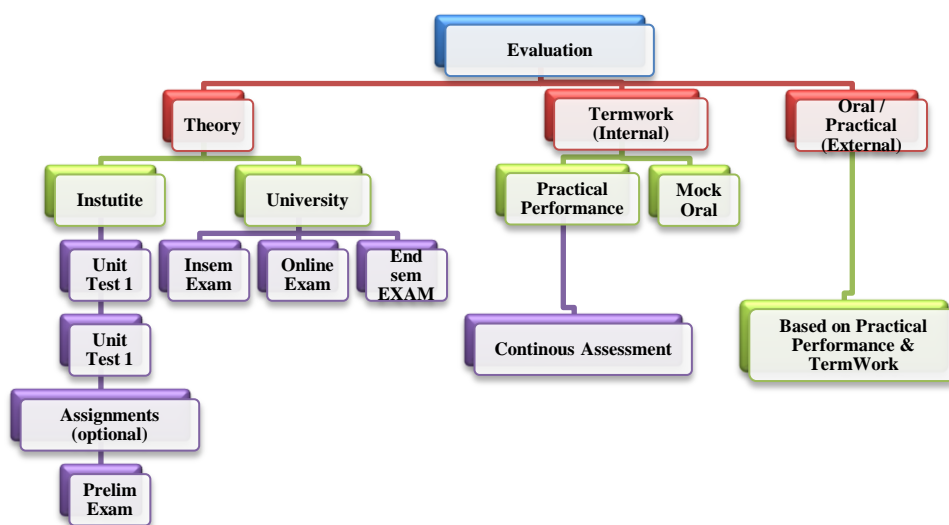
Fig: 2.6: Process of Evaluation of Students

- For practical evaluation, continuous assessment is carried out and marks for attendance (5 marks), Performance (15 marks) and Presentation (5 marks) are given to students in each practical session.
- The Term work marks are allotted based on average marks secured in progressive assessment sheet.

2.3.2 How does IQAC contribute to improve the teaching Learning Process?

Contributions of DYPCOEs IQAC

- DYPCOEs IQAC, ensures about efficient and progressive academic performance.
- Quality sustainance and enhancement are considered at priority
- Modern teaching learning tools are used in all the departments
- College ensures support structures viz; academic monitoring committee and departmental academic coordinator.

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

Student centric learning is achieved through following practices:

- Explanation of subjects in the class rooms with interactions as and when required
- Conducting remedial classes for slow learners
- Personal guidance to the students beyond contact hours.
- Organizing model making events to make the students understand technical concepts of various courses.
- Assignments on advanced topics of various courses, which enhances students self learning skills.
- Site visits, guest lectures, Webinars, exhibitions, competitions are arranged to improve practical knowledge.
- MoU with INSTRON, PMS Robotics, Intech Udyog, Sidhakal Engineers, NVDI Cuda learning Centre for supporting students in research projects.
- Providing add-on courses viz, Catia, Ansys, HyperMesh, Matlab, APART, SEED Infotech, Japanese Language Proficiency Test (JLPT) & Industrial Automation
- Use of virtual lab in all departments in collaboration with COEP.
- Support structure and systems available for teachers to develop skills like interactive learning, collaborative learning and independent learning among the students are depicted in Fig. 2.7
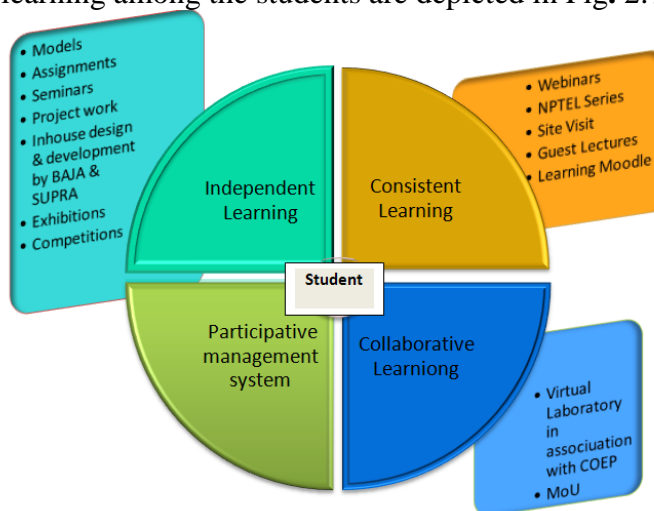
Fig: 2.7 Support structure and systems available for teachers

2.3.4 How does the Institution nurture critical thinking, creativity and scientific temper among the student to transform them into lifelong learners and innovators?

The Institute has always promoted critical thinking, creativity and scientific temper to be nurtured among the students. Abstract of these activities are as given below:

Critical thinking:
- Students are guided to take real life projects in final year.
- Students are encouraged to participate in Co-Curricular activities.
- Students are encouraged to select seminars based on burning topics.

Creativity:
- Institute motivates students to participate in technical events and competitions held in different colleges.
- Institute encourages students to participate in different exhibitions (CONSTRO, Auto Expo, etc.)
- Institute motivates students to participate in national & international Conferences, paper presentation organized by other Institutes, Project competitions, etc.
- Students are given freedom in planning, organizing, implementing and coordinating annual technical and cultural events.

Scientific Temper
- Institute encourages team BAJA to build all terrain vehicles and SUPRA to manufacture F1 car to compete at National level.
- Guest lectures are arranged for students to create interest in higher studies and decide possible career opportunity in Government and private sectors.
- Students are guided to publish paper in National & International conferences and Journals.
- Scientific temper is also inculcated through projects at UG and PG level.

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

Technologies available:
- Virtual Laboratories are used by faculties to enhance teaching of various topics related to subjects.
- E Journals like ASCE, Science Direct, are referred by faculties.
- Registered in swayam and online NPTEL certificate courses.
- Institute is registered for National Digital Library of India, an initiative taken by ministry of HRD in association with IIT Kharagpur.

Facilities provided by Institute to faculties:
In addition to the above technologies available in Institute, following facilities are also made available for the faculties
- Central and departmental library
- Seminar halls with LCD projector, TV, Multimedia facility
- Laptops, portable projector, computers & multimedia TV.
- Every classroom is well equipped with LCD projector and audio system.
- Desktop PC's with Internet facilities.

2.3.6 How are the students and faculties exposed to advanced level of knowledge and skills? (Blended learning, Expert lectures, seminars, workshops etc.)

Few of the activities are mentioned as below

Students:

- Different value added course like Catia, Ansys, Hyper Mesh, Matlab, Soft Skill and Aptitude training, Japanese Language Proficiency Test (JLPT) & Industrial Automation are conducted for students.
- Industry In-Plant and Internship programs are arranged.
- Industrial person are invited to deliver their expert lectures
- Students are encouraged to undertake vacational training in industries to get acquainted with industry work culture.
- Students also participate in intercollegiate project competitions at Institutes like IITs etc.

Faculties:

- Train the trainer programs are conducted for faculty members
- Faculty induction program, Faculty Development program, STTP, etc. are conducted for the faculties to enhance teaching skills.
- Faculties attend the workshop, Seminars, Conference to explore the new recent trends in industry.
- Faculties are motivated for research publications.
- Faculties are also encouraged to undertake research and pursue Ph.D at Institutes of National importance.

Blending of facilities that are used by faculty and students leads to advanced level of knowledge and skills.

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?

- The students have a differentiated contextual in terms of social and economic aspect. Measures are adopted by the Institute to deal with this aspect acclimatize the students with the nature of the professional course. The first year students are subjected to an orientation course in the first week of the semester and are helped to get accustomed with the Institute, course pattern etc.
- Further, teacher guardians are appointed for a group of students to address personal and academic problems. Counseling of the students on matters of apprehension is conducted by the teacher guardians.
- The Institute also conducts counseling sessions through professional counselor as and when required.
- The students can also freely approach any faculty/ HOD/Principal for guidance on different issues.
- Guidance related to placements, career planning, personality development and soft skills is imparted through various training programs through the training and placement cell.

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 faulty to adopt new and innovative approach and the impact of such innovative practices on student learning

Innovative Teaching Approaches:

- The Institute provides complete autonomy for every faculty in their course conduction. However in order to nurture innovation and instill

delight in learning several measures are taken. The faculties are encouraged to make use of modern teaching aids and ICT enabled teaching and participative learning.extensive use of various tool viz, NPTEL, Simulations, Virtual Labs, PPTs and Charts along with black board teaching is also effected, for demonstration of various concepts, working prototype models are used.

- The students are also encouraged for group learning through various group activities like assignments, mini projects etc.
- Every Department organizes Industrial visits for the students in order to witness the industrial practices and have an exposure to industrial culture .this helps the students to correlate the theoretical and practical aspects of the subject.

Efforts made by the Institution:
- The Institute makes arrangement to telecast special Webinars on the related topics.
- The Institution motivates all the faculty members to attend FDPs and Training programs, National and International Seminars, Conferences/Workshops organized by reputed Institutions.

Impact of the use of innovative teaching approaches:
- Increases clarity and understanding of the students.
- Instills confidence in the students.
- Students become self-learners.
- Improved academic performance of the students and increased placements.

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

- The Institute has a central library finely fortified with essential text and reference, books, periodicals, journals and e-resources in all the courses of all the programs. Apart from the central library every department houses separate departmental library well equipped with adequate number of text and reference books.
- Data base of all the books in the library is prepared and accessible through software KOHA
- Apart from text and reference books subscribed e-learning resources such as science direct are freely accessible to the faculty and students to enrich the teaching-learning experience.
- In order to aid the faculty and students to keep up breast with the latest developments a separate newspaper and magazines section is made available within the library premises.
- Large number of books on several competitive and entrance examinations such as GATE, GRE, TOEFL are also available to the students in the library.
- Question papers of the previous SPPU examinations are maintained in the library and are available to the students.
- A well-equipped reading room is provided for study purpose and is made available for the students 24 hours during examination period.
- Reprographic facility is made available.

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.

Yes, Adequate meticulous planning and resource mobilization is carried out before commencement to effective and effectual conduct of the academics. Various planning tools like academic calendar, specific subject teaching plans etc are deployed for this purpose. However the diverse nature of the students and the subjects as well necessitates different pace of teaching learning this at times leads to deviation from the teaching plan. The SPPU academic structure and the newly introduced continuous assessment system containing online and In-sem examination also poses difficulties in execution of the curriculum. Also the Institute understands the importance of extra and co-curricular activities in the overall development of the students and hence sufficient time is earmarked for such activities as well. The state government admission process and declaration of results also cause variability in the planning.

In order to cover the challenges mentioned above, additional lectures are planned in the timetable to make up the academic loss. Also the teachers arrange extra lectures as per the necessity of the subject and suitability. Remedial classes for slow learners and lateral entry students are also conducted.

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

The Institute believes in comprehensive quality of education and hence ensures that the feedback of the academics process if accounted for and appropriate and timely corrective measures are initiated. Daily lecture monitoring reports are prepared to ensure that all the lectures are conducted as per academic planning. The attendance of the students is closely monitored through ERP system and the monthly reports are generated and discussed in department meetings to initiate corrective action necessary if any. A consolidated report of such meetings is sent to the Principals Office. Every faculty prepares a course file which is evaluated by a college level committee. The feedback of the students regarding the faculty, teaching-learning process and other aspects of academic environment in the college is taken through computerized system. The suggestions of the student feedback are incorporated so as to make the academic system more responsive and amiable to the students need. The feedback from the parents is received though the parent-teacher meets. Feedback of the industry is also taken in industry-Institute interaction meetings. The academic performance of the students is evaluated by a progressive assessment system and various tools like unit tests, mid-term tests, prelims ,continuous assessments of the practical by mock orals, assignments etc. The performance of the students in the SPPU examinations is analyzed by results analysis and corrective measures are initiated.

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 the human resource (qualified and competent teachers) to meet the changing requirement of the curriculum.

Recruitment of faculty as per AICTE norms takes place annually. However, in case of vacancy arising in between interviews conducted by Institute throgh walk in interviews. Advertisement is given in local newspapers for walk in interview. Candidates also approach the department directly. Suitable candidate is selected by College selection committee as per following procedure

Recruitment of Faculty:
- The Institute ensures faculty strength and profile as per AICTE norms.
- Scrutiny committee is appointed at department level.
- The candidates who have first class throughout their academic career are called for interview.
- Demo lectures are conducted in the presence of senior faculties
- HOD interviews candidates to judge their technical and teaching skills.
- Suitable candidates are selected by interview panel

Retention Strategies:
College adopts following strategies to retain the faculties
- Salary/Payment as per AICTE norms.
- Time bound and performance based promotion policy.
- Performance based incentives.
- Felicitation based on performance and achievements.
- Maternity leaves given as per norms.
- Staff welfare through group insurance of all faculty and staff
- Deputation for higher studies, conferences, workshop/ seminars.

Table 2.6 Faculty Count

Highest Qualification	Professor		Associate Professor		Assistant Professor		Total
	M	F	M	F	M	F	
Permanent Teachers							
D.Sc./D.Litt.							
Ph.D	2	2	5	3	1	2	15
PG	-	-	1	-	59	67	127
Temporary Teachers							
Ph.D	-	-	2	-	-	1	3
M. Phil.	-	-	-	-	-	1	1
PG	-	-	-	-	37	31	68
Part-time Teachers							
Ph.D	1	-	1	-	-	-	2
M. Phil.	-	-	-	-	-	-	-
PG	-	-	-	-	26	3	29

Faculty Retention Ratio

Fig 2.8 : Faculty Retention Ratio

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, I.T, bioinformatics etc)? Provide details on the efforts made by the Institution in this direction and the outcome during the last three year to cope up with growing demands in specialized area, senior/ expert faculties are recruited through proper recruitment process.

- To cope up with growing demands in specialized area, senior/ expert faculties are recruited through proper recruitment process.
- The Institute has appointed highly qualified faculty to handle new and emerging subjects as proposed in the SPPU curriculum.
- Institute organizes expert lectures by inviting the experienced persons from industry, research academic Institutions for technical growth of faculty.
- Institute has a policy towards inviting senior professors / industry experts as visiting faculty to teach new programs and modern subjects whenever required.
- In addition to this, the Institute has initiated following resources to cope up with emerging frontiers (Table no 2.7 a).
- Institute has appointed adjunct faculties from industries (Table no 2.7 b).

Table 2.7 (a):List of resources to cope up with emerging frontiers

SN	Resources used	For which purpose
1	NPTEL	1. To make students visualize different types of flow 2. To help students differentiate between Eularian & Langranzian method for kinematic study
2	Virtual Lab	To explain students

		1. The working of total station 2. Determination of elevation of ground profile 3. Concepts of GIS & GPS
3	Webinar	Recent trends in technology
4	Moodle	MCQ practice
5	quizstar.4teachers.org	MCQ practice
6	Prezi Presentation	Teaching through presentation
7	www.slideshare.net	Open source presentation for students
8	My Examo (Moodle)	Conducting Mock online test , Practice Online Test, Sample GATE/General Aptitude/Technical Aptitude Test
9	Virtual Labs by MHRD	Material forming and Mould Design

Table 2.7(b): Adjunct/ Visiting Faculty

Department	No.of Adjunct / Visiting faculty	Area of Specialization
First Year	01	Chemistry
Electronics & Telecommunication	02	Communication
Instru & Control Engineering	02	Instrumentation & Control
Civil Engineering	06	Geo technical Engineering, Construction Management, Water resources Engineering, Environmental Engineering
Computer Engineering	03	Cloud Computing Java Development Software Engineering
Information Technology	03	Software Engineering, Information Technology Project Management, Distributed System
Production Engineering	03	Welding and Joining, Supply chain Management Metrology and Quality control
Mechanical Engineering	08	Design, Heat Power, Manufacturing

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

a) Faculties are nominated for various development programmes to enhance the teaching learning methodologies.

Table 2.8 Nomination to staff development programs during last 4 years

Academic development programs	Number of Faculty Nominated								
	FE	EnTC	Instru	Civil	Comp	IT	Prod	Mech	Total
Refresher courses	4	0	7	0	15	6	0	11	43
HRD programs	0	4	0	0	7	0	2	0	13
Orientation programs	0	15	4	0	1	2	0	3	25
Staff training conducted by the university	0	1	6	0	37	0	0	3	47
Staff training conducted by other Institutions	0	3	4	6	41	8	2	4	68
Summer/Winter schools workshops' etc	0	3	6	9	1	1	0	4	24

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b) Faculty training programs organized during the last four years to empower and enable the use of various tools and technology for improving Teaching-Learning.

- Teaching learning methods/approaches
- Handling new curriculum
- Content/knowledge management
- Selection, development & use of enrichment materials
- Assessment
- Cross cutting issues
- Audio Visual Aids/multimedia
- Open Education Resources (OER's)
- Teaching learning material development, choice and use

Institute encourages faculties for exploring the possibilities for better teaching learning process. To promote awareness of new ideas, the Institute deputes faculties for various training programs which empower them and students get benefited. By interacting with outside world faculties remain connected to resources and expertise which improve them in becoming good facilitator.

Faculty training programs organized and attended by faculty members are listed in Table 2.9.

Table 2.9 Faculty Training Programs

Sr. No.	Category	Faculty training program
1	Teaching learning	Effective teaching methodologies for Teaching &

	methods/approaches	learning for First Year faculties
		National Programme on Technology Enhanced Learning
		FDP on Outcome Based Education
		FDP on Matlab in department
		FDP on Advance Trends in Engineering and Education
		FDP on Teaching Learning Methodology
		Workshop by IIT Bombay
		Effective Teaching Methodology in F.M.II & Practical Detailing & Quote of H.W.R.E.
		Teaching techniques tips & teacher motivation
		Laboratory experiments in Fluid Mechanics II
		Recent Techniques in geography
		Design of Experiments in Engg& Tech
		International workshop on Learning environments, Innovations and ICT
		Research workshop on Wireless Mobile and sensor network (WMSN-2013)
		Workshop on Agile Technology
		Training program of 'Dynamic Website Designing'
		Open source Databases :Mongo DB and its implementations
		Faculty Development program on "Operating System Laboratory", "Cloud Infrastructure Services", "Introduction to Design of Algorithms, "Design and Analysis of Algorithms", Network Simulator 2
		Induction Training Program Phase I
2	Handling new curriculum	Teaching Strategies and Syllabus discussion on Engg. Mathematics – III
		Teaching Strategies and Syllabus discussion on Electrical Engineering &Advanced trends in Engineering and Education
		Syllabus revision of Electronics & Telecommunication subjects
		Syllabus Revision Workshop on "Drives & Control"
		Revision of TE Civil Engineering Syllabus-CBCS-2015 Pattern
		BE Civil Syllabus Drafting
		Revision of SE Civil Engineering Syllabus-CBCS-2015 Pattern
		Finalization of MCQ for Engg Geology (2016)
		Finalization of MCQ for Engg Geology (Dec 2013)
		Syllabus Revision workshop for various subjects of Computer Engineering
		One Day Workshop on Syllabus Revision of TE (Production/Production Sandwich/ Industrial

		Engineering)
		Syllabus Revision workshop for various subjects of IT dept
		Syllabus Implementation workshop on 'Finite element analysis'
		Advanced Trends In Engineering & Education
		Modernization In Mechanical Engineering Education
3	Content and knowledge management	Effective Management for smooth conduction of Engineering Mechanics Curriculum
		National Seminar on Research Methodology
		"Green Chemistry- A Real Time Analysis"
		Johnson Control Certified BMS course (Level 1)
		Raspberry Pi Concepts & Programming
		FDP at Pune Techtrol Pvt Ltd
		International Workshop on Information and Communication Technology
		A State Level Seminar on Embedded System and Robotics
		Microsoft Research Summit
		Soft Skill: A tool for personal and professional competence
		Introduction and Applications of Abacus
4	Assessment	Workshop on academic audit by NITTTR, Bhopal
		Workshop on "Rubrics for teaching & learning"
		Revision of Outcome Assessment Processes
		FDP on Analog CMOS Mixed RFIC Design (Remote Centre)(1)
5	Audio Visual Aids/Multimedia	ICTIEE 2017 informational Webinar
		Mitsubishi Servo Systems:MR-JE Feature
		NPTEL workshop
6	Open educational resources	Microsoft .NET Workshop
		Innovations in Constructions
		State Level Seminar on Embedded & Robotics
7	Teaching learning material development, selection and use	" Advanced Trends in Engineering and Education"
		FDP on "DSP" Organized by E & TC department In collaboration with UoP
		FDP on "Matlab and Toolbox" Organized by E & TC department College level FDP
		FDP on "Raspberry Pi"was Attended by 10 Faculty Members
		Workshop by IIT Bombay for flipped class rooms
		Innovations in Constructions
		" Advanced Trends in Engineering and Education"
		Logic Revolutions by Moshe Vardi
		Train The Trainer workshop

		Advances in IoT and Cloud Rubrics for Teaching and Learning Software and Application Development Track Advanced Trends in Engineering & Education Big Data Analytics using Hadoop Raspberry PI Concepts and Programming Induction Training Programme Phase-1 Android Apps Development Advanced Techniques to write and present research paper and patent
		Advanced Composite Materials
		Recent Trends in material science for Engineering and technology
		Advanced Trends in Engineering and Education 14th June 2016
		Modernization In Mechanical Engineering Education

c) Percentage of faculty invited as resources persons in workshops/ seminars/conferences organized by external professional agencies.

Faculties are participating in various seminars, workshops, conferences as participants/resource persons. The percentage of faculties in the last four years is given in the table below:

Table 2.10 Percentage of faculty invited as resources persons.

Sr No	Faculties as	Percentage (%)
1	Resource persons in Workshops / Seminars /Conferences organized by external professional agencies	11
2	Participants in external Workshops / Seminars /Conferences recognized by national/ international professional bodies	90
3	Presented papers in Workshops / Seminars / Conferences	60

Table 2.11: No. of faculties invited (went outside) as Resource person/Expert by external professional agencies during last four years

Sr. No.	Name Of faculty	At which place went as resource person	For which subject/ Event
1	Dr. B S Balapgol	COEP, Pune	Session chair for Int. Conference
2	Mr. V. S. Vibhute	PVPIT, Budhgaon, Sangli	Embedded System(STTP)
3	Mr. V. S. Vibhute	Ghangukana Thakur, Arts, Commerce, Science(BSc)	As a member of academic Peer
4	Mr. V. S. Vibhute	Dr. DYPIEMR, Akurdi	PCB Designing Workshop
5	Mr. V. S. Vibhute	BharatiVidyapeeth COE, Kharghar, Navi Mumbai	NBA advisory Member
6	Mr. V. S. Vibhute	MIDC ChakanTalegaon Industrial Area	Technical advisor for SCADA water distribution system
7	Mr. D. A. Bhagwat	Key Stone College of Engineering, Pune	Basic Electrical Engineering
8	Mr. D. A. Bhagwat	Pimpri Chinchwad College of Engineering, Pune	Basic Electrical Engineering
9	Dr.ManishaTanwer	D.Y.Patil Institute of Engineering,Management and Research, Pune	Photochemistry
10	Mrs. S. V. Pataskar	IEI Pune Local chapter	Paper presentation
11	Dr. N. S. Jain	K.J.Somaiya Coll of Arts Commerce & Science	Geology
12	Dr. (Mrs.) Alka Pisal	Amravati College of Engineering, Samgner	Structural Engineering
13	Mr Avadhut Kulkarni	Dhole Patil College of Engineering, Wagholi,Pune	Environmental Engineering
14	Ms. D.B. Gothawal	R C Patel Institute of Technology, shirpur, Dhule	Session chair for national level technical symposium Converges'12
		Sandip Institute of Technology and Research Center, Nashik	Session chair for cPGCON 2017
		Done online : PCCOE, Nigdi	Reviewer for cPGCON 2016
15	Dr. P. Malathi	Thakur College of Engineering and Technology, Kandivali(East), Mumbai	International Conference (ICWET-12) session chair
		AISSMS' Institute of Information Technology, Pune	PG project evaluation at e-PGPEX-2015
		Pimpri Chinchwad College of Engineering(PCCOE), Pune	Judge for national level paper presentation competition TECHLLIGENT-2012
		AISSMS' Institute of Information Technology, Pune	Expert lecture on "Signal Coding and Estimation Theory"
		Modern Education Society's College of Engineering, Pune	Expert Lecture on "Digital

			Communication"
		Padmashree Dr. D. Y. Patil Institute of Engineering and Technology, Pimpri, Pune	V. C. Nominee
		Pimpri Chinchwad College Of Engineering, Pune	Session Chair for the track "Control and Automation" (ICCUBEA-2016)
		Kirloskar Ebara Pumps Ltd., Pune	Energy Assessor
		PimpariChinchwad College of Engineering(PCCOE), Pune	VC-nominee
		RajarshiShahu College of Engineering, Pune	Faculty Orientation Workshop on Power Electronics
16	Dr. D. G. Khairnar	Kirloskar Ebara Pumps Ltd., Pune	Energy Assessor
		Pimpari Chinchwad College of Engineering(PCCOE), Pune	VC-nominee
17	Mr. S. G. Patil	Rajarshi Shahu College of Engineering, Pune	Faculty Orientation Workshop on Power Electronics
		Indira College of Engineering and Management, Parandwadi, Pune	Judge for IETE project competition
	Dr. Manish Sharma	Bharati Vidyapeeth, Pune	Wireless Networks
		Vishwabharati College of Engineering, Ahmednagar	Conference session chair
		Indira College of Engineering and Management, Parandwadi, Pune	Judge for IETE project competition
18 19	Mrs. Supriya Narwade	Dr. S. A. Patil, ARAI, Pune	Reviewer for M. Tech. course projects under VIT university, Tamilnadu
		SKNCOE, Vadgaon(Bk.), Pune	Guest Lecture on Embedded applications- case studies of Automotive applications
		Industry visit- Interaction about their requirement for ECU development	ARAI, Pune
20	Mrs. K. M. Jadhav	Indira College of Engineering and Management, Parandwadi, Pune	Electromagnetics
21	Dr. V A Kulkarni	College of Engineering Pune	Six Sigma
22	Mr J M Khade	Keystone School of Engineering, Pune	Corrosion Science
23	Mr J M Khade	JSPM Narhe Technical Campus, Pune	Material Science
24	Mr.A.J.Patankar	Nutan Maharastra Institute of Technology	Network Simulator
25	Mr.A.J.Patankar	PCCOE, Pune	Technical Reviewer for International conference ICCUBEA-2016

26	Mrs. M.A.Potey	PCCOE, Pune	Project Evaluator
27	Mr.K.D.Bamane	PCCOE, Pune	Judge in national conference CPGCON, 2015-2016
28	Dr. D. R. Panchagade	Keystone college of Engineering, Pune	FEM
	Dr. T. Dey	BARC, Mumbai	Fuel Cell
29	Dr. P. T. Nitnaware	Institute of Engineers Pune	As a judge for evaluation of Research Paper
		MIT, Kothrud, Pune	As a Judge at P.G. Conference
30	Mr. S. R. Deodas	Forbes Marshall	Further Study in Steam Engineering

2.4.4 What policies /systems are in place to recharge teachers? (e.g. providing research grants, study leave, support for research and academic publications, teaching experience in other national Institutions and specialized programs, industrial engagement.etc

To empower the teachers, the Institute has following policies; The Institute supports for professional development of the faculty and staff are highlighted below:

- Research Centers under SPPU
- Encourages lab assistants to complete UG and PG degrees
- Encourages faculties to pursue PhD
- The Institute deputes faculty for attending refresher courses, faculty development program and orientation program, conferences, seminars and training program organized by other Institutes, universities and research organizations.
- The Institute also conducts number of seminars, workshops and special motivational lectures for the benefit of the faculties.
- The Institute also conducts the special workshops for lady faculties.
- The Institute grants duty leaves according to the nature of work.
- Faculty is encouraged for publishing their research papers in national/ international journals and conferences.
- National and international level linkages have been established for teaching and/or research.

Study leave:

Following faculties availed study leaves for pursuing PhD.

Table 2.12 Study Leave

Sr. No.	Faculty Name	Date of Completion
1	Dr. Meena Kaulgi	2013
2	Dr. P. T. Nitnaware	2016
3	Dr. V. A. Kulkarni	2016

2.4.5 Give the number of faculty who received awards /recognition at the state, national and international levels for excellence in teaching during last network

Every year Institute gives PhD completion award, achievement outside college award, various group awards (D. Y. Patil Robotics Club, Illuminati Club, Supra Club etc) to the faculty for excellence in specific areas.

Institute has the tradition of motivating faculties for grabbing awards and recognitions at State, national and international levels. The outcome is highlighted in the following Table 2.13.

Table 2.13 Faculty Achievements

Sr. No	Name of the Faculty	Name of the Event/Conferred by	Awarded/ Recognized
1	Dr. B. S. Balapgol	Police Pravahva Apollo Institute	Guru Gaurav Puraskar
		International Institute of Education and Management	Best Educationist Award
2	Dr. Mrs. P. Malathi	Bharat VidyaShiromani Award	National
		Outstanding achievements in the field of Education by Indian Solidarity Council	National Mahila Rattan Gold Medal Award
3	Dr. Mrs. P. Malathi & Mrs. Usha Jadhav	Received award for Recognition of Leadership by Skyfiv on line based project	National
4	Mr. V. S. Vibhute	International Conference on Electrical, Electronics & Computer Science	Best Paper Award
5	Mrs. Rutuja Deshmukh	filed patent on "An Alteration in Turbo Encoder and its inter leaver for optimal transmission of high dimensional data" ,	National
6	Dr. Kailash Shaw	Short Term Training Program on Recent Advances in Machine Learning & Big Data	Appreciation as Resource Person
		Information Sciences Journal	Reviewer
7	Mrs. Phalke Dhanashree	cPGCON-2015	Reviewer
8	Mrs. Vaishali Kolhe	cPGCON-2016	Reviewer
		National conference on Inter-Disciplinary on Recent Trends in IT	Session Chair
9	Mrs. Deepali Gothawal	Sandip Institute of Technology and Research, Nashik	Session Chair- 2017
		cPGCON-2016	Reviewer
10	Mrs. Nilam Patil	Infosys Campus Connect Partnership	Bronze level certification 2016
11	Mr. Rahul Pawar	Infosys Campus Connect Partnership	Bronze level certification 2016
		Infosys Campus Connect Partnership	Bronze level certification 2015
12	Ms. Vishkha	Infosys Campus Connect	Bronze level certification

	Metre	Partnership	2016
13	Ms. Shraddha K. Popat	Rank Certificate for ME -2014 Examination	9th University Topper
14	Mr. Suraj Kurde	Faculty Enablement Program , Infosys Campus Connect	Received A grade certification
15	Mr. Pramod Deshmukh	International Journal of Computer Trends and Technology	Editorial Board Member
		Internal Journal of Network Security	Reviewer
		International Journal of Computer Visio and image Processing	Reviewer
16	Mr. Vivek Patil	Faculty Enablement Program , Infosys Campus Connect	Received A grade certification
17	Mrs. S. V. Pataskar	Civil- PGCON 2014 and 2015 at Dr DYPIET, Pimpri and MIT respectively.	Session Chair
		National Conference on Emerging Trends in Architecture, Technology & Allied Fields, by D Y Patil College of Architecture, Akurdi,	Jury member
18	Dr. Alka Pisal	Cambridge University Press	Reviewer of 3 Chapter of book 'Strength of materials'
		International Conference on Transformation in Engineering Education	Reviewer for papers
		International Conference on Emerging Technology in Structural Engineering at KDKCE College, Nagpur	National Advisory Committee member
		Pravara Journal of Science & Technology	Reviewer for papers
		Vibration control of structure using tuned mass friction Germany, Lap Lambart	First Author of the Book
19	Mr. A. J. Patankar and Mrs. Swati G. Kapse	cPGCON conference held at Matoshree College of Engineering, Nasik	"Best Author" award
20	Ms. Disha Sengupta	International Journal of Advance Foundation and Research in Computer (IJAFRC).	Designated as Technical Reviewer
21	Ms. Ashwini Abhale	Member of Technical Program Committee (TPC) in Springer	Technical Reviewer
22	Mrs. Amita Jajoo	Distinguish Facilitator, Campus Connect, Infosys Limited	Runner up
23	Dr.(Mrs.) Neeta Deshpande	CPGCon, Pune University	Reviewer/Session Chair
		ICCUBEA,Pune	Reviewer
		IEEE Conference at PCCOE, Pune	Reviewer/ Session Chair
24	Dr. V. A. Kulkarni	ICTIEE, 2017 & European Journal of Engineering education, Taylor and Francis	Reviewer

		SPPU	Member of Financial review Committee for Travel Grant to Researchers
25	Mr. Sushant Pande	SAE SUPRA 2015	DRONACHARYA Award (Best Faculty Advisor)
26	Mr. Samadhan Bhosale and Mr. Laxman Khose	International conference at MITSOM, Kothrud 2017	Best research paper award
27	Mr. Sandip Desai	6th international and 27th all India manufacturing technology, Design and research conference (AIMTDR 2016) at COE, Pune	The best paper of session

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. Yes, the Institute evaluates teachers by taking feedback from students and external peers once in a semester, feedback from students is taken using online specially

Yes, Institute evaluates teachers by the student's feedback& peers feedback.
- The committee of Principal, HOD/Section heads is formed to analyze the feedback.
- Peer feedback of the faculty members is taken annually based on self-appraisal.
- The strengths and areas of improvement are identified & suggestions are given to the concerned faculty
- Additional support/guidance is provided in following ways –:
  1. Mentoring by Senior Faculty
  2. Deputation for Faculty Development Program
  3. Deputation for STTP conducted by NITTTR
  4. Effects and improvements due to feedback
- Also the teaching load is allotted to faculties before commencement of semester so that they can prepare well in time & can seek guidance from senior faculties of the department
- Faculties are encouraged to perform all practical themselves before start of semester

2.5 Evaluation Process and Reforms

2.5.1 How does the College ensure that all the stakeholders are aware of the evaluation processes that are operative?

College takes following efforts to ensure that the faculty members, students and parents are aware of the evaluation processes

- Induction programs are organized for the newly joined faculty, to understand them the evaluation processes of SPPU.
- As the Institute is affiliated to SPPU, Pune, guidelines are notified to the students and faculties on the college website www.**dypcoe**akurdi.ac.in
- **First Year Engineering Induction Programme:** On the first day of college in first year Engineering (FE), an induction program is organized for students and parents in which FE Dean informs the students about the evaluation & assessment process in presence of Principal and Campus director.
- **ERP Portal:** The Institute ERP portal (http://app.cloudeducationerp.com/dyp) displays the notices regarding changes in evaluation process time to time.
- **Department Level:** The HODs addresses the students at department level to make them aware of the evaluation & assessment processes as well as it is informed by respective class teachers.
- Parent teacher meeting is being organized in every semester, and the evaluation processes explained to parents by HOD / Senior faculties.

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?

A) University Level
The Institute follows all the evaluation reforms prescribed by the SPPU. Following are the major evaluation reforms introduced by the University
Appointment of single CEO-
- The Institute has appointed a senior and experienced faculty member as Chief Examination Officer (CEO) as per the directives of university.

SPPU Examination Pattern
The examination structure of SPPU is given in following table. In SPPU evaluation pattern contains in-semester examination and end semester examination per semester.

Table 2.14 Examination Structure of University

Semester -I

Year	SPPU Exam		Maximum Marks	SPPU Exam	Maximum Marks
F.E.	Phase-I (25M)	Phase- II (25M)	50	End semester	50
S.E.	Phase I		50	End semester	50
T.E.	In – semester		30	End semester	70
B.E.	In – semester		30	End semester	70
M.E.	In – semester		50	End semester	50

Semester –II

Year	SPPU Exam		Maximum Marks	SPPU Exam	Maximum Marks
F.E.	Phase-I (25M)	Phase- II (25M)	50	End semester	50
S.E.	Phase-I (25M)	Phase- II (25M)	50	End semester	50
T.E.	In – semester		30	End semester	70
B.E.	In – semester		30	End semester	70
M.E.	In – semester		50	End semester	50

- **Credit system**- As per the SPPU guidelines credit system has been introduced for the UG and PG Programmes

B) Institute Level

- Institute organizes mock online examinations in every department
- Unit tests, tutorials, mid-semester examination and mock practical/oral examinations.
- Institute also conducts project competitions and soft skill development competitions for the students.
- Quizes are taken in classes based on online examinations for FE & SE
- Pedagogical activities are undertaken in classes related to subjects

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?

University

- The Institute has examination cell comprising of senior faculty from each department for smooth conduction of the examination.
- The examination cell meets periodically to discuss all the examination related issues.
- Progressive assessment of lab work, project and seminars are done by the faculty.
- Final year term work is jointly evaluated by internal and external examiners.
- For smooth conduction of University theory examination, an internal vigilance squad comprising of senior faculty members is appointed.

- CCTV cameras are used for monitoring the online examinations.

Institute

- CEO is appointed at Institute level to conduct all examination according to university instructions as well as for convocation.
- Examination coordinators are appointed for each department of Institute for proper conduction of internal and external examination. The results of all internal examination are displayed on notice boards.
- CEO, HOD and examination coordinator of departments make sure the completion of term work, conduction of mock practical and theory examinations, Submission of term work marks based on Progressive Assessment Sheets, Assessment of in semester examination answer sheets, conduction of online and theory examinations.
- For In Sem examination, there is CAP center at Institute level.
- At Institute level, effective implementation of tutorial and mid-semester test takes place and results are declared within three to four days. The students can see their results on notice boards and evaluated answer sheets and discuss the same with concerned faculty.
- Student can verify their performance and faculty also make use of this analysis for student's evaluation.

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

Formative assessment approach

- The Institute conducts assignment, unit tests, quiz competitions etc.
- Institute conducts Online Mock tests.
- Institute also organizes projects competition, paper presentation competition, poster presentation, workshops, Seminars etc. & also motivates the student to participate in similar events outside the Institute.
- Institute arranges Industrial visit for the students and asks the students to submit the visit report which is also evaluated for term work marks.

Summative assessment approach

- It is clubbed with other parameters such as unit tests, assignments/tutorials, orals, guest lecture attendance etc. is carried out for award of term work marks to the student (Fig 2.8)
- Project work is also evaluated through demonstrations & presentations in presence of industry experts.
- The University conducts end semester examination of theory and practical/oral as mentioned in syllabus structure.

Impact:

- Mock Online Test helps the students to practice online questions similar to examination system that helps to increase confidence within students related to their preparation and timely completion of examination.
- Student examination performance is enhanced
- Also, students' Punctuality, attendance, etc are improved.

- Mock Orals help the students to face University level Oral/Practical examination with confidence.

2.5.5 Detail on the significant improvements made in ensuring rigor and transparency in the internal assessment during the last four years and weightages assigned for the overall development of students (weightage for behavioral aspects, independent learning, communication skills etc.

- Complete transparency in the internal assessment of student at the time of each practical.
- For internal assessment of students unit tests, mock oral, regularity of the student (attendance), personality, ethical values, logic, professionalism and overall perception of the students are taken into account.
- All faculties update students attendance in ERP on daily basis which are available to all students to view through their ERP account. This helps the students to ensure their attendance.
- Students' attendance is displayed on notice boards at the end of every month and once at the end of semester.
- Term work assessment is a continuous process which keeps a track of consistency of the student with respect to his performance of experiments during the practical session.
- The transparency in term work assessment is ensured by informing the student about assessment process in the beginning of the semester and entering the marks in progressive assessment sheets in the presence of student.

2.5.6 What are the graduate attributes specified by the Institute/affiliating university? How does the Institute ensure the attainment of these by the students?

The university has specified following graduates attributes.
1. Engineering knowledge
- Apply the knowledge of mathematics, science, Engineering fundamentals and an Engineering specialization to the solution of complex Engineering problems.

2. Problem analysis
- Identify, formulate, research literature, and analyze complex Engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and Engineering sciences.

3. Design/development of solutions
- Design solutions for complex Engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

4. Conduct investigations of complex problems
- Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

5. Modern tool usage:
- Create, select, and apply appropriate techniques, resources, and modern Engineering and IT tools including prediction and modeling to complex Engineering activities with an understanding of the limitations.

6. The Engineer and society
- Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional Engineering practice.

7. Environment and sustainability
- Understand the impact of the professional Engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

8. Ethics
- Apply ethical principles and commit to profession al ethics and responsibilities and norms of the Engineering practice.

9. Individual and team work
- Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

10. Communication:
- Communicate effectively on complex Engineering activities with the Engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

11. Life-long learning
- Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

12. Project management and finance
- Demonstrate knowledge and understanding of the Engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

Measures taken at Institute level to attain graduate attributes

The wide spectrum of events undertaken by the Institute related to one or the other graduate attributes. These are given as below

Table 2.15 Measures taken at Institute level to attain graduate attributes

Graduate Attributes	Measures to attain
Engineering knowledge	Class room teaching
Problem analysis	Unit tests Seminars Internal & SPPU exams
Design & development of solutions	Projects Participation in competitions Research projects
Conduct investigations of complex problems	projects
Modern tool usage	Projects Industrial visits

The Engineer and society	Social events Extracurricular activities Research projects NSS activities Rotract Club
Environment and sustainability	Research projects
Ethics	Projects Extracurricular activities Guest lectures
Individual and team work	Projects Co & Extracurricular activities Students clubs
Communication	Orals, practicals students clubs Seminars and projects
Life-long learning	Add on courses Internship programmes Industrial Projects
Project management and finance	Industrial Projects Co-curricular activities

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

At Departmental Level:
- The continuous evaluation of students is carried out by faculty in terms of theory lectures, labs, assignments etc. The term work marks are allotted based on defined strategies and displayed on notice board. Query if any is discussed with faculty and HoD.

At Institute Level
- The committee constituted by the Principal of the Institute consisting of senior faculty members takes care of the grievances regarding the evaluation process.
- In case of any discrepancy in University result sheet, Institute verifies the details in available records at the Institute and guides the student with possible solution at Institute level or refers him with proper document to the university.
- After conduction & evaluation of the test, the subject teacher distributes evaluated copies of their test papers to the students. The solutions for the question paper are discussed in the class. The students can approach the teachers in case they need a clarification on the award of marks and scheme of valuation discussed in the class. The teacher clarifies doubts regarding evaluation.

At University Level
- Issues related with mistakes in filling examination forms, conduction of online examination & in-semester examination Institute refers the case to University through proper channel and helps the students in resolving the same.

In case of any problem at end semester examination assessment, the university has made provision of applying for the photocopy of the evaluated answer sheets. This gives an opportunity to the students to get their answer sheets rechecked & revaluated if found incorrect by sticking to the university guidelines.

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 staffs are made aware of these?

Yes

Learning Outcomes:
- Consigning Mathematical, scientific and Engineering fundamentals for Engineering applications.
- Imparting long lasting solutions to the real life problems by analyzing , designing Engineering system according to societal needs
- Adapting global changes through professionalism, multidisciplinary approach, and ethical behavior for workable and economically feasible Engineering solutions.
- Developing interpersonal skills for teamwork, management and leadership qualities which will help in self directed continuous improvement and commitment to quality of lifelong learning.
- Succeeding in competitive examinations like GATE, GRE, MPSC etc.

Awareness of learning outcomes
- Institute has clearly defined learning outcomes on academic documents given to faculty, students and parents.
- Explanation of Course objectives given to students before commencement of teaching.
- Learning outcomes are notified and made available on website.
- Learning outcomes are notified and made available on College ERP System.
- Communicated to students through Notice boards..

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 student's results/achievements (Programme/course wise for last four years) and explain the differences if any and patterns of achievement across the programmes/courses offered.

Academic performances of the students are monitored by University results. Result analysis is carried out by the Institute for each program and communicated to parents and students at department level. The monitoring and communication process is briefly explained as below:
- Result analysis contains comparison of results for last three years for every subject in the Institute. Trends of results at University level are

also taken into consideration and extra efforts are taken to improve the performance of students.

- Students' feedback on the theory examination is taken to understand difficult topics. Extra emphasis is given to these topics
- Departmental Result is made available on Department Notice Board
- Phone calls are made by Mentors/Teacher guardians to parents communicating the academic performance
- Unit test marks and attendance are also communicated to parents by Sending letters and at the time of Parent Teacher Meets
- Student absenteeism in theory and practicals is reported to parent through ERP System before getting reflected in term work marks

Result Analysis of all branches for last three years.

Table 2.16 (a) : SE Passing percentage of last 3 years

SN	Department	AY 2013-14	AY 2014-15	AY 2015-16
1	Computer	62.3	61.5	63.8
2	IT	51.36	62.50	32.89
3	Mechanical	65.5	60.35	40.8
4	Civil	57.05	57.62	43.05
5	E&TC	56.08	42.46	33.71
6	Instru and Control	45.83	43.05	42.85
7	Production	56.33	62.16	57.33

Table 2.16 (b): TE Passing percentage of last 3 years

SN	Department	AY 2013-14	AY 2014-15	AY 2015-16
1	Computer	56.84	64.9	60.74
2	IT	52.59	70	55.86
3	Mechanical	47.59	70.85	53.57
4	Civil	41	47.62	50.67
5	E&TC	52.60	60.74	56.84
6	Instru and Control	46	52.17	53.62
7	Production	50.74	54.11	66.67

Table 2.16 (c): BE passing percentage of last 3 years

SN	Department	AY 2013-14	AY 2014-15	AY 2015-16
1	Computer	98.73	95.65	98.6
2	IT	97.43	98.26	87.89
3	Mechanical	88.23	94.02	82.58
4	Civil	92.1	97.56	88
5	E&TC	95.65	90.78	74.51
6	Instru and Control	55	94.73	88.31
7	Production	94	100	98.68

Placement Record

Axis Title

	2012- 13	2013 - 14	2014 -15	2015 - 16	2016-2017
	208	319	346	548	251
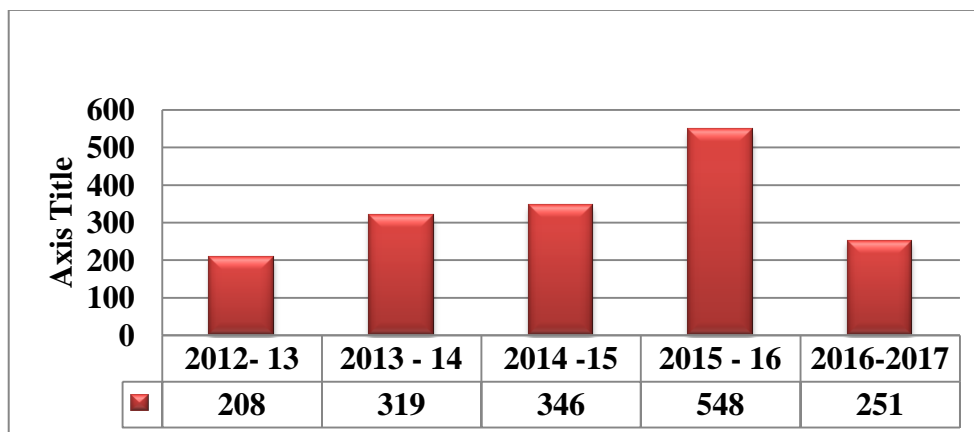
Fig 2.9 placement records

*Campus recruitment of 2017 graduating batch is still in process

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 Institute aims to facilitate the achievement of the intended learning outcomes through teaching, learning and assesment strategies. this are very well depicted in Fig. 2.10, 2.11 & 2.12.

Teaching Strategies:

Academic Calendar and Department Timetable
- Academic calendar is prepared before every semester and circulated to department, on the basis of that Timetable is prepared by respective Departments

FDP/STTP for updating Technical Knowledge
- Faculties are technical assistant are encouraged to attained FDP/STTP to update their technical knowledge
- FDP/STTP for updating Technical Knowledge

Lesson Scheduling and Lesson Planning
- Lesson schedule is prepared by faculty in ERP and lectures are planned according to the Lesson schedule

Course files and innovative Study material
- Course files are prepared as per curriculum with handwritten notes question banks and many more. Also faculties are well equipped with study materials like PPTs, Videos, and NPTEL etc.
- Course files and innovative Study material

Class room teaching and Laboratory assignments
- Classroom teaching and laboratory assignment are conducted by experienced faculty members

Fig 2.10: Teaching Strategies

Learning Strategies:

Fig: 2.11: Learning Strategies

Assessment Strategies:
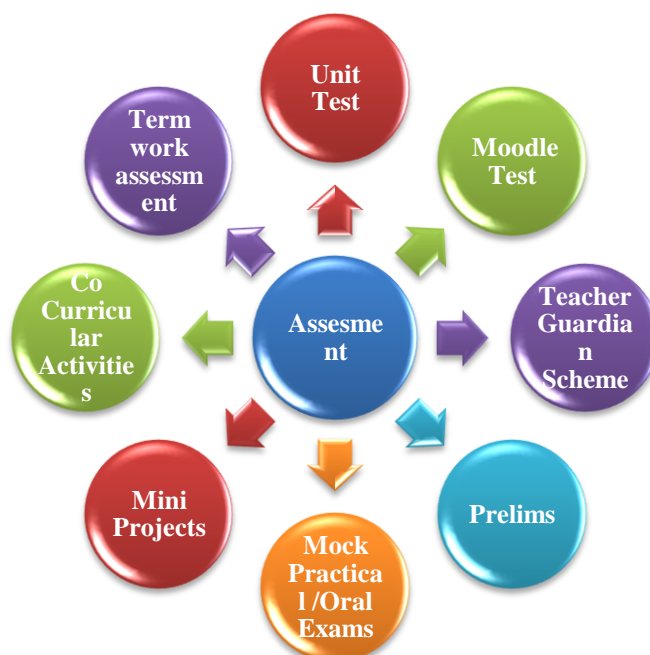
Fig: 2.12: Structure of assessment techniques

- Academic Calendar is prepared well in advance before the commencement of the session/semester. The calendar outlines the various activities for entire semester. It includes academic activities like Unit tests, in semester exam, Practical Exams, Theory Exam, Mock practical, Remedial classes etc. Also planner includes other activities like Guest Lectures, Workshops etc.
- The head of the department finalizes the course allocation for the faculty members based on their choice and area of interest/expertise. Timetable in-charge of the department prepares the timetable as per the norms prior to the commencement of the semester.

- The faculty before the commencement of semester prepares the lesson plan, indicating the topics to be covered lecture wise for each subject and follow it during semester.
- Laboratory plan is also prepared and displayed on notice board.
- All faculty members cover more than 95% syllabus for theory and 100% practical by the end of the semester.
- Faculty members prepare course file and maintain throughout the semester.
- Course file includes Course structure, University syllabus, Lesson Plan, course objectives and outcomes. It also includes Unit test records, mid semester exam question paper and result, university question papers and solutions, university result of the course and its analysis, question bank etc.
- Faculties keep on updating their knowledge through FDP, STTP, Seminars and Conferences.
- Learning is also enhanced by skill development workshops, industrial visits, internships, audio-video aids, etc.
- Along with the mandatory university assessment, student's creativity and initiative is examined through co-curricular activities such as mini-projects, project competitions, etc.
- Lab manual is prepared for each laboratory and is used as a reference by the students.
- Mock practical exams are conducted for students for all practical.
- Number of lectures is monitored fort nightly and Syllabus Coverage is strictly monitored monthly.
- Unit tests are conducted for Theory and Mock exams are conducted for practical.
- Student can refer Question bank for the course and also go through the university question papers and solution of it for the preparation of the examination.

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?

Institute takes initiatives to enhance the social and economic relevance through various cells.

Training and placement Cell
- Coordinates to conducts Campus drives for various companies
- Provides Soft Skill training for students
- Conducts company specific workshops
- Motivational talks for students for GATE preparation
- GRE, TOFEL coaching
- Personality Development Programs
- Industry-Institute interaction Meets

Entrepreneur Development Cell
1. Institute has formed entrepreneurship cell to develop the awareness about self employment.

2. Workshop/ Seminar/ Conferences are arranged to develop co-curricular skill.

Research and Development Cell

1. Institute motivates students to participate in different competition such as SUPRA, ,BAHA, ROBOCON, Rotract, Tantrotsav and other technical events
2. Various technical competitions viz. paper presentation/ workshops/ seminar/ project competition/ Quiz are conducted.
3. Students are encouraged to attend research project competition organized by SPPU like AVISHKAR.
4. Institute as membership of different professional bodies such as ACM student chapter, SAE, CSI etc

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

Institution collects the data of student's performance and analyses on the basis of following parameters.

1. Unit test, Class test, Tutorials and moodle tests are conducted regularly for every subject.
2. Lab term work, progressive assessment, Mock practical/oral are major parameters in analyzing the practical knowledge.
3. Seminar presentation and Project done by students is also used as a method to analyze the student learning outcome.
4. Results analysis after every university examination is done.
5. Feedbacks given by employers, Parents are analyzed.
6. Teacher Guardian Scheme

Following are the barriers of learning outcomes:

1. Communication skill
2. Aptitude and Reasoning trainings
3. Slow Learners
4. Emotional, mental and physical health concern
5. Economic Background
6. Less Confidence

Institute has taken following steps to overcome barriers of learning outcomes:

1. Providing English Language Training through sessions by Professionals
2. Aptitude trainings by professional coaching.
3. Providing Learning modules
4. Remedial classes for slow learners
5. Teacher Guardian Schemes
6. Encouragement for participation in extracurricular activities
7. Personal Counseling of students

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

Academic quality Improvement cell

Department has formed Academic quality Improvement cell to improve academic through daily monitoring. Cell consists of Program coordinator, Module coordinator, Course coordinator, senior faculties. Role of the cell is as mentioned below:

- Weekly meeting to take review of academics
- Monitoring lectures and practical daily
- Course files checking
- Lab index, Lab manual, progressive assessments file checking
- Attendance book checking (fort nightly)
- Syllabus coverage checking
- Monthly report checking
- Communicating daily student count to Vice Principal

Laboratory

Lab manual is prepared for each laboratory and is used as a reference by the students. Mock practical exams are conducted for students for all practical. Unit tests are conducted for Theory and Mock exams are conducted for practical. Student can refer Question bank for the course and also go through the university question papers and solution of it for the preparation of the examination.

Methodology for weak students and Bright students Remedial and makeup classes

- Department is organizing remedial classes for weak students.
- Web-based Learning:
- The Institute has created internet facility with computer terminals facility to promote and motivate students for self-learning.
- Technical Symposiums:
- Organizing annual events like programming and Quiz contests
- Motivating students to participate in inter-college events for paper presentation and project exhibitions.

Teacher Guardian Scheme

Teacher-Guardian Scheme is introduced to provide academic and personal guidance to the students. It plays a significant role in ensuring the student's welfare and their academic progress.

- Every faculty member is allotted 15 to 20 students to whom he/she acts as guardian.
- The faculty identifies the academic and personal problems of his/her ward.
- The progress made by the student during all semesters is recorded.
- Regular counseling sessions and interactive sessions are carried out.
- Parent Teacher meet is schedule periodically to make aware parents regarding the overall performance of the students.

Collaborative Learning and Effective Teaching

- Experts/Eminent personalities are invited to provide lectures / seminars for students. Department arranges guest lecturers of eminent persons from Industry, Academic and Research Institutions periodically.

Eminent experts are invited from academia /organization/industries for seminar, workshop, conferences etc.

- Faculty members attend Faculty Development Programs (FDP) to enable faculty to effectively translate the curriculum. Faculty members are attending various workshop, seminar, conferences.

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.

Yes, the Institution and individual teachers use assessment/evaluation outcomes as an indicator for evaluating student performance, achievement of learning objectives and planning.

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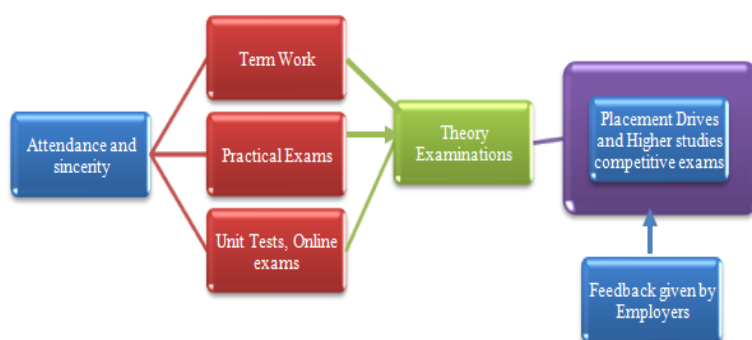
Fig: 2.13: Achievement of learning objectives and planning

1. The overall performance, regularity and sincerity of the students matters as an indicator for evaluating student performance, achievement of learning objectives and planning.
2. The individual teachers use the result of
   a. Unit tests
   b. Term Works
   c. Practical Exams
   d. Online Exams
   e. University theory Exams

Week students are identified and remedial classes are organized for them.

3. Institute also uses placement record and higher studies record as indicator of student's performance.

1. Institute Placement and entrepreneurs record is an indicator and best example of evaluating student performance as depicted in figure 2.18
2. Entrepreneur Record

Table 2.17:Entrepreneur Record

Academic Year	No. of entrepreneurs
Year 2013-14	3
Year 2014-15	6
Year 2015-16	11

CRITERION III
Research, Consultancy and Extension

3.1 Promotion of Research

3.1.1 Does the Institution have recognized research center/s of the affiliating University or any other agency / organization?

Yes, The Institute has recognized research centers in two departments, affiliated to Savitribai Phule Pune University, Pune. The recognitions of these centers are as follows.

Table 3.1 Research centers recognization

SN	Department	Recognition Details
01	Civil	CA/421 w.e.f. 02/03/2016
02	ENTC	CA/421 w.e.f. 02/03/2016

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 IRC cell to monitor research issues. The IRC cell promotes research activities; implements research policies and develop MOU with various Institutes and Industries. The composition of IRC cell consists of Chairman, research Head and department wise faculty members. In view of the above goals following faculty members from the department & sections are appointed to take the research activities forward to a higher level.

- Dr. B. S. Balapgol - Chairman
- Dr. Mrs. P. Malathi – Vice Chairman
- Dr. Mrs. Alka S. Kote – Dean R & D
- Dr. Alka Pisal – Member (Civil Department)
- Dr. P. T. Nitnaware –Member (Mechanical Department)
- Dr. Kailash Shaw – Member (Computer Department)
- Dr. Manish Sharma –Member (Electronic & Telecommunication)
- Mr. S. S. Sarnobat – Member (Production Department)
- Mr. N V Mane – Member (Instrumentation and Control)
- Mr. K D Bamne – Member (Information Technology)
- Mr. Pranjali Shinde – Member (First Year Dean Office)

Major recommendations of the IRC are as follows

- To identify core research department wise.
- To upgrade research laboratories.
- To enhance filing of patents.
- To increase research funds from various funding agencies.
- To increase MoUs with reputed Industries and organizations.
- To improve Joint research with industries.
- To encourage UG and PG students to work on real time projects from industries.

Identification of research areas

IRC has identified various key research domains

Table 3.2: Identification of research areas

SN	Department	Areas of research activities
01	Civil Engg.	Environmental Engineering, Construction & Management, Water Resource Engineering, Structural Engineering, Geotechnical Engineering, Transportation Engineering
02	Mechanical Engg.	Hydrogen CNG Blends for SI Engine, Computational Fluid Dynamics (CFD), Heat and Mass Transfer, Fuel Cell, Fluid Dynamics, Thermal Engineering, Process Equipment Design, Composites
03	E&TC Engg.	Advanced communication technologies, Signal Processing, Image processing, Intelligent control, Embedded systems, VLSI Design and Technology
04	Instru.	Instrumentation and Measurement, Process control and automation, embedded systems, biomedical instrumentation, control system
05	Computer Engg.	Data Mining, information Retrieval, Database, Image Processing, Multi-media Security
06	IT	Networking, Information Security, Data Mining, Cloud Computing, Information Retrieval
07	Production Engg. (Sandwich)	Manufacturing Processes, Metallurgy, Metrology, Quality control and Assurance, CAD/CAM/CAE,
08	First Year	Fluid mechanics, Biomechanics, Functional Analysis, Linear Algebra, Solid state physics Biogas gassifier

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**
- **Timely availability / release of resources**
- **Adequate infrastructure and human resources**
- **Time off, reduced teaching load, special leaves, etc to teachers**
- **Support in terms of technology and information needs**
- **Facility timely auditing and submission of utilization certificate to the funding authority**
- **Any other**

The IRC evaluates & encourages research activities and implements the suggestions/feedback on regular basis. The following research facilities are integrated for research work:

- The College gives full authority to Principal Investigator (PI) to utilize the sanctioned aMoUnt for completion of research work.
- Research laboratories are fully equipped with state-of-the-art equipments.

- Sabbatical leaves are granted to faculty members for the completion of their research work/PhD.
- College organizes expert Lectures, Trainings, Workshops, Conferences, FDP etc. for encouraging and motivating innovative ideas for research which are useful to the society.
- College provides digital library, e-journal services to understand the latest technology existing across the globe which will benefit teachers and students.

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

Institute has association with various Professional/Technical Bodies in the form of Student/Institute Chapters as mentioned below

Table 3.3 Student Chapters of Professional bodies

Sr. No	Name of the Department	Student Chapter	Institute Chapter
1	Civil Engg	IEI & IPA	ISTE, QCFI
2	Mechanical Engg	IEI & QCFI	
3	Production Engg	PESA	
4	Computer Engg	SEM, IEI & CSI ACM-W	
5	Instrumentation Engg	ISA	
6	E&TC	IETE	

Faculty members motivates the students to refer quality publications for their project work in UG and PG. Publication of the project/research work of the students is encouraged in quality journals. Various research papers are referred as case study for the respective subjects. College faculty members and students have accessed virtual lab of COEP, which adds to the betterment of the research culture of this college. College has received recognition from Society for Educational and Entrepreneurial Development (SEED) and Indian Society for Technical Education (ISTE) for its efforts.

An active astronomy club 'Illuminati' organizes various events such as telescope model exhibition, sky gazing trips, guest lectures and workshops giving the most needed exposure towards Astronomy and Cosmology.

A team has been constituted at the college level for awareness generation about patents. Under these efforts, faculty and students are trained and informed about the importance and the process of filling patents.

Department of Mechanical Engineering has student chapter of IEI and is actively involved in conducting Robotics workshop, National level Project Competition. Mech Engg dept has conducted value added course in 'Engineer Employability' under the MOU with Engineering Cluster Pune, an 'Expert Industrial Robotics Workshop on Live Robots' and two students have been placed under the MOU with PMS Robotics Research Center Pune. Seven students have done internship under the MOU signed with Indtech Udyog. Four more students have done internship and two students were placed under the MOU with Sidhakala Engineers, and three students have been placed under the MOU with Vedanta Metal Products. Value added courses have been conducted in CAD/CAM/CAE under the MOU with IFS Academy. UG/PG

students are undertaking projects sponsored by Industry as well as in association with organizations like DRDO. This gives real time exposure and hands-on training to faculty members as well as students. Technology Entertainment and Design (TED)-Talks are shown to the students to stir the curiosity in inter-disciplinary subjects/research.

Civil Engg department initiated proposal to fetch membership of ASCE. MoU with 'Waingade Enviro & Agro Solutions' and 'Constrologix' are in pipeline for research and development.

Department of Instrumentation & control has an International Society of Automation (ISA) student chapter. The students can access 40 plus pre-technical web seminars and get certified. This department has also signed MoU with Instron Automation Pvt. Ltd. for running certified training course in Industrial Automation using PLC and SCADA.

Department of Information Technology initiated MoU with Zensar Technologies Ltd. Pune, for promoting research. Students had developed smart attendance software which is being appreciated by different organizations. Department of Computer Engineering have MOUs with Infosys Technologies, Opulent Technology Ltd. Every year department is organizing project competition for Final year students and also encourages them to publish their research work in quality National / International journals and conferences.

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.)

Following Faculty Members are involved in Guiding PG and Ph.D students.

Table 3.4: Faculty members as research guides

SN	Name of Department	Name of the Faculty Member	No. of Research Scholars
List of Ph. D Guides			
01	Civil	Dr. A. S. Kote	6
02	Civil	Dr. B. S. Balapgol	Yet to enroll
03	E & TC	Dr. Mrs. P. Malathi	2
04	E & TC	Dr. D. G. Khairnar	Yet to enroll
List of PG Guides			
01	Civil	Dr. B. S. Balapgol	1
02	Civil	Mrs. S. V. Pataskar	3
03	Civil	Mr. S. J. Mane	4
04	Civil	Mr. Sudhanshu Pathak	1
05	Civil	Mrs. Ashwini Patil	2
06	Civil	Mrs. Nilam Phadtare	2
07	Civil	Mrs. Sadhana Shalu	2
08	Civil	Col. B. K. Bhonde	1
09	Civil	Dr. N. S. Jain	1

10	E & TC	Dr. D. G. Khairnar	2
11	E & TC	Dr. Mrs. P. Malathi	4
12	E & TC	Dr. Manish Sharma	4
13	E & TC	Mrs. Aparna Shinde	3
14	E & TC	Ms.Usha Jadhav	3
15	E & TC	Mrs. Trupti R. Wagh	1
16	E & TC	Mrs. Sayali Mane	2
17	Mechanical	Dr. D.R. Panchagade	2
18	Mechanical	Dr. T. Dey	6
19	Mechanical	Prof. S. R. Deodas	6
20	Mechanical	Prof. A. K. Battu	3
21	Mechanical	Prof.R. S. Lahane	3
22	Computer	Dr.Mrs.Neeta A Deshpande	5
23	Computer	Dr. Kailash Shaw	5
24	Computer	Mrs. D. A. Phalke	4
25	Computer	Mrs. V. L. Kolhe	8
26	Computer	Ms. D. B. Gothwal	4
27	Computer	Ms. D. A. Chaudhari	2
28	Computer	Ms. N. S. Patil	3
29	Computer	Mrs. Shantiguru	2
30	IT	Mr.A.J.Patankar	5
31	IT	Mrs.M.A.Potey	5
32	IT	Mrs.A.S.Gaikwad	2
33	IT	Mr.K.D.Bamane	5
34	Production	Dr.V.A.Kulkarni	4
35	Production	Prof. S.S.Sarnobat	4
36	Production	Prof. N.K.Kamble	4
List of guides from other Institutes associated to Institute research centers		
1	E&TC	Dr. Mrs. A. V. Patil	Yet to enroll
2	E&TC	Dr. Mrs. Sangeeta Jadhav	Yet to enroll

Faculty engaged in individual/ collaborative research activities (AY 2013-14 to AY2016-17)

Table 3.5: Faculty engaged in individual/ collaborative research activities

Dept. (Engg.)	No. of faculty engaged	Individual		Collaborative		Funding Agency
		Complete	Ongoing	Complete	Ongoing	
Mechanical	01	01	--	--	--	BCUD
E& Tc	04	03	--	--	--	BCUD
Instru.	2	1	1	--	--	BCUD
Computer	2	--	--	--	1	BCUD
IT	2	--	--	--	1	BCUD
Production	3	1	--	--	--	BCUD

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.

College continuously organizes the Guest Lectures, Training /Sensitization Programs, Workshops, Conferences so as to establish research culture among the students and faculty members.

Table 3.6: Research Activities

SN	Dept.	Guest Lecture	Training / Sensitization Programs	Work shop	Conference	
					National	**Intern ational**
01	Mechanical	21	2 (FDP)	5	Nil	Nil
02	Civil	26	1 (Training)	3	1	Nil
03	E& TC	15	07	16	1	Nil
04	Instru.	27	2	Nil	Nil	Nil
05	Computer	19	1 (FDP)	10	1	1
06	IT	20	1 (FDP)	18	01	Nil
07	Production	12	-	02	01	-
	TOTAL	**141**	**14**	**54**	**05**	**01**

Training Organized By Institute (AY 2015-16 and 2016-17)

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

The research areas and the respective faculty expertise are shown in following table.

Table 3.7 Prioritized Research Areas

SN	Expert faculty available	Prioritized research areas
	Department of Civil Engineering	
1	Dr. B. S. Balapgol	Structural Engineering
2	Dr. A. S. Kote	Water Resource Engineering
3	Dr. A. Y. Pisal	Structural Engineering
4	Mrs. S. V. Pataskar	Construction & Management
5	Mr. S. J. Mane	Environmental Engineering
6	Mr. S. Pathak	Construction & Management
7	Mrs. Ashwini Patil	Construction & Management
8	Mrs. Nilam Phadtare	Construction & Management
9	Mrs. Sadhana Shalu	Construction & Management
10	Col. B. K. Bhonde	Construction & Management
11	Dr. N. S. Jain	Geological Engineering
	Department of Mechanical Engineering	

1	Dr. D. R. Panchagade	Design Engineering
2	Dr. P. T. Nitnaware	Hydrogen Fuels & IC Engine
3	Dr. T.Dey	Energy and Thermal Engineering
4	Prof.S.R.Deodas	Heat and Mass Transfer
Department of E& TC Engineering		
1	Dr. D.G. Khairnar	Advanced comm..technologies
2	Dr. P. Malathi	Signal Processing
3	Dr. Manish Sharma	Intelligent control
4	Mrs. Aparna Shinde	Embedded systems
5	Mrs. Usha Jadhav	VLSI Design and Technology
Department of Instrumentation & Control		
1	Mr. N.V. Mane	Building Automation
2	Mr. V.S. Vibhute	Embedded System
Department of Computer Engineering Engineering		
1	Dr.Mrs.N. A. Deshpande	Multi-Media Security
2	Dr. Kailash Shaw	AI, Conservation, Biology, Pricing Theory, DM, Bio informatics.
3	Mrs. D. A. Phalke	DM, IR, Video Processing
4	Ms. D. B. Gothwal	Wireless Network
5	Ms. D. A. Chaudhari	Software Engineering, Testing
6	Ms. Suvarna Kadam	Machine Learning, AI
Department of Information & Technology		
1	Mr. A. J. Patankar	Data Mining and Advance Database, Information Security
2	Mrs. M. A. Potey	Information Retrieval
3	Mrs. A. S. Gaikwad	Digital Signal Processing
4	Mr. K. D. Bamane	Wireless Sensor Networks
Department of Production Engineering		
1	Dr. V. A. Kulkarni	Quality Control and Assurance and Manufacturing Processes
2	Mr. S.S.Sarnobat	Tool Engineering and Manufacturing Processes
3	Mr.N.K.Kamble	Material Forming and Manufacturing and Automation
Department of First Year Engineering		
1	Dr. S.K.Babar	Biomass Gasifier
2	Dr. S.T.Patil	Functional Analysis,Linear Algebra
3	Dr.(Mrs.) M.S.Kaulgi	Biomechanics,Fluid Mechanics.Numerical Analysis
4	Dr. (Mrs.) M. Tanwar	Chemical Kinetics
5	Dr. (Mrs.) S. Verma	Environmental Chemistry
6	Dr. (Mrs.) Shanti Iyer	Solid State Physics

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

Various conferences, workshops, and training programs conducted in the college has given a platform to the faculty members and the students to have an interaction with the eminent researchers and academicians who have been invited for the events. This interaction supports the faculty members to get the idea about the recent trends in the respective fields of their research areas and the state of the art technologies.

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?

Faculty members pursuing PG, Ph.D. and research projects are given the facility of availing special leaves to complete research work. College also provides on-duty leave to faculty members for participating and presenting papers at national and international seminars, conferences and workshops. This has resulted in the successful qualification enhancement of the faculty as shown in the table below:

Table 3.8 Successful Qualification Enhancement

SN	Department	Completed PG	Faculty pursuing Ph. D.	Faculty completed Ph.D.
1	Mechanical	07	02	01
2	E & TC	10	02	02
3	Instru.	02	02	-
4	Production	04	03	01
5	First Year	-	05	02
6	IT	02	03	-
7	Computer	08	02	-
8	Civil	06	02	02

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

Table No. 3.9 Name of the projects implemented

SN	Name of the Industry/ Beneficiary Agencies	Dept	Year of Establ.	Details
1	BCUD	Mechanical	2013-15	An Investigation on SI Engine using Hydrogen and CNG

				Blend
2	BCUD	E & TC	2013-15	Analysis and performance evaluation of evolutionary algorithms for random impulse noise removal of Color Image
	BCUD		2013-15	Analysis of Depth Estimation techniques for Stereo vision images
	BCUD		2013-15	Dual Band triangular 'U' slot Microstrip Antenna for WLAN application
	BCUD		2013-15	Quality of Service enhancement in routing for Mobile ad-hoc network bandwidth estimation.
3	BCUD	Instru.	2013-15	Stretch Sensor for Anthropomorphic Robot Hand

The research findings are shared with the students by faculty through various presentations and motivate to carry the research further by participating in the competitions like Avishkar.

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.

Resources for Research

Efforts have been taken to enhance research facilities by procuring various software / equipment in various departments. Following table shows the summary of these procured software / equipment.

Table 3.10 Expenditure Details for Print and e- journals are as below

Library holdings	2013-14		2014-15		2015-16		2016-17	
	No.	Total Cost (Rs)	No.	Total Cost (Rs)	No.	Total Cost (Rs)	No.	Total Cost (Rs)
Text books	1831	9.19	686	3.98	570	3.4	923	5.03
Ref. books	1831	5.65	686	0.25	62	4.63	14	0.23

Journals/ Periodicals	1831	3.11	686	4.21	99	2.86	99	2.82
e-resources	5241	-	5832	31.69	4260	7.64	4747	22.78
Total	7330	18.95	6677	38.13	4991	18.25	5783	30.16

Table 3.11 Expenditure Details for facilities provided by College

SN	Particulars	2012-2013		2013-2014		2014-2015		2015-2016	
		Allocated Budget (Lac)	Expenses (Lac)	Allocated Budget (Lac)	Expenses (Lac)	Allocated Budget (Lac)	Expenses (Lac)	Allocated Budget (Lac)	Expenses (Lac)
1	Equipments	20.52	18.65	42.17	38.34	38.14	34.67	41.05	37.32
2	Comp. & S/W	84.67	73.63	64.19	55.82	50.68	44.07	35.28	30.68
	Total	105.19	92.28	106.36	94.16	88.82	78.74	76.33	68.00

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?

Yes, College has provision of providing the seed money to the faculty for research. The department of Mechanical Engineering and E&TC has got the grants of Rs. 20,000 and 7,95,000 respectively in 2014-15. Also Information technology department has got the grants of Rs. 90,000 in 2016-17.

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

Some examples
A separate financial provision is available by the College for students projects of good quality based on requisition.
To name a few

- Group of students from Mechanical Engineering department are provided financial aid for participation in the National level competition called as SAE, BAJA and GOKart.
- Students from Mechanical Engineering department are provided with a financial aid for team participated in the National Competition like: BAJA, SAE India.
- Group of students from Civil Engineering department are provided with necessary material from Campus Construction Office.

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.

College has identified the prosperous sectors for interdisciplinary field of research. The students of Mechanical Engineering and Production Engineering, E&TC and Instrumentation, Computer and IT, are working

together towards the problem concerned to both the fields. These students are sharing Technical information, facilities, innovative ideas, guidance from expert of inter departments to participate in Technical Competitions like; SUPRA, BAJA, GO-Kart. In academic year 2014-2015 the team students from Mechanical, Production and IT department had participated in BAJA and won 2nd position among 258 competitors.

Table 3.12 Inter-disciplinary research

Department	SAE BAJA AY 2016-17	SAE BAJA AY 2015-16	SAE BAJA AY 2014-15	GOKart AY 2013-14
Mechanical	24	28	29	21
Production	5	5	NIL	1
IT	NIL	NIL	2	1
Instru	NIL	NIL	NIL	1
Comp	1	NIL	NIL	NIL

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

At departmental level, the laboratory facilities are made available to students and researchers as per their needs such as

- Civil and Mechanical department are running in two shifts which helps in optimizing the use of Lab facilities and equipments.
- Apart from practical hours labs that are having projector facilities are used by the students within and beyond the working hours.
- Library is kept open for extended hours for the students so as to utilize the reading room to its maximum.

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.

Yes, various departments in the College has received grants / finances from various agencies which are as mentioned below
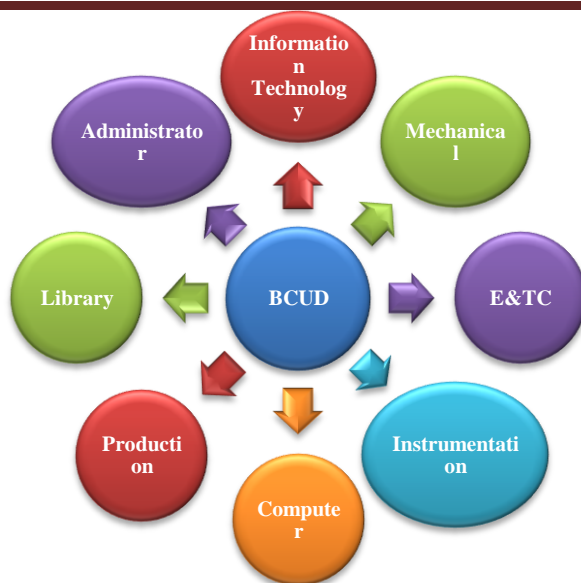
Fig 3.1: BCUD Grants
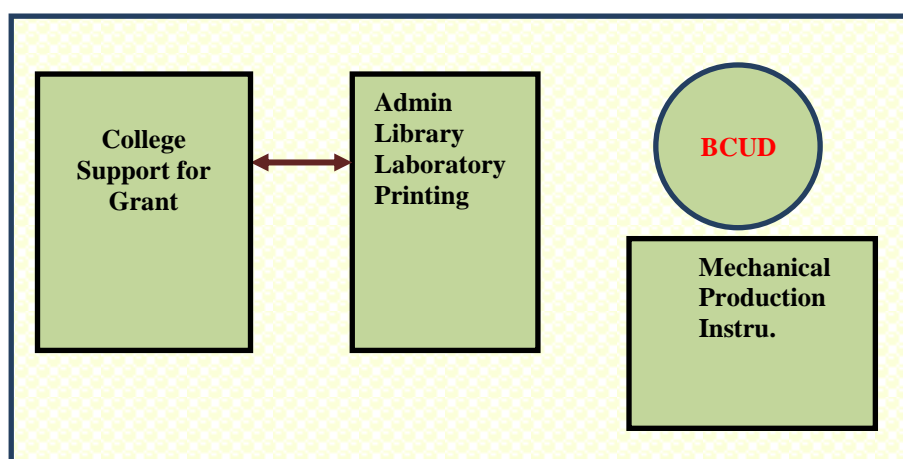
Fig. 3.2 College support

Sponsorship is received for arranging resources from industry like UPS, Pioneer Engineering Ltd.,Tool Room Engineering Ltd., India Maan aluminium Ltd. etc for events like BAJA, GOKart and SUPRA.

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.

As, the College encourages the research culture through paper publications and research projects, the faculty members are motivated to apply for research grants from various funding agencies.

Guidance is provided to all the faculty members related to promotion of research like:

1. Formulation of research problems
2. Literature Survey
3 Research methodologies

4 Accounting Procedures

5. Procurement of equipments, books, etc.

6. IPR awareness

Table 3.13: Research Grants

Nature of the project	Duration Year from To	Title of the project	Name of the Funding Agency	Total Grant		Total Grant Received Till date
				Sanctioned	Received	
Minor	2013-15	Analysis and performance evaluation of evolutionary algorithms for random impulse noise removal of Color Image	BCUD	2,00,000	1,83,223	1,83,223
Minor	2013-15	Analysis of Depth Estimation techniques for Stereo vision images	BCUD	1,55,000	1,36,909	1,36,909
Minor	2013-15	Dual Band triangular 'U' slot Microstrip Antenna for WLAN application	BCUD	2,20,000	1,98,466	1,98,466
Minor	2013-15	Quality of Service enhancement in routing for Mobile ad-hoc network based on bandwidth estimation.	BCUD	2,20,000	1,98,186	1,98,186
Minor	2013-15	Stretch Sensor for Anthropomorphic Robot Hand	BCUD	1,40,000	1,15,100	1,15,100
Minor	2013-15	An Investigation on SI Engine using Hydrogen and CNG Blend	BCUD	1,70,000	1,20,520	1,20,520
Minor	2013-15	Development of Supervisory Control and data acquisition system by touch trigger probe type coordinate	BCUD	1,60,000	1,59,733	1,59,733

		measuring machine				
Minor	2013-15	Experimental investigation analysis and modeling in turning of hardened steel	BCUD	1,40,000	1,37,689	1,37,689
Minor	2014-16	Boiler Modeling and Control	BCUD	1,20,000	77,000	77,000 (Ongoing)
Minor	2014-16	Framework for trouble shooting of IP based booking using UID	BCUD	90,000	54,629	54,629 (Ongoing)
Minor	2016-18	Machine translation based multi lingual question answering system for Indic and Dravidian language	BCUD	42,000	21,000	21,000 (Ongoing)
Minor	2016-18	Anamoly detection on Linux power smart phone using machine learning	BCUD	1,00,000	50,000	50,000 (Ongoing)
Industry sponsored	2016-17	BAJA SAE India	Maan Aluminium Ltd., Pune	50,000	50,000	50,000
			Pioneer Engineering Ltd., Pune	3,00,000	3,00,000	3,00,000
			Tool Room Engineering, Pune	1,00,000	1,00,000	1,00,000
			Shagun Textiles Pvt. Ltd.	10,000	10,000	10,000
			Zen Microtech Pvt. Ltd.	5,000	5,000	5,000
			Ador Welding	15,000	15,000	15,000
			Eleation Academy	15,000	15,000	15,000
			Micromatic	5,000	5,000	5,000

			Systems, Pune			
Any Other (College Sponsored)	2014-15	BAJA SAE India	DYPCOE, Akurdi	5,34,880	5,34,880	5,34,880
	2015-16	GOKart	DYPCOE, Akurdi	2,03,753	2,03,753	2,03,753
	2015-16	BAJA SAE India	DYPCOE, Akurdi	4,00,000	4,00,000	4,00,000
	2016-17	BAJA SAE International	DYPCOE, Akurdi	4,80,000	2,40,000	2,40,000
Any Other	2016-17	BAJA SAE International	UPS	10,00,000	10,00,000	10,00,000

3.3 Research Facilities

3.3.1. What are the research facilities available to the students and research scholars within the campus?

Following research facilities are available to the students and research scholars within the campus:

1. A separate research lab is available for the students for each PG course and the Research Centers.
2. College is having 16 PhDs and 21 University approved PG Teachers for research guidance.
3. High end computers with internet facility with 48Mbps High speed broadband internet connection and WiFi with due security features are provided in all laboratories.
4. Research computation softwares like MATLAB, Mentor Graphics, Ansys, XILINX, Mini Tab, and Abacus are available apart from advanced documentation tool like Latex.
5. Library is equipped with the necessary literature such as – Subscription to more than 5000 e-journals (which includes national and international journals.) NPTEL Materials, Catalogues, Codes and latest research oriented books and handbooks.
6. As this College is located in the vicinity of one of the largest industrial belt of Asia, research scholars are given opportunity to interact with the industry experts to identify and formulation of research problems from real life.
7. Strong interdepartmental research culture.

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?

Faculty members as well as students are always motivated by the college to participate in workshop, seminar, and conferences. Leaves are granted to faculty members to attend seminars, workshops and conferences. This strategy has successfully been resulted into the IPR applications in terms of Patents in the advance fields of VLSI, Mechanical Design, renewable energy, Signal Processing, etc.

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?

Yes. The respective facilities and grants are listed below.

Table 3.14 Special grants or finances from the industry or other agency

SN	Agency	Department	Grant Received in Rs.	Instruments/facilities created
1	BCUD	Mechanical	1,70,000	H_2 Cylinder, CNG Sequential injection system, Flow meter, CGR System
2	UPS India		10,00,000	Vehicle Logistic for BAJA Competition
3	Pioneer Engineering Ltd.		3,00,000	Components for BAJA USA Competition
4	Tool Room Engineering		1,00,000	BAJA Vehicle
5	Maan Aluminium Ltd.		50,000	BAJA Vehicle
6	Mango Paints		10,000	BAJA Vehicle
7	BCUD	ENTC	7,95,000	RF Analyzer, performance evaluation of evolutionary algorithms for random impulse noise removal of Color Image, Dual Band triangular 'U' slot Micro strip Antenna for WLAN application, Depth Estimation techniques for Stereo vision images
8	BCUD	Instrumentation	2,60,000	IC Tester kit, Boiler automation set up
9	BCUD	Computer Engineering	1,00,000	Biggel Board, 7" TFT display
10	BCUD	Information Technology	90,000	BOOK ,30mbps Wireless router
11	BCUD	Production	3,00,000	Cutting Tools – Light Honed, Heavy Honed, Standard Honed and Wiper geometry. Left Handed Tool.Temperature measurement kit.

3.3.4. What are the research facilities made available to the students and research scholars outside the campus / other research laboratories?

Apart from providing in-house facilities, college has various collaborations in the form of MoU with external agencies outside campus through which students and faculty members are benefited. The details are as below:

Table 3.15: Facilities outside campus

SN	Department	Collaboration with			
		MoU with Ind.	Industry Implant Training	Other College	Library
1	ENTC	03	-	02	03
2	Civil	03	-	02	03
3	Instrumentation	01	01	02	03
4	Production	01	24	02	03
5	Mechanical	08	-	02	03
6	IT	02	-	02	03
7	Computer	01	-	02	03

3.3.5. Provide details on the library/ information resource centre or any other facilities available specifically for the researchers?

The College is having a very rich library with a diversified area of literature having more than 45,000 books and journals. The categorized information of the library is as shown below

Table 3.16 Library details for Research

SN	Dept.	No of Titles CD's	No of Titles Magazines	No of Titles of E-Journals	No of Titles of Journals	Com No of Titles of Volumes	No of Titles of Books
1	Civil			358	17	4683	2217
2	IT			1025	06	4900	624
3	Computer				11	5559	1789
4	Instru.	2056	7	961	06	2076	1600
5	E&TC				16	6514	1677
6	Mechanical			507	16	7015	2732
7	Production				11	2131	699
8	FE			1896	04	6268	2943

Open source tools are available in all the departments. Project lab facility, high end computing facility is also available in the Institute.

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.

Various softwares and equipments available in one department is always available for the students and the faculty members of other departments to be used for the research purpose with formal procedures. Experimental kits like Rasberry Pi and Beagle Board Black embedded with Mounted displays, Smart notice board, Intelligent home automation system, Automatic Shooting kit based on Image Processing, calibration ball plate, Automatic feeding system for agriculture applications, Google Scholar Based feedback system, Bambu reinforcement, concrete composition, E-SATBARA, Left handed tool holder,

triangular and rhombus geometry inserts, erosion control of embankment using paddy straw, etc are developed. Smart library automation software is also developed in the Institute itself. The respective outcomes of the interdisciplinary collaborative research are also shown in Table 3.14.

3.4 Research Publications and Award

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 obtained and filed (process and product)
The faculty members and the students are actively involved in the process of research work which is reflected by the number of research papers published. They are also encouraged to get the due recognition of their research work through IPR registration in the form of patents. The list of the number of patents filed from the faculty members from each department is as given below:

Table 3.17 Number Patents

SN	Name of the Department	No. of Patents filed / applied	No. of Patents Published
1	Mechanical	02	05
2	ENTC	02	NIL

Original research contributing to product improvement and benefiting the community or improving the services
The research work of some faculty members also resulted in the form of product improvement which is as given below:

Table 3.18 Product Improvement

Name of the Department	Name of Faculty	Project
ENTC	Dr. P. Malathi	Antenna which works in the range from 3GHz to 14GHz.
Mechanical	Dr. P. T. Nitnaware	(S.I Engine) CNG Engine
Mechanical	Dr. P.T. Nitnaware	Carbon di-oxide reduction of SI Engine
Production Engg.	Dr. V.A. Kulkarni	Zirconia - Dolerite and HC-Cr ball plate for interim check of coordinate measuring machine

Research studies or surveys benefiting the community or improving the services.

Table 3.19 Research studies or surveys benefiting the community

SN	Name of the Department	Faculty contributed	Projects
1	First year	Dr. M.S. Kaulgi	Modeling of blood flow through steonised artery for heart attack and effect of magnetic zone
2	Mechanical Engg	Dr. R.S. Bindu	Methodology for thermal optimization of welding machine based on thermal and CFD analysis
3	IT	Dr. K.N. Honwadkar	Concurrent algorithm to improve capacity and efficiency of the network storage
4	Civil Engg	Dr. W.N. Deulkar	Techniques of controlling the seismic response of structures

Research inputs contributing to new initiatives and social development.
Some research work by the faculty members has been transformed for the wellbeing of the society. The respective details are as shown below:
Table 3.20 new initiatives and social development

SN	Name of the Department	Faculty contributed	Projects
1	Mechanical	Dr. P. T. Nitnaware	HCNG Blends to satisfy BS-V norm
2.	First Year	Dr. S.K.Babar	Biomass micro gassifier

3.4.2. Does the Institution 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?

The College is in the process of starting a new international journal to give a platform to the researchers to get their research work published. The application to get the ISSN number from the respective authorities is in process.

3.4.3. Give details of publications by the faculty and students:

- **Publications per faculty**
- **Number of papers published by faculty and students in Peer reviewed journals (National , International)**
- **No. of publications listed in international database(for ex. web of science, Scopus, humanities international complete, dare database-International social science directory, EBSCO host, etc)**
- **Monographs**
- **Chapters in books**
- **Books Edited**
- **Books with ISBN/ISSN numbers with details of publishers**
- **Citation Index**
- **SNIP**
- **SJR**
- **Impact Factor**
- **h index**

The faculty members and the students of the Institution are always keen to get the recognition of their research work through the research paper published in the renowned journals and the proceeding of very good conferences. The respective details of the publications at College level are given below:

Last Five years (2013-2017)

Table 3.21 Publications of faculty (Peer Reviewed)

SN	Name of the Department	Total No	Peer reviewed	
			National	International
1	Mechanical	17	0	17
2	Civil	90	2	88
3	ENTC	125	0	125
4	Instru & Control	14	0	14
5	Computer	232	0	232
6	IT	73	0	73
7	Production	11	1	10
8	First Year	14	0	14

Table 3.22 Publications of faculty (Non-Peer Reviewed)

SN	Name of the Department	Total No	Non-Peer reviewed	
			National	International
1	Mechanical	57	0	57
2	Instru & Control	06	02	04
3	Production	01	00	01
4	First Year	02	00	02
5	ENTC	04	00	04
6	IT	57	50	7

Number of papers published by faculty and students in peer reviewed journals (National/International)

Table 3.23 Publications of faculty/student

SN	Name of the Department	Faculty	Students	Number of Publications
1	Mechanical	16	25	12
2	Civil	92	58	90
3	ENTC	153	99	93
4	Instru & Control	14	00	14
5	Computer	141	274	152
6	IT	18	54	18
7	Production	8	5	5
8	First Year	8	15	8

Number of publications listed in International Database

Table 3.24 Publications of in International Database

SN	Name of the Department	Publications	Faculty
1	Mechanical	73	38
2	Civil	90	20
3	ENTC	102	26
4	Computer	232	24
5	Instru & Control	14	14
6	IT	75	8
7	Production	11	5
8	First Year	16	03

Books Published

The knowledge and precious experience of some faculty members has been transferred to the society through the books also whose details are as shown below:

Table 3.25 Books Published

SN	Name of the Department	Books	Faculty
1	Civil Engineering	4	3
2	Mechanical	1	1
3	ENTC	1	1
4	Instru. & Control	2	2
5	IT	6	5
6	Production	2	1
7	First Year	6	1
8	Computer	4	1

Table 3.26 Details of Books Published

SN	Dept.	Faculty	Name of Book	ISBN No.	Books
1	Mechanical	Dr. D. R. Panchagade	Damage Prediction Of Portable Electronics: Electronic Packaging, Mechanical Behavior, Life Prediction, Failure Mechanisms and Computational Mechanics	VDM Verlog	1
2	ENTC	Dr. Mrs. P. Malathi	Introduction to Signals and Systems	978-81-89178857	
3	Civil	Dr. Alka Pisal and Dr. R.S. Jangid	Vibration control of structure using tuned mass friction	978-3-659-81693-2 LAP Lambert Publisher, Germany	1
		Mrs Smita Pataskar	1.Project Management and Engineering Economics 2.Constuction Management	978-93-5164-352-4 -	2
		Dr N S Jain	Engineering Geology	978-93-83750-91-7	1
4	IT	Mr. A. J. Patankar	Bioinformatics System	935164376-x	1
		Mrs. Amita Jajoo	1.Software Programming 2.Software Engineering	978-93-5164-201-5 978-93-5164-372-2	2
		Ms. Snehal Sarangi	Information Cyber Security	978-93-5224-120-0	1
		Ms. Ashwini Abhale	1. Fundamentals of Programming Language I	978-93-5077-644-5	4

			2.Fundamentals of Programming Language II	978-93-5077-849-4	
5	Instru and Control	Mr. V.S. Vibhute	Use of Stretch Sensor for Anthropomorphic Robot Hand	10:3659371173	1
		Nagdeo Namrata	Peak Flow Measurement by Piezo	10:3847376195	1
6	First year	Mr. D.A. Bhagwat	1. Basic Electrical Engineering 2. Electrical Machines 3. Electrical Circuits and Machine Technology 4. Electrical Technology 5. Electrical Circuits and Machines 6. Elements of Electrical Engineering	81-86314-57-1 81-7660-013-x 81-86314-45-8 81-7660-83-0 81-7660-011-3 81-86314-91-1	6
7	Production	Dr. V. A. Kulkarni	1. Metrology and Measurement 2. Quality Control	10-0070140006 (McGraw Hill) 9788126519071(Wiley India)	2
8	Computer	Dr. Neeta Deshpande	1.Data structures and Algorithms 2. Artificial Intelligence 3. Data Structures 4. Distributed Systems	81-8431084-6 9788184313376 81-89411-72-1 9789350385678	4

Chapter in books

Table 3.27 Chapters in Books

SN	Name of the Department	Chapters in book	Faculty
1	ENTC	02	01
2	Mechanical	01	01
3	Production	01	01

Table 3.28 Chapters in Books with description

SN	Name of the Department	Faculty	Chapters in Books	Name of Book/ Chapter	Page No
1	Mechanical	Dr. Dey Tapobrata	1(Nano Indentation behavior of Anode Supported solid oxide fuel Cell)	Nano Indentation of Brittle solid by CRS Press Publications	235-241
2	ENTC	Dr. D. G. Khairnar	1 An optimal RBF Neural Network for Signal Detection in Non- Gaussian Noise 2 Moving Target Detector using back propagation Neural Network	1 Lecture Notes in computer Science 2 Lecture Series in computer and computational sciences	306-309 100-104
3	Production	Dr. V.A. Kulkarni	Distortion Analysis	Springer Atlantis	In Process

Books Edited

Table 3.29 Book Chapter edited with description

SN	Name of Faculty Member	Name of the Department	Name of Book	Publisher
1	Dr. Alka Pisal	Civil	Strength of Materials	Oxford Press university

Citation Index

Table 3.30 Journal Citation Index

SN	Name of the Department	Range	Faculty
1	Mechanical	0-629	03
2	Civil	0-44	08
3	ENTC	0-20	09
4	Computer	0-167	08
5	IT	0-15	02
6	First Year	0-57	01
7	Instru. & Control	0-3	01
8	Production	0-33	01

Impact Factor

Table 3.31 Impact Factor of Publications

SN	Name of the Department	No. of Faculty	Range
1	Mechanical	18	0.1-6.3
2	ENTC	28	0.8-6.5
3	Instru. & Control	10	0.349-6.577

4	Computer	25	0.3-6.5
5	IT	20	0.54-6.577
6	First Year	02	0.5-5.0
7	Civil	11	0.1-4
8	Production	01`	0.5-3

H Index

Table 3.32 H-Index of publications

SN	Name of the Department	No. of Faculty	H Index
1	Mechanical	04	11
2	Civil	09	5
3	ENTC	28	2
4	Instru. & Control	01	01
5	Computer	8	5
6	IT	02	3
7	First Year	01	05
8	Production	02	02

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
• Incentives given to faculty for receiving state, national and international recognition for research contributions.

The details of various awards and recognition received by the faculties are listed below:.

Table 3.33 Awards and recognition recieved by faculty

SN	Name of the Dept.	Engg. Faculty	College	Local	State	National	Inter national
1	E&TC	Engg.	-	-	-	1	-
2	Instru. & Control	Engg.	-	1`	-	-	-
3	Production	Engg.	1	-	-	-	-
4	Computer	Engg.	-	1	-	-	-

Recognition received by the faculty from reputed professional bodies and agencies, nationally and internationally

Table 3.34 Professional Bodies registered by faculty

SN	Dept.	Engg.Faculty	College	Local	State	National	International
1	Mechanical	Engg.	Nil	6	Nil	2	02
2	ENTC	Engg.	Nil	5	Nil	Nil	02
3	Instru. &	Engg.	Nil	Nil	01	Nil	Nil

	Control						
4	Computer	Engg.	03	8	Nil	Nil	Nil
5	IT	Engg.	Nil	1	03	Nil	Nil
6	Production	Engg.	01	2	Nil	Nil	Nil
7	Civil	Engg.	Nil	4	Nil	1	2

Reviewer of journals

Table 3.35 List of journal reviewers

SN	Name of the Department	Faculty	National	International
1	Mechanical	2	Nil	2
2	Civil	1	1	1
3	ENTC	3	0	3
4	Instru. & Control	1	0	1
5	Computer	4	8	3
6	Production	1	1	1

3.5 Consultancy

3.5.1 Give details on the systems and strategies for establishing College industry interface?

The college strives towards strong academia industry interface. For this, various cells have been established

- T&P Cell
- EDC Cell
- III Cell

The above cells work using the following strategies

1. •Expert Lectures
2. •Seminars
3. •Workshops
4. •Conferences
5. •Sponsored Projects
6. •Placements
7. •Industrial Trainings
9. •Industrial Visits/Exhibitions

Fig 3.3 Strategies of industry Institute interaction

In addition to this 18 MoUs have been signed with industries to create strong bonding with them.

3.5.2 What is the stated policy of the Institution to promote consultancy? How is the available expertise advocated and publicized?

The college encourages the faculty members to interact with the industries and identify the problems faced by them. The expertise of the faculty members could be of use for the industries to solve their real time problems.

Efforts taken:

- Faculty develops instruction materials, working models, charts, etc
- Development of research portfolios with students and colleagues
- Development of diversified areas of research
- Acknowledgement of faculty research efforts in newsletters, brouchers, prospectus
- Faculty profiles are publicized and updated in website, blogs, social media, etc.
- The project groups are allocated based on the area of expertise of faculty members
- Regular interaction with the stakeholders to identify the problems domain

3.5.3 How does the Institution encourage the staff to utilize their expertise and available facilities for consultancy services?

College motivates the faculty members to utilize their expertise and available facilities for consultancy services in the following ways:

- Faculty members are allowed to visit various industries to enhance the research activities
- Faculty members are encouraged to make their students to do their project on the problems faced by the industry.
- Motivates faculty members to attend national and international symposium/workshops, for getting a prospect to communicate with experts.
- The respective consultancy work is been recognized by the college and considered while performance appraisal.

3.5.4 List the broad areas and major consultancy services provided by the Institution and the revenue generated during the last four years.

The faculty expertise is available in the areas of

- Data Mining
- Reliability Prediction and accelerated testing
- project management
- Environmental Engineering
- Signal Processing
- VLSI
- Embedded systems
- Automation
- Advance communication
- Structural Engineering
- Concentrated Photovoltaic
- Fuel cell stack
- Metrology and measurement
- Die and MoUld design
- Conventional machining

- Structural Engineering
- Geotechnical Engineering

Dr. D.R. Panchagade (Mechanical), Dr. Alka Pisal (Civil) are recognized as Charted Engineers and are eligible to provide consultancy services.

Consultancy services are provided to ThyssenKrupp, Pune in the field of geological investigation on limestone samples. These rock samples are also verified for their failure load and compressive strength.

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?

The College is having a policy of sharing the revenue generated through consultancy. The consultancy services offered to ThyssenKrupp has enhanced the professional competency of faculty members. The active participation of students in the consultancy work has enhanced the capability of students for complex investigation of Engineering problems.

3.6 Extension Activities and Institutional Social Responsibility (ISR)

3.6.1 How does the Institution promote College-neighborhood community network and student engagement, contributing to good citizenship, service orientation and holistic development of students?

The college encourages the faculty and students to initiate, participate and implement the programmes which contribute to societal awareness for various issues. The student community is being helped by implementing the government reservation schemes and offering good scholarships to students on merit and economic basis. The major strength of the college is its ability to ensure holistic development of students to make them responsible citizens by teaching the moral values and ethics.

College-Neighborhood Network

The MOU with COEP has resulted into knowledge sharing in the area of nonconventional machining. The college is partner with COEP and Modern Engineering College in Pune, Auto Expo to solve the traffic issues and come up with solutions for traffic regulations and law. Dr. Harish Tiwari had delivered expert lecture on IPR Awareness. All the neighboring Institutes are practicing pool campus activities for placement, will be further taken up to formulate QCFI, Illuminati Club, etc.

Student Engagement:
- Organizing various NSS Camps
- By regularly involving students in Blood Donation Camps
- BAJA workshop for improving the skill sets of students of neibouring colleges.

Contributing To Good Citizenship

Organizing activities for cleanliness drives of bus stands, giving books to poor students, clothes to underprivileged people etc.

Service Orientation
- Organizing events like Chronoz, Vihang, etc which brings together students of various colleges and gives them a platform to showcase and share their technical and cultural ideas.
- Conducting the flag hoisting at important national holidays and involving NSS students for the society.

- SUPRA- GOKart students develops organization skill of technical, marketing and sales.

Holistic Development Of Students

- PC and Internet awareness, and Importance of Education (Engineering)

Activities organized by NSS

Table 3.35 Social Activities organized (AY 16-17)

SN	Theme of the activity	Activity	Cells/wings/Activity	No of student Involved
1	Yoga Day	Yoga Posture	Mrs. Kirti Badve explained the steps of each yoga in detail and Mr. Shivkumar Badve demonstrated yoga and Mr. Pankaj Joshi sir guided the students and faculty members to do yoga in proper manner.	50
2	Vana Mahotsav	Tree Plantation	The trees are planted at different locations in udyan ,about 25 trees are planted about each location	75
3	Swachh Bharat Abhiyan	Cleaning and Plastic bags Collection	Cleaning of Railway Station area. Awareness of social places	120
4	Less Cash To Cash Less	Cashless Awareness	Effect of demonetization how to overcome from effect of demonetization and its long term benefits was discussed	70
5	Donation Program	Book & Stationary	Book & Stationary Donation activity was organized at "Samarasata Gurukulam, Chinchwad". The book and Stationary received from students and faculty members ,the total of 1000 note books,340 story books,190 novels and stationary materials like pen, pencil, erasers, scales and crayons etc. Was distributed to children's of gurukulam	50

Table 3.36 Social Activities organized (AY 15-16)

SN	Theme of the activity	Activity	Cells/wings/Activity	No of student Involved
1	Donation	Blood Donation	An innovative life saving project implemented For timely availability of blood for emergency obstetric and other cases scaling up in all Districts	270
2	Vana Mahotsav	Tree Plantation	The aim of tree plantation is to aware people about importance of tree in our life. Tree helps to reduce the pollution and global warming	50
3	Swachh Bharat Abhiyan	Cleaning and Plastic bags Collection	This program in organized near Akurdi railway station. Making Publicity with importance of cleaning slogans and human rally.as well as motivated slogans for Cleaning campaign. Innovative ideas like spread Swachhta Song (By Indian Gov.) in each What's app and Facebook group of our college. Display Posters on Public Places	50
4	Police Mitra activity	Ganesh Festival	Our college student's helps to police in Mob control, Traffic Control, and anti terries activity during 21st to 28th Sep 2015	17
5	Road Safety Abhiyan	Helmet Rally	Organizing Helmet Rally in College area and aware them about helmet law and Making Publicity with road safety slogans and human rally Total Distance of Rally :- 8KM Total Number of Vehicles participated:-20 bike Effected Area:- 7 Signals	50

Table 3.37 Social Activities organized (AY 14-15)

SN	Theme of the activity	Activity	Cells/wings/Activity	No of student Involved
1	Road Safety	Awareness Program	As per University of Pune National Service Scheme letter No under reference on Road Safety Awareness Program, the pledge taking ceremony was organized at D. Y. Patil college of Engineering Akurdi campus on dated 11-01-2014 at 11.00 am. About students and faculty, and staff members from our Engineering College took the oath regarding traffic safety rules while walking or driving vehicle on road.	700
2	Donation	Blood donation	An innovative life saving project implemented in Dr. D.Y.Patil College of Engineering, Akurdi. For timely availability of blood for emergency obstetric and other cases scaling up in all Districts	205

Table 3.38 Social Activities organized (AY 13-14)

SN	Theme of the activity	Activity	Cells/wings/Activity	No of student Involved
1	Police Mitra	Ganesh Festival	Our college student's helps to police in Mob control, Traffic Control, and anti terries activity during 20st to 29th Sep 2013.	7
2	Street Play	Voting Awareness	Make student aware about voting and voting will help to elect right candidate in election and it helps to improve our country towards development	12

Above mentioned social activities are conducted by college on regular basis to create awareness among the students regarding their social responsibilities.

3.6.2 What is the Institutional mechanism to track the students' involvement in various social movements/activities which promote citizenship roles?

The highly motivated faculty members and the students of the College are inclined towards various social causes and extension activities. The Head of departments, Dean, Section Incharges organizes social program by keeping in view students participation and reach to unreached. These activities are well interacted with the studenst. At the end, students have to submit the attendance certificate / proof of participation / Detail report of the activity to the respective incharges. Most of the time Faculty In charges actively take part

with the students in social activities. The performance of students and their involvement is monitored through the different NGO, Village panchayat and heads of organization. Students are then appreciated and rewarded for their contribution.

3.6.3 How does the Institution solicit stakeholder's perception on the overall performance and quality of the Institution?

Students, Parents, faculty members, university panel and the society are the important elements of the education system which decide the overall performance and quality of the Institution. The perception of stakeholder is taken regularly regarding the overall performance and growth of the College. The feedback from the Social working Colleges is taken on regular basis. College actively helping the "Nachiket Balgram" children social working NGO. The Feedback on program arranged for them is actively taken by the College.

College has developed the system to take feedback from the NGOs on regular basis. College actively organize, monitor and take feedback for the social welfare programs. For overall proper functioning of the College and to create a competitive environment, following measures are taken.

- Student feedback for the respective course for all students is conducted twice in each year.
- Complaint/ Suggestion box is placed in all the department of College.
- Placement analysis, Result analysis, and feedback analysis are carried out and necessary actions are taken for further improvement of the College.
- After regular interval of time Alumni meets are conducted and feedback is taken. This feedback is discussed in meetings of Training and Placement (T & P) cell and shortcomings are addressed.
- Every semester parent- teachers meet is conducted for every department. Point related to student performance and parents suggestions are discussed.
- In the beginning of semester, induction program is conducted for first year students. Students and their parents are invited and feedback/suggestion is taken.

3.6.4 How does the Institution plan and organize its extension and outreach programmes? Providing the budgetary details for last 4 years, list the major extension and outreach programmes and their impact on the overall development of students.

Every academic year various extension and outreach Programmes are planned and executed. Few of the organized Programmes are:.

Table 3.39 List of Outreach Program

Name of Activity	Occasion
Blood donation camp	Engineers Day
Awareness Programme	NSS camp
Teachers Day	STP Programs
Science Day	International Women's Day

Helmet Rally	Road Safety Show
Yoga Day	Donation programs
Police Mitra Activity	Vana Mahotsav

Table 3.40 Financial Support for Outreach Progaram

Funds paid by college for various activities are shown below.

Year	NSS (Rs)	Awareness (Rs)	Blood Donation Camp (Rs)	Plantation (Rs)
2016-17	25,250/-	2000/-	NIL	1000/-
2015-16	25,245/-	2000/-	2000/-	1000/-

Impact of these social activities results in enhanced team work and leadership.

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 college plans and conducts various activities for social development. The information about the proposed activities is disseminated on the college notice board, Academic calendar, circulars and web notifications. This imbibes self-discipline, self-initiative and strengthens the sentiment of nationhood. Students are encouraged to participate in various activities like Helmet Rally , Road Safety Show, awareness programs etc in order to spread social messages.

3.6.6 Give details on social surveys, research or extension work (If any) undertaking by College to ensure social justice and empower students from underprivileged and vulnerable sections of society.

The College has organized various activity at college level through NCC to strengthen self discipline and sentiment of nationhood among students. Following are the details:.

Table 3.41 List of College level Activities

SN	Department	Name of Activity	Date	Venue	No. of Participants
1	College Level	Independence day	15/8/16	DYPCOE Akurdi	20
2	College Level	Republic day Parade	26/1/16	DYPCOE Akurdi	20
3	College Level	E-Cashless drive	11/1/17-20/1/17	PCMC Market Place	175
4	College Level	Republic day Parade	26/1/17	DYPCOE Akurdi	17

3.6.7 Reflecting on objectives and expected outcomes of the extension activities organized by the Institution, comment on how they

complement students' academic learning experience and specify the values and skills inculcated?

Objectives

The aim of these extension activities arranged by the Institution is to make students aware of strengths and weakness of the society and what reforms are required to make our country a better place to live. These activities form a channel to make students aware of important issues concerning the society such as people safety, gender inequality, poverty, pollution hazards, female Feoticide and the corrective measures to counter them.

Outcomes

Students understand their roles to be played in the society. These activities improves their overall personality and enable them to take part in the Nation building process. Different Engineering departments have a technical society such as ISTE, IEI, ISA where students get a platform to boost the overall confidence, instill a sense of leadership and develop team building skills.

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 which have encouraged community participation in its activities?

The College conducts activities which promote a high community-College interaction. The Institution organizes various activities like:

1. Gender equality
2. Mobile and Laptop repairing workshop
3. Nirbhay Kanya Abhiyaan
4. Medical checkup of school students
5. Dental Checkup
6. Plastic removal drive
7. Celebration of festival with under privileged section of the society

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.

Constructive relationship with other Institutions has been developed through following activities:

- Civil Engineering students got best college award in NIRMITEE 2016 at MIT, Pune.
- Blood donation camps are organized in association with YCM hospital.
- Joint workshop on Recent trends in refrigeration and Air conditioning was conducted in association with AIT , Pune and WCE, Sangli with due emphasis on issues of hazardous refrigerant

3.6.10 Give details of awards received by the Institution for extension activities and/contributions to the social/community development during the last four years.

- Dr. Mrs. P. Malathi & Mrs. Usha Jadhav received award for Recognition of Leadership by Skyfi Labs for the successful completion of on line based project.
- E&TC dept organized e-Waste collection drive on the occasion of Engineer's Day celebration 2016 under the guidance of Mrs. Usha Jadhav; received destruction certificate from Pollution control board for supporting Green Earth Policy of government of India

- Mrs. Rutuja Deshmukh has filed patent on "An Alteration in Turbo Encoder and its interleaver for optimal transmission of high dimensional data", on 18 th Nov,2016.
- Dr. Manish Sharma, Dr. P. Malathi and Dr. D.G. Khairnar has filed patent on "The design of Parallel Asynchronous Self Timed Adder".
- Mr. S. G. Patil has participated and successfully completed Airtel Hyderabad (Half Marathon) on 28 th Aug, 2016. He covered 21 km distance in 2Hrs and 42 minutes.
- Mrs. S. V. Pataskar has participated and successfully completed Pune Woman's (Half Marathon) on 12th March, 2017.
- Prof. V. S. Vibhute has been appointed as "Technical Advisor" by MIDC, Chinchwad for their project "SCADA Automation for Water Distribution Network" for Chakan, Talegaon and Bhosari Industrial Area

3.7 Collaboration

3.7.1 How does the Institution collaborate and interact with research laboratories, Institute and industry for research activities. Cite examples and benefits accrued of the initiatives collaborative research, staff exchange, sharing facilities and equipment, research scholarships etc.

Industries are the major and very important stakeholder in the process of strong academic value addition to the knowledge of the students. This aspect has motivated the College to have a strong relationship with the industries involved in the state of the art technologies. The interaction is shaped formally in terms of MOUs signed which help the students to attain the required exposure and the skills for the students to become employable.

Table 3.42 Interaction with outside world

SN	Initiatives	Activities	Benefits
1	Collaborative Research	ME Projects with DRDO	Propagating research culture
2	Staff Exchange	Training to Industrial Employees	Strengthening Industry-Academia Partnership
3	Sharing Facilities and Equipments	Sharing of research labs with neighboring Institutes	Knowledge exchange in sharing and due acknowledgement for research outcomes.
4	Research Scholarships	Scholarship to students by Cummins foundation	Motivation for meritorious students

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.

The College is surrounded by the very well developed industrial area which has provided ample opportunities to establish a strong College industry tie up. College has an added benefit of being situated in the centre of Industrial hub and in the vicinity of IT hub. The potential of this advantage has been exploited by the College by signing and activating MOUs for the wellbeing of the students and the staff members. Details of MOUs / Collaborative arrangements of the College are follows

Table 3.43 MoU of Institution

SN	Department	Number of MoUs		
		Industry	Colleges	Research College
1	Mechanical	4	3	1
2	Civil	3	1	1
3	ENTC	3	-	1
4	Insrtu. & Control	1	-	1
5	Computer	2	1	1
6	IT	1	1	1

Table 3.44: Details of MoU with Industry

Industry		
SN	Department	Name of Industry
1	Mechanical	Pune Techtrol Pvt. Ltd.
		Indtech Udyog
		Sidhakala Engineers
		Vedanta Metal Products
2	Civil	EDSS
		Contrologix
		Waingade Enviro & Agro Solutions
3	ENTC	TSSC, Pune Techtrol, Bitmatrix
4	Instru & Control	Instron Automation Pvt Ltd
5	IT	Zensar Technologies Limited
6	Computer	Infosys Technologies
		Opulent technology Ltd.

Table 3.45: Details of MoU with Institute

Institute		
SN	Department	Name of Institute
1	Mechanical	Engineering Cluster, Pune
		Mechanical Engineers (India)
		College of Engineering, Pune
		PMS Robotics Research Centre, Pune

2	Civil	College of Engineering, Pune
3	IT	College of Engineering, Pune
4	Computer	Infosys Technologies
		Opulent technology Ltd.
5	Production	Engineering cluster, Pune

Table 3.46: Benefits of MoU

Academic Year	Name of the company	Date	Considerable Impact
2016-17	TSSC	June, 2016	Five faculty members are trained under the training program for the certified trainers
2015-16	Pune Techtrol Pvt. Ltd.	17/05/2016	Regular industrial visits. Sharing of problem statements to be used BE the students for their projects.
2015-16	Bitmatrix	23/07/2016	Resulted in workshops and seminars.

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.

Department of ENTC has CUDA learning center lab which was developed and funded by NVIDIA. Students of Civil Engineering Department are using Lab facilities of Constrologix. Also experts from Constrologix are guiding students. It has given placement to five students of Civil Department. Accurate gauging and instruments pvt ltd had extended their calibration facility to carry out research work for faculty of production Engineering department. Infosys campus connect programme contributed to faculty enablement programs, webinars, programming contests, workshops and road shows for enhancing professional knowledge in core areas like business intelligence, multi-dimensional data modeling, data integration etc. Civil Engineering department is a life-member of Indian Plumbing Association to enable research in areas of water management systems.

3.7.4 Highlighting the names of eminent scientists/participants who contributed to the events, provide details of national and international Conferences organized by the college during the last four years.

Details of the eminent personalities who contributed in events at College are:

Table 3.47: List of Eminent personalities

SN	Name	Organization
1	Mr. Murad Pathan	Manager, Institutional Collaboration
2	Mr. Siddharth	Founder & CTO @ cruise

	Jagtiani	
3	Dr. A. G. Nagarkar	Senior Scientist, DST, Pune
4	Ms. Sneha Nagarkar	Patent advisor, Pune
5	Ms. Ankita Nagarkar	Youth Innovator, Pune
6	Mr. Ashish R. Dubey	Academic Program Manager, Bentley Systems , Pune
7	Ms. Ramita Mitra,	Project Manager Accenture Pvt. Ltd. , Bengaluru
8	Mr. Dhawal Morey	Sr. Executive Business Development ATS | Learning Solutions Microsoft-AER
9	Mr. Arun More	Chairman at professional educational society Pune
10	Mr. Saurabh Rawat	Manager Training and Placement I-Medita
11	Mr . Sudhanshu Bhat	Lead Trainer I-Medita
12	Mr. Varun Nair	Snapdeal, Team Lead-Information Security
13	Mr. Malla Reddy	Security Consultant
14	Dr. G.V. Garje,	Chairman BOS IT, UoP
15	Dr.Sangeeta Kale	Professor DIAT
16	Mr. Parag Harolikar	Director & Global Head of IoT-ICT Business Development
17	Dr. C. R. S. Kumar	Asso Professor & HOD, Computer Engg., DIAT, Pune, DRDO, Ministry of Defence, India
18	Dr. Rajkamal	Director, Medicaps Inst. of Sci. and Tech., Indore
19	Dr. Shevgaonkar	IIT, Bombay
20	Mr. Rajan Shringarpure	Vishay Components Pvt. Ltd.
21	Dr. B.K. Panigrahi	Asso. Professor, IIT Delhi
22	Dr. M Arun Bhaskar	Tshwane University of Technology, South Africa
23	Dr. Swagantam Das	Asst. Prof. ISI, kolkata
24	Dr. S S Das	Professor, SRM University
25	Mr.Balaji Reddy	Founder Deming Forum India.
26	Mr. DevindraMaral	Manager preseries Logistics, Volkswagan India
27	Mr. Mangesh Astekar	General Manager Forbes Marshall Ltd

List of National & International conferences organized by College:

Table 3.47: List of Conferences organized by College

SN	National/ International	Date	Resource Person(s), Chief Guest, Guest of Honour, Speaker	Conference on
Information Technology Department				
1	National	22/01/2015- 23/01/2015	1. Dr. G.V. Garje, Chairman BOS IT, UoP 2. Dr.Sangeeta Kale, Professor DIAT 3. Parag Harolikar, Director & Global Head of IoT-ICT Business Development 4. Dr. C. R. S. Kumar, Associate Professor & HOD, Computer Engineering, Defence College of Advanced Technology(DIAT), DRDO, India	National Level Conference "Inter Disciplinary Research on Recent Trends in Information Technology and Computer Engineering (NCRTIT 2015) In association with IJAFRC
E&TC Engineering				
1	National	09/01/2015- 10/01/2015	1. Dr. Rajkamal(Director, Medicaps Inst. of Sci. and Tech., Indore) 2. Dr. Shevgaonkar 3. Mr. Rajan Shringarpure	National Conference on"Emerging Trends in Advanced Communication Technologies "(NCETACT-15)
Production Engineering				
1	National	7/08/2014 – 8/8/2014	1.Mr. Balaji Reddy, Founder Deming Forum India. 2. Mr. Devindra Maral, Manager preseries Logistics, Volkswagan India 3. Mr. Mangesh Astekar, General Manager Forbes Marshall Ltd	National Conference on "Statistical Analysis and Computing in Engineering and Management"
Civil Engineering				
1	National	10/07/2015 - 11/07/2015	1. Mr. Ravi Ranade Director Construction diagnostics pvt.ltd 2. Mr. Om Dhawale Director GIS expert of Monarch Surveyors	National Conference on Thrust Areas in Civil Engineering (TACE 2015)

			3. Mr. A. K. Bal	
Computer Engineering Department				
1	International	20/12/2016-22/12/2016	1.Dr. S P Kochhar 2.Dr. P N Sugantham 3.Dr. B.K. Panigrahi(Asso. Professor, IIT Delhi) 4.Dr. M Arun Bhaskar (Tshwane University of Technology, South Africa) 5.Dr. Swagantam Das (Asst Prof. ISI, kolkata) 6.Dr. S S Das (Professor, SRM University)	Joint Conference of International conference on intelligence computing and application (ICICA-2016) & International conference on Power , circuit and information technology (ICPCIT-2016)
2	National	17/2/2016-18/2/2016	1. Mr. Osama Manzar (Founder& Director, Digital Empowerment Foundation, Delhi) 2 Mr. Ashish Mujumdar (Director,Delivery IT service, Cognizant, Pune)	National Conference on frontiers in computing (NCFC-2016)

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 members 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.

College has 18 MoUs which are resulted in trainings, guest lectures, faculty exchange program etc. This interaction has also provided opportunity to the students in their placements. The respective data of the placement of the students is as given below:

Table 3.48: Established Linkages/Collaborations.

SN	Activities	Established Linkages	Beneficiaries
1	Curriculum Development/Enrichment	University, BOS Members	Students, Faculty
2	Internship/On-Job Training	Thermax, Godrej, Tata Motors, JCB	Students
3	Summer Placement	SKF, Forbes Marshall, BSNL, TCS, IIT Bombay	Students
4	Faculty Exchange and Professional Development	Technova Labs	Faculty
5	Research	BCUD, NVIDIA	Faculty and Students
6	Consultancy	Thyssen Krupp	Faculty and Students
7	Extension	AutoExpo	Society
8	Publication	Springer, IRD	Researchers
9	Students Placement	Bombardier, TCS etc	Students
10	Twining Programs	No	No
11	Introduction to new courses	Open Electives	Students, Faculty
12	Students Exchange	COEP	Students
13	Any other Automobile Engineering Six Sigma Green Belt	SAE International Forbes Marshall	Student Students/Faculties

3.7.6 Detail on the systemic efforts of the Institution in planning, establishing and implementing the initiatives of the linkages/collaborations.

Any other relevant information regarding Research, Consultancy and Extension which the college would like to include.

The College is committed for the all round personality development of the students along with the technical knowledge and skills to enhance their employability. The whole process of teaching learning is augmented with systematic inclusion of periodic and frequent industrial visits, expert lectures, industrial projects etc. The curriculum is emphasized over the recent advancement in the Engineering fields along with the prescribed syllabus from the university.

Other Information

- Accreditation by TCS
- Interaction of Students with renowned Scientist - Dr. Raghunath Mashelkar
- Interaction with Industrial Consortium - INSAAN
- Industrial Training to faculty at Eureka Engineering Enterprises
- Calibration Lab of Instrumentation Dept' is financially supported by Autocal Systems, Pune to be used by the students.
- Entrepreneurs Internationals Meet is held in campus

- 34 BE Production (Sandwich) students of 2016-2017 batch are fetching a stipend of Rs.1,81,000/- per month in various reputed industries in and around Pune.

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 Institute follows norms set by AICTE and SPPU for creating and enhancing the infrastructure.
- The requirements related to the enhancement of infrastructure are collected and corrected at various levels.
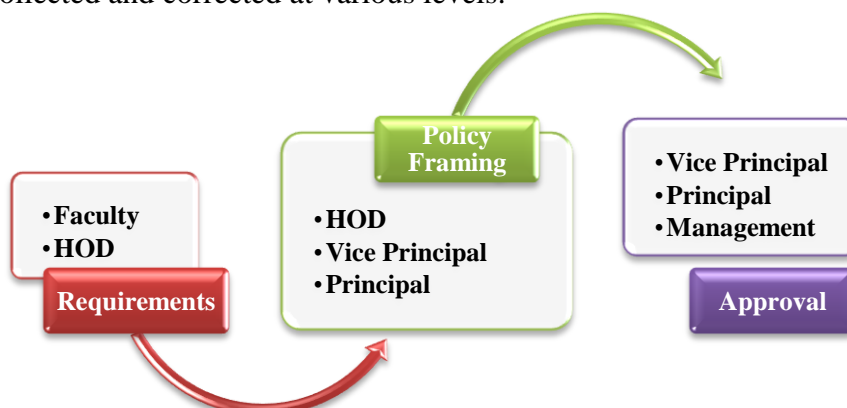
Fig: 4.1: Process of policy formation

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 equipment for teaching, learning and research etc.

The details of infrastructure facilities provided by the Institute for curricular and co-curricular activities are as follows

Table: 4.1: Infrastructural details of the Institute

SN	Facility	Particular	Total number	Area (m^2)
1	**Academic Activities**	Classrooms	36	2376
		Laboratories	67	4410
		Computer Centre	01	165
		Drawing Hall	01	165
		Language Lab	01	92
		Workshop	05	1000
		Library and Reading room	01	660
		Seminar Hall	04	561
		Auditorium	01	260
2		Principal office	01	62
		Board room	01	53

	Administrative area	Office	01	250
		HOD cabin	15	160
		Faculty room	01	45
		Central store	01	110
		Maintenance	01	60
		Security	01	30
		Pantry of staff	05	50
		House keeping	05	66
		Exam control	01	68
		Placement office	01	65
3	**Amenities area**	Boys common room	01	75
		Girls common room	01	77
		Boys hostel	01	1300
		Girls hostel	03	6643
		Canteen	01	325
		Cafeteria	01	1600
		Stationary store room	02	30
		First Aid/ Sickroom	01	12
		Guest house	01	894.2
		Sports/Gym	01	100
		Seminar Hall	01	260
		Auditorium	01	500
		Sewage Treatment Plant	01	170
		Generator room	01	35
		Electrical room	01	44

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.

Indoor Games' Facilities available in the Institute

Outdoor Games' Facilities available in the Institute

Activities

Extra Curricular Activities
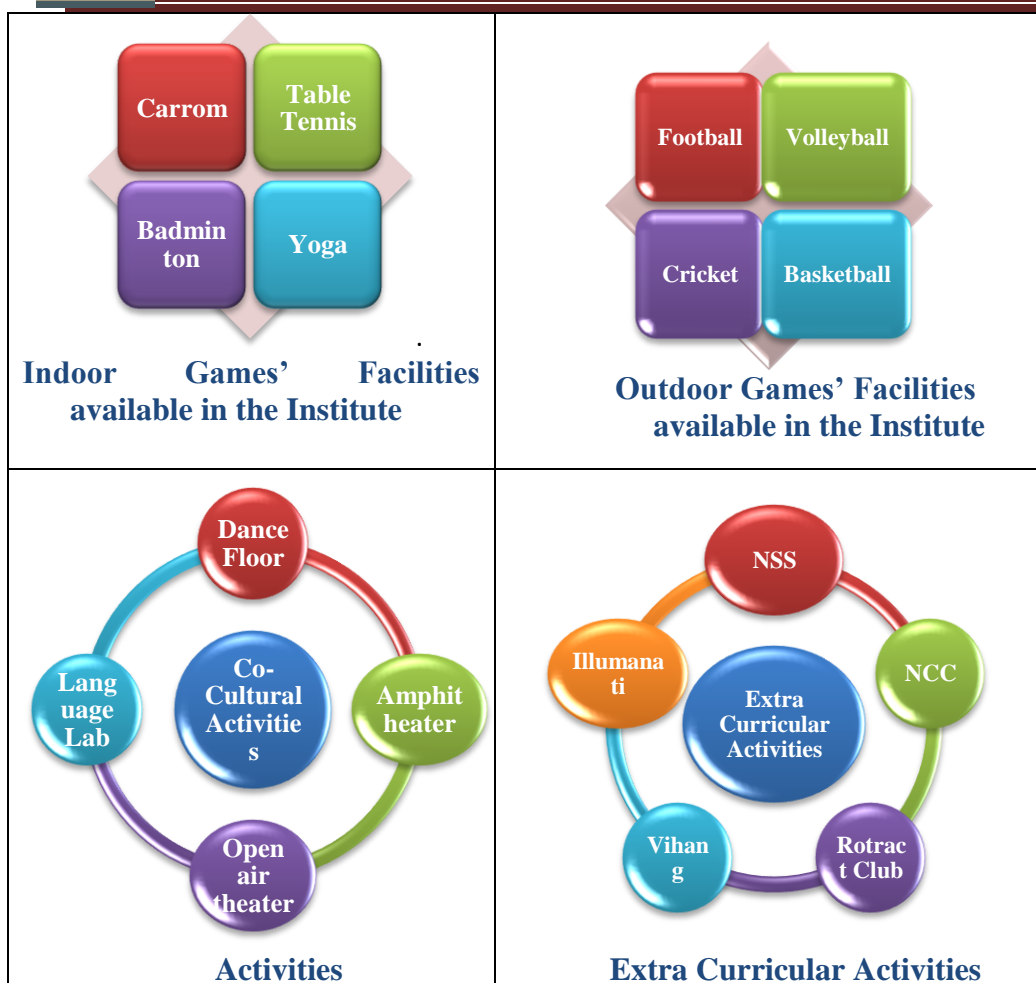
Fig: 4.2: Facilities for Co-Curricular activities

Facilities for sports, outdoor and indoor games, gymnasium, auditorium, NSS, NCC, cultural activities, language lab,medical room etc is available as per table 4.1.

4.1.3 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 amont spent during the last four years (Enclose the Master Plan of the Institution / campus and indicate the existing physical infrastructure and the future planned expansions if any).

The infrastructural facilities are provided as per AICTE requirements and have zero deficiency report obtained every year.

Since its inception in 1984, the Institute has been keeping pace with the changing needs and requirement to meet its academic growth. To keep pace with needs and requirements of the increased intake, additional infrastructure is being added from time to time.

In the last four years, various additional facilities have been developed by the Institute. The details of the amount spent on the infrastructural facilities are as follows:

Table: 4.2: Details of Amont Spent (Amount in lakhs)

SN	Addition in Infrastructure	2012-13	2013-14	2014-15	2015-16
1	Furniture and Fittings	26.79	3.3	7.6	24.71
2	Equipment and Machinery	18.65	38.34	34.67	37.32
3	Computer Equipment	73.63	55.82	44.07	30.68
4	Building	0	0	0	83.72
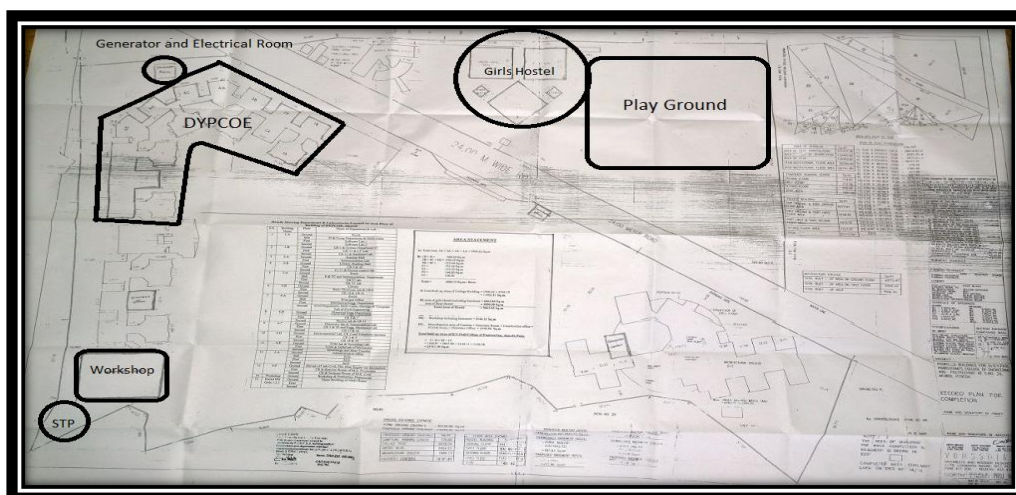
Fig 4.3 Institute Master Plan

4.1.4 How does the Institution ensure that the infrastructure facilities meet the requirements of students with physical disabilities?

Following facilities fulfill the requirements of differently - abled students:

- Ramps are provided at appropriate locations.
- Wheel chair is available.
- Institute has provided lift for the differently-abled students.

4.1.5 Give details on the residential facility and various provisions available within them:

Hostel Facility – Accommodation available
- The Institute has a girls' hostel and a boys' hostel.
- Girls' hostel is located in front of the college campus, in an area of 6643 square meter. The total available rooms in the girl's hostel are 90; with an overall capacity of 280.
- Boys' hostel is located in an area of 1300 square meter. Total number of rooms in this hostel is 46; with an overall capacity of 125.

Recreational facilities - gymnasium, yoga center, etc.
- Gymnasium and yoga center is available with skilled trainer.

Computer facility including access to internet in hostel
- Both the hostels are equipped with computers and Wi Fi connectivity, with a speed of 4 MBPS.

Facilities for medical emergencies
- Medical Room and a doctor is available daily in the hostel premises.

Library facility in the hostels
- Study room is available.

Recreational facility-common room with audio-visual equipments
- Common room with TV is made available for all the residential students.

Available residential facility for the staff and occupancy
- One guest room for parents and one VIP guest room are available in both the hostel premises.

Constant supply of safe drinking water
- Institute ensures supply of clean drinking water to students by installing water cooler and purifier in the hostel as well as the campus.

Security
- Both the hostels are well secured with the aid of CCTV cameras and guards.

4.1.6 What are the provisions made available to students and staff in terms of health care on the campus and off the campus?

A Medical room and a doctor is available daily in the Institute.

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, Counseling and Career Guidance, Placement Unit, Health Centre, Canteen, recreational spaces for staff and students, safe drinking water facility, auditorium, etc.

IQAC
- IQAC has a space of 10 sq. meters.

Grievance Redressal Unit
- The Institute has a Grievance Redressal Unit, for which a separate office of 10 sq meters is provided.

Women's Cell
- The Institute has a Women's Cell, for which a separate office of 10 sq meters is provided.

Training and Placement Cell
- The Institution has a training and placement cell with an area of 65 sq. meters. The major activities carried under this cell are: support activities for the students to aid them in placement related activities, career guidance and counseling.

Health Centre
- A Medical Room is available for emergency. Also a full time doctor is appointed for the Institute. A First Aid Unit is

available in all the departments. Students go through a yearly medical checkup organized by the Institute.

Canteen facility

- Canteen is made available for the students and staff, which consists of 365 sq. meter area. In addition, a spacious cafeteria is provided, consisting an area of 1600 sq meter.

Water Supply

- Institute ensures supply of clean drinking water to students by installing RO water purifier at various places in the campus.

Auditorium

- The Institute has provided students and staff with two spacious auditoriums:
  - Dyanprasad: 260 sq. meters
  - Shantai: 500 sq. meters.

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, Library has an advisory committee. This Committee plays a very important role in developmental activities of the library. The committee comprises of Vice Principal and one faculty member from each department.

Table 4.3: Library Advisory Committee

SN	Name of the member	Designation
1	Dr.Mrs. P.Malathi	Committee Head
2	Dr. T.Dey	Member
3	Dr. Manish Sharma	Member
4	Dr. M.S. Kaulgi	Member
5	Mr.K.D. Bamne	Member
6	Mr. A.A. Suryavanshi	Member
7	Mrs. Vaishali Kolle	Member
8	Mr. Y.G Kamble	Member
9	Mr. Pauroosh Kausal	Member
10	Mr.A.N. Palekar	Member Secretary
11	Mr. A.H.Lande	Member Secretary

- Meeting of the library committee is being conducted during each semester for the purchase of books, e-journals and printed journals. In addition to this, meeting of the committee is being arranged as and when required.
- Significant initiatives have been implemented by the committees to render the library student / user friendly:
  - Computerization of library transactions
  - Introduction of KOHA
  - Subscription of e-resources and databases

- Magazines and newspapers for general reading
- Provision of academic/reading ambience
- Internet connectivity
- e-library usages
- Display of new arrivals
- Strengthening the Book Bank for the benefit of students
- Extending reading room hours before and during the examination
- Discussing library feedback

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)**

Details of the Central Library are as follows:

- Total area: library & reading room**: 677.72 Sq Mt**
- Seating capacity (of reading room): 150

Table 4.4: Library Working hours

SN	Details	Timings
1	On working days	7.00 am to 7.00 pm
2	On holidays	-
3	Before examination	7.00 am to 7.00 am
4	During examination	7.00 am to 7.00 am
5	During Vacation	7.00 am to 7.00 pm
6	Reading Room	7.00 am to 7.00 pm

Library Layout
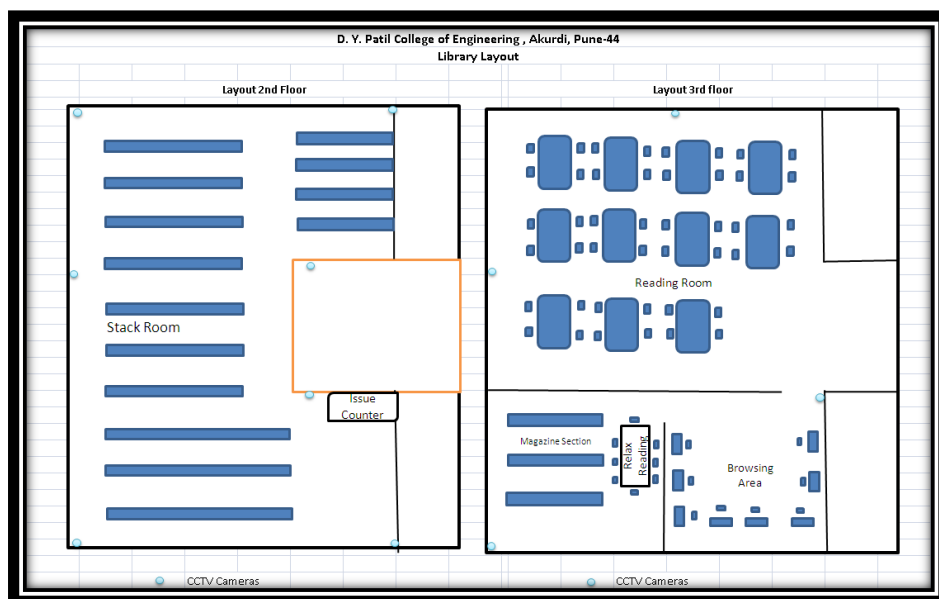
Fig 4.4 Library Layout

4.2.3 **How does the library ensure purchase and use of current titles, print and e-journals and other reading materials? Specify the amount spent on procuring new books, journals and e-resources during the last four years.**

- The Institute is very optimistic about purchase of the current titles each year.
- Every year book recommendation list is collected from each department as per the syllabus.
- Also faculty fills the library requisition form, wherein he / she can recommend books as and when required.
- The latest catalogues are available with the library and the faculties are requested to consult the same while recommending the books.
- Every year books, journals are purchased as per the received recommendations, after consultation of Library Advisory Committee.

Table 4.5 Amount spent on procuring new books, journals and e-resources during the last four years

Library holdings	2012-13		2013-14		2014-15		2015-16		2016-17	
	Number	Total Cost (Rs in Lakhs)	Number	Total Cost (Rs in Lakhs)	Number	Total Cost (Rs in Lakhs)	Number	Total Cost (Rs in Lakhs)	Number	Total Cost (Rs in Lakhs)
Text books	1410	7.14	1831	9.19	686	3.98	570	3.4	923	5.03
Reference Books	270	11.71	127	5.65	11	0.259	62	4.63	14	0.23
Journals/ Periodicals	113	1.78	131	3.11	148	4.21	99	2.86	99	2. 82
e-resources	5241	17.08	5241	17.9	5832	13.78	4260	7.65	4747	22.78
	Any other (specify)									
DELNET (E-books)	-	-	-	-	-	-	-	-	01	0.16

4.2.4 Provide details on the ICT and other tools deployed to provide maximum access to the library collection?

The Institute has provided faculty and students with the facility of accessing library KOHA through the assigned username and password anywhere, anytime from the college premises.

KOHA

KOHA is accessible in the campus. Faculty members and students can search for books by entering author, title and department.

Every year, the library subscribes following e-journals, which are accessible from anywhere in the campus.

Table 4.6: List of e journals available in the Library

SN	Publisher	Subject Areas	e-content	URL
1	IEEE AAPP + POP (Combo Pack)	Computer Engineering + Computer Science + Electrical and Electronics Engineering + Telecommunications and related disciplines	IEEE- (168 e-Journals 2011(Backfile Access since2000)	http://ieeexplore.ieee.org/
2	Springer	Electrical, Electronics and Computer Science Engineering	(149 e-Journals)(2011) Backfile Access– since 1997)	www.springerlink.com/
3	ASME	Mechanical Engineering	ASME e Journals Package(28 e-Journals)(2011) (Backfile Access– since 2000)	http://asmedl.org/ http://asmedigitalcollection.asme.org
4	ASCE	Civil Engineering	ASCE ejournalsPackage (35 e-Journals) (2011) (Backfile Access – since 1983)	http://ascelibrary.org/journals/all_journal_titles
5	J-GATE	J-GATE Engineering and Technology (JET)	4091 Full text Journals	http://www.jgate.in OR http://www.jgate.informindia.co.in
6	ELSEVIER -	Engineering + Computer Science(Electrical + Electronics + Mechanical + Civil & Structural + Aerospece + Biomedical + Industrial & Manufacturing +Ocean Engineering + Computational Mechanics & Safety Risk, Reliability & Quality + Computer	SCIENCEDIRECT 275 Journals (Back File Access from 2000 onwards)	http://www.sciencedirect.com/

		Network & Communications, Artificial Intelligence, Computer Science, Computational Theory & Mathematics, Computer Graphics & Computer – Aided Design, Information Systems, Control & System Engg & Software		
7	DELNET	General Engineering and Reference	An organization promoting resource sharing among Libraries through the development of a network of Libraries.	www.delnet.nic.in or http://164.100.24730/
8	NDL	National Digital Library: General Engineering and Reference	Repository host contents from multiple subject domains like Technology, Science, Humanities, Agriculture and others. More than 60 types of learning resources.	https://ndl.iitkgp.acc.in

Federated searching tools to search articles in multiple databases

Books can be searched by title, author, subject, keywords or publisher, edition and Journals.

Library Website

Library webpage: www.dypceaklibrary.weebly.com.

This web page provides useful information regarding entire Library collection, Library updates, newspaper clipping of the college, question paper downloads various subscribed and free resources, etc.

Library webpage is also available on the college website.

In-house/remote access to e-publications

- In-house/remote access to e-publications is available.

Library automation

- The library is fully computerized using KOHA Software.

Total number of computers for public access

- 10 computers can be accessed by the users.

Total number of printers for public access
- Printers – 03

Internet band width speed
- Internet band width/ speed- 48Mbps

Institutional Repository- Yes
- Content management system for e-learning
- NPTEL video lecture are available.

Participation in resource sharing networks/consortia (like Inflibnet)
- The College has membership with DELNET.

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**

Table 4.7 Library Details

Average number of walk-ins	257
Average number of books issued/returned	236
Ratio of library books to students enrolled	1:10
Average number of books added during last three years	2266
Average number of login to OPAC	300
Average number of login to e resources	4144
Average number of e-resources downloaded/printed	1939
Number of information literacy trainings organized	02
Details of "weeding out" of books and other materials	News papers and damaged and missing books are weeded out regularly by 6 months.

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 (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**

Table 4.8 Details of specialized services by Library.

SN	Services	Details
1.	Manuscripts	NIL
2.	Reference books	2867
3.	Reprography	01 photocopy machine is available in the library
4.	ILL (Inter Library Loan Service)	DELNET
5.	Information deployment and notification	•KOHA: The web KOHA can be used for information of library collections. •Notice Board: At Library entrance, library notice boards are provided for displaying notices/circulars and display of new arrivals. •Library Website: Information and notification are provided though Library website to students and staff.
6.	Download	E-journals subscribed by the library can be downloaded from the Digital Library
7.	Printing	Library is equipped with three printers and two scanners.
8.	Reading list/ Bibliography compilation	Yes, available.

9.	In-house/remote access to e-resources	The library has internet connectivity from where e-resources can be accessed. Also the e-resources can be accessed from anywhere in the campus.
10.	User Orientation and awareness	A library awareness program is organized every year for the first year students
11.	Assistance in searching Databases	Assistance in searching the Databases is provided by the library staff.
12.	INFLIBNET/IUC facilities	The College has membership with DELNET.

4.2.7 Enumerate on the support provided by the Library staff to the students and teachers of the college

- Detailed procedure to search and avail books from the Library is displayed on the notice board.
- An orientation program for first year students is organized every year, which briefs on facilities provided by the library.
- The library staff helps the students and faculty to check the availability of the books and the journals using KOHA module.
- The students and faculty members are informed about renewal period of the books borrowed from library through emails.

4.2.8 What are the special facilities offered by the library to the visually/physically challenged persons? Give details.

- Library staff helps physically and visually challenged person to select, borrow or return the library books.
- Audio books and Audio CD's are available for downloading through Library website.

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?)

- Yes, the Library collects feedback from faculty as well as students.
- The Library Advisory Committee analyses this feedback and suggests for improvement.
- The Committee also interacts with students to resolve the hurdles faced in issuing books.

The following improvements are done as per suggestions.

- Number of books issued is increased from 2 to 4 for UG & 3 to 5 for PG students per semester.
- Books borrowed by students can be renewed after 15 days instead of 7 days.
- Subscription to newspapers has been increased. Ten books for regular faculty.

4.3 IT Infrastructure

4.3.1 Give details on the computing facility available (hardware and software) at the Institution

Following are details on the computing facility available (hardware and software) at the Institution.

Table 4.9 No. of Computers with configuration

SN	Department	Description					
		Desktop Computers	Configuration	Laptop Computers	Configuration	Server Computers	Configuration
1	Computer	165	Dell Optiplex	5	Dell C2D, HP, Dell Vostro	5	IBM Server Intel Zeon, Dell Xeon Server
2	IT	155	Dell Optiplex , P-IV	02	Dell	03	IBM, Base Xeon
3	ENTC	162	Intel Pentium IV,HP, Dell Optiplex	02	Acer, Dual Core, Dell Vostro	-	-
4	Instru and Control	35	Dell Optiplex	01	DELL	-	-
5	Civil	40	Dell Optiplex	02	DELL Vostro	-	-
6	Mechanical	134	P IV	02	DELL Vostro	-	-
7	Production	30	Dell Optiplex	01	Dell Inspiron	-	-
8	First Year	19	Dell Optiplex	02	-	-	-
9	Computer	74	Dell	-	-	01	Dell

	Center		Optiple, Dell Vostro				PowerEdge Server
10	Library	16	Dell Optiplex	01	DELL Vostro	-	-
11	Language Lab	41	Dell Core i3	-	-	-	-
12	Administrative Office	25	Dell Optiplex Vostro, HP Compaq	-	-	-	-
13	Others	07	Dell Optiplex , Vostro	-	-	-	-
Total		903		18		09	

Table 4.10 No of Peripherals

SN	Department	Printers	Projectors
1	Computer Engineering	13	04
2	Information Technology	21	05
3	Electronics and Telecommunication	21	06
4	Instrumentation and Control	10	03
5	Civil Engineering	07	06
6	Mechanical Engineering	10	08
7	Production Engineering	04	-
8	First Year Engineering &Electrical	06	04
9	Computer Center	02	01
10	Library	03	
11	Language Lab	-	01
12	Administrative Office	17	00
13	Others	08	01
	Total	**122**	**39**

Table 4.11 List of Licensed Software's

SN	Department	Software
1	Production	Hyper mesh 10.0
		Witness Software
		Autodesk (AutoCAD) 2009
		UGNX Bundle Package (CAD\CAM)
		Minitab 17 academic single user
2	Mechanical	CATIA V5 R19 (CAD/CAM/CAE)
		Computer Software MSC Visual Nastran 4D
		UG, Nastran , FeMap
		Draft Pack
		Autodesk Mechanical Desktop 1.0
		Ansys/Ed/Linear 5.3

		Design space for MDT
		EMRC Nisa 7.0
		Visual Dbase
		AutoDesk Animator
		AutoDesk 3D studio
		Texture Universe
		Windows 95 & windows 95 upgrade
		MS Office 97
		Win NT 4.0
		MS Office 2000
		MS Windows 98
		Intelli Cad 2D & 3D CAD Solutions
		MATLAB Software
		Autocad 2009 software
		Abaqus Software
		Ansys Software
3	Civil	AUTO DESK PRODUCT AUTOCAD 2009
		AUTO DESK SUBSCRIPTION IYR
		STAAD. PRO Academic Edition 2001
4	ENTC	Microwind Software Package 3.1 (5 User)
		MATLAB(10 Users)
		Microwind Package (2 Users)
		XilinkVivado System (25 User)
		Mentor Graphics HEP1(30 User)
		MATLAB(15 Users)
		Multisim 8 Edu. Version, Spice Simulation Software Cd-02(10 User)
		Xilinx Ise Foundation Series 10:1 Latest version DVD(Multiuser)
		CADFEKO(5 User)
5	Language Lab	GOLS: Tell Me More
6	Common Facility	Cloud Vision (ERP)

Computer Student ratio

- Computer Student Ratio is 1:4

Stand alone Facility:

Institute provides dedicated computer facility to faculty with 48 Mbps internet connection. 4 Mbps Wi-Fi facilities is available with 20 access points.

LAN Facility

Institute has a structured LAN facility; whole network is in 3 tiers architecture comprising of the core, distribution and access. All the end users/workstations are connected through 10/100/1000 base ports. Total 755 nodes are connected are connected through LAN.

Firewall

Cyberoam provides firewall with various facilities like Anti Malware, Anti Spam, Web and Application Filter and Intrusion Prevention System.

Wi-Fi facility

Institute (including girls and boys hostel) is fully Wi-Fi enabled with high speed internet connectivity of 4 Mbps. Total 20 access points (13 single bands and 7 dual bands) are installed within college campus and hostel.

Any Other:

- Proxy service for wired and Wi-Fi connectivity.
- Total backup electric supply of 120 KVA.
- Laboratories are having UPS Backup facility having 20 KVA.
- Generator backup.
- ERP Software and servers.
- Central Feedback server.
- Central NPTEL server.
- Institution Website.
- Fiber Optical connections between main building and central Library

4.3.2 Detail on the computer and internet facility made available to the faculty and students on the campus and off-campus?

- Institute provides dedicated computer facility to each and every student and faculty.
- 24*7 Internet and Wi-Fi facility is available at the campus.
- Internet and Wi-Fi facility is proving for students at their hostels.

4.3.3 What are the Institutional plans and strategies for deploying and upgrading the IT infrastructure and associated facilities?

- The college upgrades the computer systems of the different laboratories as per the requirements of the University syllabus.
- All the classrooms of the college are equipped with LCD projectors.
- The Institute provides Wi-Fi facility for staff and students.

4.3.4 Provide details on the provision made in the annual budget for procurement upgradation, deployment and maintenance of the computers and their accessories in the Institution (Year wise for last four years)

Table 4.12 Annual Budgets for Last Four Years (in Lakhs)

Items	Financial Year 2016-17		Financial Year 2015-16		Financial Year 2014-15		Financial Year 2013-14	
	Allocated Budget	Expenses	Allocated Budget	Expenses	Allocated Budget	Expenses	Allocated Budget	Expenses

Computers/ S/W	80.99	73.63	61.00	58.82	48.48	44.07	33.75	30.68
Component and Lab material	2.21	2.01	13.45	12.23	51.05	46.41	8.69	7.9
Repairs Maintenance	5.82	5.29	15.99	14.54	70.66	64.24	1.84	1.67
Total	**89.02**	**80.93**	**77.92**	**70.84**	**183.12**	**166.47**	**44.28**	**40.25**

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?

- The individual departments deliver their course content through power point presentation and black board for conducting classes.
- The Institute has access to on line NPTEL video material.
- All the class rooms are well equipped with LCD projectors. All Staff rooms have the facility of computers and Internet connections.
- Students can avail the facilities of photocopying, printing and file binding in the college building.
- Online tests for placement activities are conducted.

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 center of teaching-learning process and render the role of a facilitator for the teacher.

- The Institute has access to online NPTEL videos.
- Content beyond syllabus is covered by conducting workshops and guest lectures by experts from academia and industry.
- Subject orientation programs are conducted for faculty by the subject experts.
- Online learning resources and modern classrooms provided by the Institute ensure student centric teaching – learning.
- IIT spoken tutorials are also available for enriching the student knowledge and learning skills..
- Webinars are organized in various laboratories.
- Virtual lab facility is available as the Institution has signed an MOU with College of Engineering Pune.

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?

- Yes, the Institute avails National Knowledge Network connectivity with the aid of Spoken Tutorials through IIT Bombay, NPTEL, Online webinars by IUCEE.

- The Institute has registered for National Digital Library of India; initiated by Ministry of Human Resource Development. This repository host contents from multiple subject domains like Technology, Science, Humanities, Agriculture and others. More than 60 types of learning resources are available.

4.4 Maintenance of Campus Facilities

4.4.1 How does the Institution ensure optimal allocation and utilization of the available financial resources for maintenance and upkeep of the following facilities (substantiate your statements by providing details of budget allocated during last four years)?

The Institute

- Management provides funds for maintenance work for every academic year. These funds are utilized by the Institute for different maintenance activities as stated below.

Table 4.13 Maintenance details

Type of maintenance	Resources	Remark
Civil maintenance	In house maintenance	Maintenance is carried out as per the requirement
Electrical Maintenance	In house Electrical Staff	Maintenance is carried out as per complains
Maintenance of Computing Facilities	In house Maintenance cell	Maintenance is done after getting requisition from respective department
Housekeeping	Separate Housekeeping Agency	Cleaning of class rooms, laboratories, passages open and parking area and Toilets is done daily.
AMC for Generators	Trident Services Pvt Ltd	Maintenance is carried out yearly.
Garden maintenance	In house	Garden maintenance is done regularly.
Aqua Guard ,Water Coolers	External vendors	Maintenance is done after receiving the complains

Table 4.14 Budget for maintenance of last four Academic years (in lakhs)

SN	Amount spent for	Amount Spent (In Lakhs)			
		2012-13	2013-14	2014-15	2015-16
1	Building	569.89	512.90	461.61	499.17
2	Furniture	185.89	170.45	160.52	167.58
3	Equipments	168.65	178.59	182.94	189.13
4	Computers	59.64	60.59	50.22	38.80

| 5 | Vehicles | 27.14 | 35.85 | 108.88 | 83.82 |
| 6 | Any other | 9.40 | 14.78 | 5.91 | 6.50 |

4.4.2 What are the Institutional mechanisms for maintenance and upkeep of the infrastructure, facilities and Equipment of the college?

Various committees are constituted to take care of maintenance activities in the Institute.

- Maintenance of laboratory equipments, computers and other gadgets are done whenever necessary.
- Repairs of furniture, electrical and sanitary fittings are carried out frequently.
- Adequate budget provisions are done for maintenance work every year.
- Cleanliness facilities are maintained by separate housekeeping agency.
- The corridors, toilets and garden is maintained regularly and monitored at the Institute level.

The overall maintenance system at Institute level is as given below,
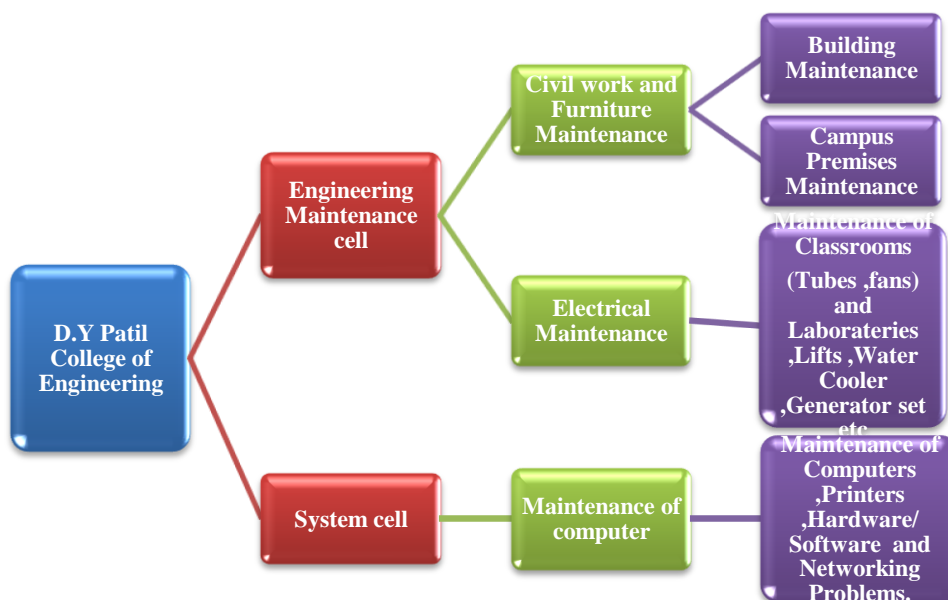
Fig 4.5 Maintenance Systems at the Institute

4.4.3 How and with what frequency does the Institute take up calibration and other precision measures for the equipment/ instruments?

- DSR verification of each laboratory is done by concerned coordinator in the end of every academic year.
- Prior to start of every semester all equipments/instruments of concerned laboratory are tested for its working condition by respective subject teacher.
- The calibration of required equipment and instruments is carried out periodically as per requirement by the respective Departments.

- A budget is prepared by the departmental budget coordinator and is sanctioned by the higher authorities for maintenance of the laboratory equipment.
- The Institute has a System Cell consisting of skilled technical staff which maintains computers software and hardware.

4.4.4 What are the major steps taken for location, upkeep and maintenance of sensitive equipment (voltage fluctuations, constant supply of water etc.)? Any other relevant information regarding Infrastructure and Learning Resources which the college would like to include

Explanation:
The major steps taken for location, upkeep and maintenance of sensitive equipments are:

- Generator 180KVA is installed in a separate ventilated room and in an organized environment for uninterrupted power supply. The generator set installation room is facilitated which is behind the campus with BC and ABC fire extinguisher.
- UPS of 600VA are given in every lab and faculty room to ensure constant power backup for PC.
- Main Circuit Breaker (MCB) is fitted in all laboratories, classroom, and faculty room and everywhere as electrical security measures.
- Aqua guard water coolers are provided on each floor in the Institute and are cleaned periodically.
- The laboratory in charge along with the technical assistant monitor the smooth working of sensitive equipments in their respective laboratories and get them repaired as per the requirement.
- Annual maintenance contracts are executed for the maintenance of UPS and generators.
- CCTV cameras are installed in all corridors, all laboratories, library and reading room. CCTV monitor is installed and supervised by higher authorities.
- Stock registers and service requests are maintained by all department.
- ATM facility just outside the campus and xerox center and General stores are within the campus.

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?

Yes. Institute publishes prospectus annually to make prospective students aware about eligibility criteria, academics, technical expertise, placement opportunities, infrastructural facilities, employability opportunities available to them. The campus tour is also digitally available on website along with students' testimonials. The prospective students also can download e-brochure through Institute website. The handbooks are also published by departments to cater academic and technical needs of students as indicated in following

Table: 5.1: List of Books and prospectus publish by Departments

Dept	Item	Class	Purpose	Frequency	%Utilization
Civil	Green Book	ME	For Tracking progress of academics	Monthly	100
	Project Diary	BE	For Tracking progress of academics	Monthly	100
	News Letter	SE,TE,BE,ME	Activities conducted in department	Monthly	50
Instru, Mech, IT, Comp	Project Log Book	BE	Project Implementation Details	2016-17	100
ENTC	Log Book	TE	To monitor progress of Project	Twice in a week	80
Comp	Student Diary	ME	Academic Progress of Seminar ,Project of Students	Monthly	100
Prod	Scope and Carrier	SE, TE and BE	To understand the Scope and Carrier of Production Engineering	Yearly	100
	Industrial In-Plant Training Booklet	TE and BE	To guide the student for 6 month in plant training	6 Months	100
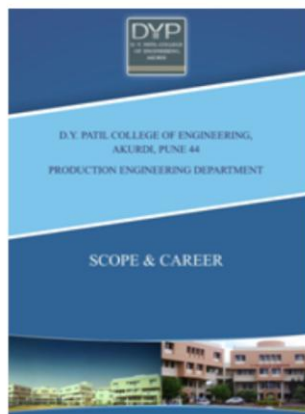
Fig: 5.1: Scope and Career   Fig: 5.2: Students Booklet
(Production Engineering Department)
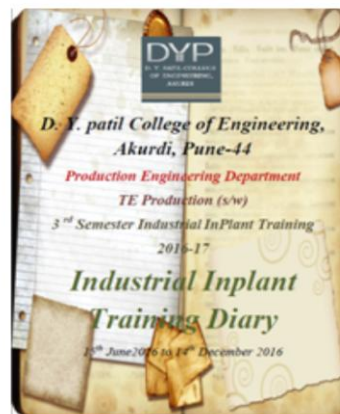
5.1.2 Specify the type, number and a MoUnt of Institutional scholarships / free ships given to the students during the last four years an whether the financial aid was available and disbursed on time?

Apart from government scholarships, needy students are given flexibility to pay fees in instalments. The meritorious students, who fetch top rank in university, are awarded full reimbursement of their fees for that academic year by Hon. Chairman Shri. Satejji D. Patil and Campus Director Col. S. K. Joshi.

Table 5.2: Fee Reimbursement to University Toppers

Dept	SN	Year	Class	Name of Student	University Rank
First Year	1	2013-14	FE	Suraj Kumar	Third
Production	1	2013-14	TE	Rohit Bajoria	First
	2	2013-14	TE	Dhiraj Upadhyay	Second

College also Provide Fee Concession to Economically Weak Student

5.1.3. What percentage of students receives financial assistance from state government, central government and other national agencies?

Norms regarding financial assistance from State Government, Central Government and other regulatory bodies are followed. The details are given below.

State Level Scholarship Details

Table 5.3: 2015-16 All Category Scholarship / free ship Approved Students List

Category						Total Students	Total Amount Received
	SC	OBC	SBC	VJ/NT	ST		
Scholarship	246	469	30	268	33	1046	10,21,18,003/-
Free ship	115	201	16	92	30	454	

Table 5.4: 2014-15 All Category Scholarship / free ship Approved Students List

Category						Total Students	Total Amount Received
	SC	OBC	SBC	VJ/NT	ST		
Scholarship	223	408	27	216	32	906	8,63,73,542/-
Free ship	101	205	15	81	30	432	

Table 5.5: 2013-14 All Category Scholarship / free ship Approved Students List

Category						Total Students	Total Amount Received
	SC	OBC	SBC	VJ/NT	ST		
Scholarship	186	343	22	171	30	752	6,43,98,010/-
Free ship	100	208	14	78	28	428	

5.1.4 What are the specific support services / facilities available for? Students from SC/ST, OBC and economically weaker sections

For Economically weaker students we provide Earn and Learn scheme, some indicative Examples are listed below.

Table 5.6: Category students benefited under Earn and Learn scheme

SN	Year	Number of Students	Facility Availed	Ref Circular/ Notice	Benefits
1	2016-17	OBC-02	Earn & Learn Scheme	01/07/2016	Economically weaker students get financial support for their education & daily expenses.
2	2015-16	Open-01 NT-B-01 NT-01 VJ A-01	Earn & Learn Scheme	31/07/2015	
3	2014-15	Open-02 NT-B-01	Earn & Learn Scheme	01/07/2014	

Students with Physical Disabilities

Department entrance is facilitated with Ramp and Lift to help physically disabled students for easy entrance. As per University norms, assistance is provided in examination. Faculty, staffs are following ethical guidelines to help such students wherever possible in campus.
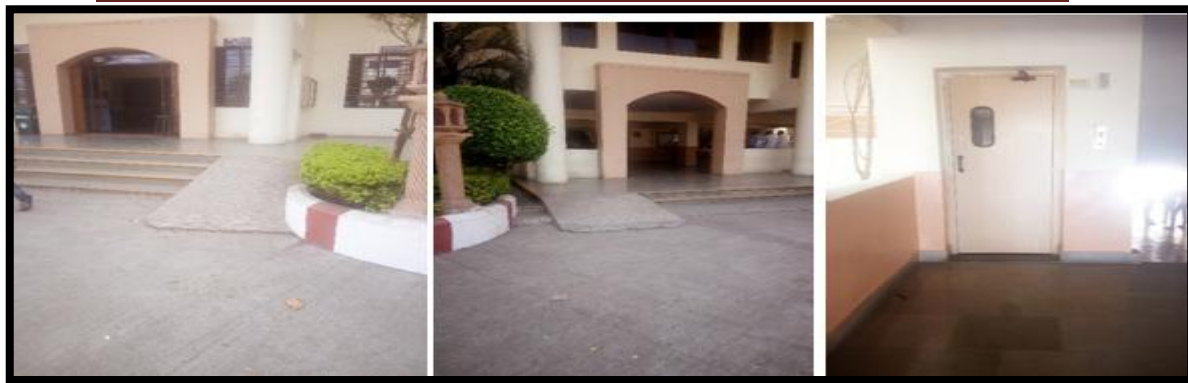
Fig: 5.3: Ramp and Lift Facility

Overseas students

The Institute has not opted for Admission to Overseas Students.

Students to participate in various competitions:

National/International

To enhance employability skills (Team Work, Presentation, Convincing, and Defending Ideas etc.) and inculcate originality, students are encouraged to participate in various competitions at state, national and international level. Faculty members encourage the students to participate competitions with extended use of all infrastructural facilities including laboratories, library etc. Faculty members help students to develop Literature Reviews, Formatting and Styling the reports, interact with industry experts. Mr. Shailesh Jatale Presented a paper in International Conference on "Emerging Research Trends in Applied Engineering and Technology" organized by Konkan Gyanpith College of Engineering. Mr. Ameyasa walkar Presented Paper in National Conference on "Statistical Analysis and Computing in Engineering and Management" organized by D Y Patil College of Engineering, Akurdi.

Medical assistance to students:
Health centre, health insurance etc.
Medical Assistance is available to all students, staff and faculty in college campus.Dr. Sheetal P. Bedis, B.H.M.S., PGCR & M, is available in all working days for giving first aid facility, consultation as and when required. The college had established links in vicinity of 5 Km area with Aditya Birla Hospital and Lokmanya Hospital for further medical assistance.
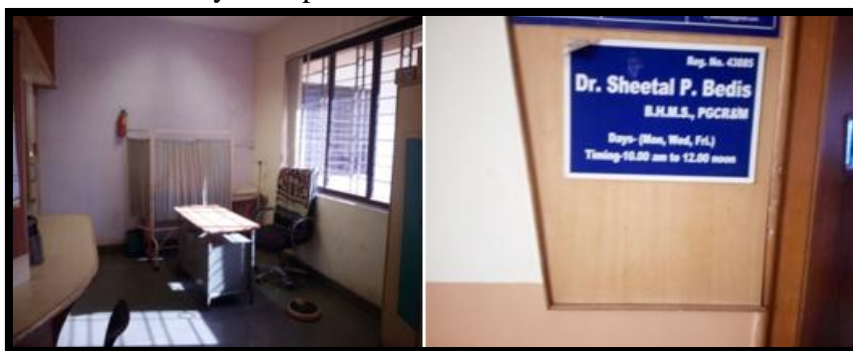
Fig 5.4: Medical Facility in College

Medical/Health Insurance Schemes is also available for students.

Organizing coaching classes for competitive exams

In First Year, students are been made aware of various employability opportunities including competitive examinations like GATE, GRE, UPSC, MPSC, etc.
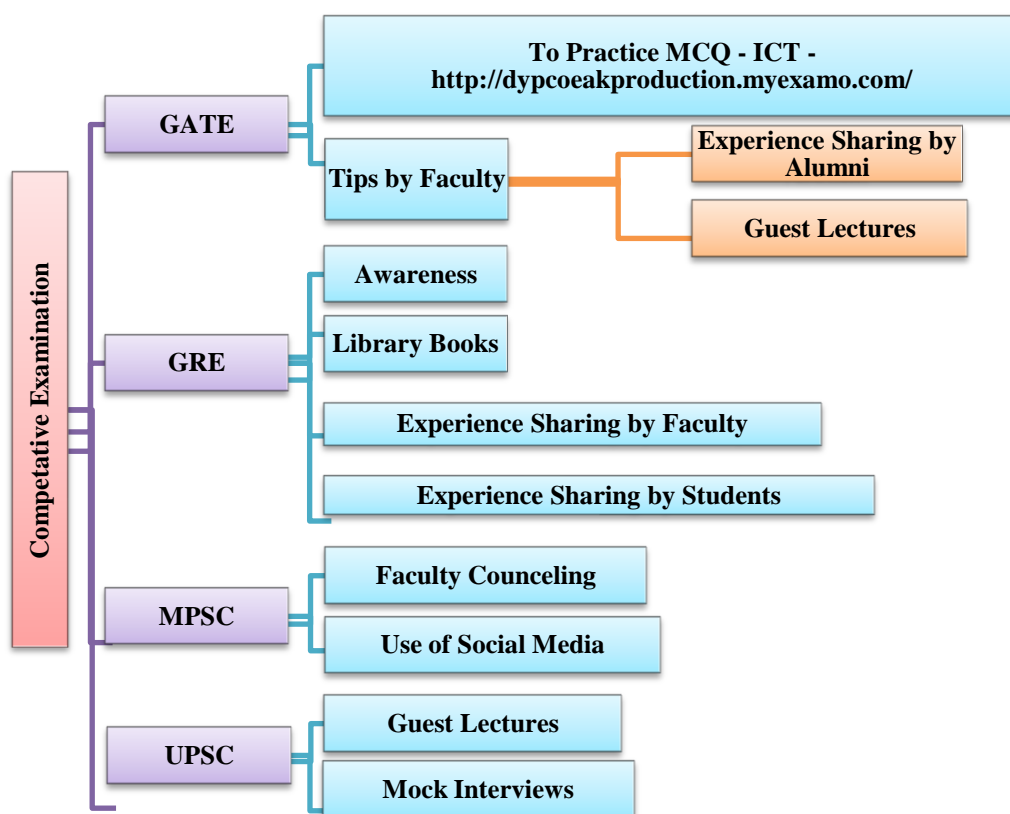
Fig 5.5: Competitive exams and facilities available in Institute

Skill development (spoken English, computer literacy, etc.)

Inculcating requisite general skills (Communication Skills) and relevant technical skills are of paraMoUnt importance to enhance employability of students. Following table shows, mechanism and efforts taken up by Institute to develop various skills in students.

Table 5.7: Skill development activities conducted by departments

Dept	Skill Development Activity	No. of Students Participated	Days	Date	Purpose	Highlights of Event
Civil	MSP	40	2	27th feb 2017	Planning and Scheduling	Understanding basics of planning and scheduling
	Stad Pro	50	2	25th feb 2017	Steel Designing	Understanding basics of steel and RCC design
	Auto Cad	40	8	1st March 2016	2D drawing Skill	Understanding basics of Auto CAD
	Hit Office	18	7	2016	ERP software	Understanding use of ERP in construction
Mech	APART	146	60 Hrs	2016-17 (Semester II)	Make the student potential for placement activity	Aptitude class, resume writing, soft skill development
	Seed InfoTech	210	90 Hrs	2015-16 2014-15 (Semester II)	Make the student potential for placement activity	Aptitude class, resume writing, soft skill development
Instru & Control	Spoken Tutorial	53	1	2016-17	To Promote self-study amongst students	Student centric learning
	Training Program under ISA	10	70 Hours (Max)	2016-17	Industry useful certifications	Training on advanced trends in Instrumentation
IT	Seed InfoTech	147	90 hrs	2015-16	To enhance aptitude and communication skills	Aptitude class, resume writing, soft skill development
	JAVA Add on Course	18	60 hrs	2015-16	To enhance technical skills	Core Java
	Barclays Aptitude & Soft skill training	146	30 hrs	2015-16	To enhance aptitude and communication skills	Group discussion, Email Writing and soft skill development

ENTC	JLPT	29	40hrs	2016-17	To make students expert in foreign languages.	Japanese Language Writing and Speaking Skills
	German	13	40hrs	2016-17	To make students expert in foreign languages.	German Language Writing and Speaking Skills
	Advance C, C++	46	30hrs	2015-16	To enhance employability skills of students in software.	Objective and programming skills
Prod	Six Sigma Green Belt	11	24 Hrs	2014-2015	To enhance employability	Statistical Analysis, Design Of Experiments Preparation
Comp	Seed InfoTech	149	90 hrs	2015-16	To enhance aptitude and communication skills	Aptitude class, resume writing, soft skill development
	JAVA Add on Course	17	60 hrs	2015-16	To enhance technical skills	To enhance core JAVA concepts

Support for slow learners

Every student in class is unique and learns at different pace, is the philosophy followed at DY Patil College of Engineering, Akurdi, Pune. Slow Learners are never considered as weak students and all faculties are directed to give extra assistance to slow learners. Apart from various academic resources like professional counseling, MOOCs, Virtual Lab (in support with COEP), NPTEL from IITs, following measures are taken up by faculty to strengthen slow learners.

Table 5.8: Methodology used for slow learners

Dept	Item	No of Students	Days	Date	Purpose	Benefits/ Feedback/ Impact
Civil, Mech, Instru	Remedial Lectures	Backlog Students	4 lectures in semester	According to scheduled time table	To clear basic fundamentals of the subjects	Improved performance of weaker students
	Re-Test	Students below passing marks	2 times every semester	2 times every semester	To improve the performance of weaker students	Improved performance of weaker students

Instru & Contr ol	Virtual Lab	64	Practical Hours	According to schedule d time table	To avail various tools of learning	Students learn the subjects curiously
	Unit Test	All Students	2 times every semester		To prepare for Insem and End Sem exams	Improved performance
	Solving Question naire	199	Every semester		To improve the performance of weaker students	Improved performance
ENTC	Remedial Lectures	SE,TE, BE students below average	7 days	02/10/20 16 to 06/10/20 16	It helps weaker students to understand difficult concepts of various subjects.	It Improves students Result
IT	Remedial Lectures	Students who are slow learners	15	End of Semester	To improve the learning skills	Improved performance
	Unit - Test	All students	3 times every semester		To prepare for in sem and end sem exams	Students will get the idea of in sem and end sem exam pattern
Comp	Prelim Test	All students	Once in a semester		To prepare for SPPU exam	Students will get the idea of in sem and end sem exam pattern
Prod	ICT	Open to all students	Throughout four years		Practice MCQs	Students get confidence for online examination
FE	Re-test	Students who are failed in unit test and Preliminary exams	Twice in a semester(One for Unit Test and one for Preliminary)		For improvement in Results	Improvement observed in test result implicated in SPPU result
	Remedial classes	For weaker students(1072+23 7)	89 lectures in sem1 and 18 lectures in sem2		For improvement in Results	Improvement observed in test result implicated in SPPU result

Exposures of students to other Institution of higher learning / corporate / business house etc.

Interaction with stakeholders is essential to develop employability in students. Students are encouraged to participate in events organized by other Institutions especially in Tier-I Institutes, NITs and IITs apart from industry and employers.

Table 5.9: Activities conducted by departments for exposure of students

Dept	Item	No of Students	Days	Date	Name of Industry/ Corporate	Benefits/ Feedback /Impacts
Civil	Industrial Visit	200 (SE)	2	22nd Sept 2016	CWPRS, Khadakwasala	In-depth knowledge of Dam
	Industrial Visit	150 (BE)	1	26 Sept 2016	JKumar Construction Shau Nagar	knowledge of Infrastructure Project.
	Industrial Visit	220 (SE)	1	25 to 27 Aug 2016	CME Material Lab, Dapodi,	knowledge of TRANSPORTATION & Structural Design
	Industrial Visit	207 BE	1	16,17,18 Feb 2017	Water treating plant, PCMC	knowledge of Environmental Engg
	Industrial Visit	208 BE	2	27th feb 2017	KoynaDam,Satara	knowledge of Spillway, Dam
Mech	Industrial Projects (Year 2015-2016)	48	-	Start of Sem-I to End of Sem-II	Siddarth Solar Technergies, Nigdi, Pune Eaton Fluid Power Limited, Pimpri, Pune Defense Institute of Advance Technology, Pune	Project helps liasioning opportunities
	Industrial Projects (Year 2014-2015)	68	-	Start of Sem-I to End of Sem-II	Alpha Hydraulics Sandvik Asia Pvt. Ltd Nirmal Enterprises Thermax Limited, Chinchwad Pune PCMC water treatment plant Nigdi Mahindra Vehicle	Industry-sponsored projects provide a valuable practical experience.
	Industrial Projects (Year 2013-2014)	44	--	Start of Sem-I to End of Sem-II	DRDO, Pashan, Pune Force Motors, Akurdi, Pune	
	Industrial Training	5	13	02/12/2016 to	Auto Point	In plant Training

(FOR AY 2016-2017)				14/12/2016	
		3	13	02/12/2016 to 14/12/2016	NOVA Bulk Handlers
		10	13	02/12/2016 to 14/12/2016	PMS Robotics
		3	13	02/12/2016 to 14/12/2016	Sharada Industries,
		5	13	02/12/2016 to 14/12/2016	Sidhakala Engineers
		4	13	02/12/2016 to 14/12/2016	Superfine Engg.
		4	13	02/12/2016 to 14/12/2016	Vedant Metal Products
	Industrial Training (FOR AY 2015- 2016	10	15	29/05/2016 to 14/05/2016	Inditech Udyog	In plant Training
		2	15	29/05/2016 to 14/05/2016	SEACO India Pvt Ltd
		5	15	29/05/2016 to 14/05/2016	PMS Robotics
		5	15	29/05/2016 to 14/05/2016	Vedant Metal Products
		15	15	29/05/2016 to 14/05/2016	Universal Auto Services
		4	15	29/05/2016 to 14/05/2016	Sidhakala Engineers
		2	15	29/05/2016 to 14/05/2016	BARC
		1	15	05/06/2016 to 20/06/2016	Tata Technologies
		1	15	29/05/2016 to 14/05/2016	Atlas Capco Nashik
		1	15	29/05/2016 to 14/05/2016	Endurance India Pvt Ltd.
Instru & Control	Industrial Projects	19	1 Year	Every Year	SAS Pvt. Ltd Pune Techtrol Electronet Equipment	Practical Exposure.
	Industrial Training	10 13	07	2016-17 2015-16	PUNE Techtrol Urjatantra Automation Enigma automation	

IT	Industrial Visit	45	1 day	17/02/2017	One Day Industrial Visit to Persistent Technology Pvt. Ltd, Pune	Insight of industrial environment and activities carried out.
	Industrial Projects	12	1 year	01/09/2016	Calsoft, Pune, Persistent,Pune Marvericks, Pune	Working on the live projects
	Industrial Visit	55	1 day	24/02/2016	One Day Industrial Visit to Persistent Technology Pvt. Ltd, Pune	Insight of industrial working.
	Industrial Visit	35	5 days	29/09/15 to 3/10/2015	Empulse Global Private Ltd., Mysore	Visit was knowledgeable related to future enhancement.
	Industrial Visit	68	1 day	28/02/2015	One Day Industrial Visit to Persistent Technology Pvt. Ltd, Pune	Insight of industrial environment and activities carried out.
E&TC	Industrial Projects	33	6 months	August, 2016 to Jan, 2017	Vishay Components, CWPRS, ARAI, e-clusters, V soft, Tirupati enterprises, Ele-com Logitech, PantechProEdetc	Opportunity to work on current electronics technologies used in industries.
	Industrial Projects	36	6 months	August 2014 to Feb, 2015	KAS Automation, CarlQ Technologies, ARDE, PCME WTP, Vodafone, C-DAC, CWPRS, Yantra Harvest, D'Cygnus Technology	Opportunity to work on current electronic technologies used in industries.
Comp	Higher Learning Workshops	35	1	13/08/2016	Abhishek Priyadarshi, Software Engineer, Raykor Technologies Pvt. Ltd. Pune.	To gain the knowledge of Android Application Development
	Industrial Visit	SE (35)	1	28/02/2015	Giant Metrewave Radio Telescope (GMRT) Khodad	Awareness of Radio Telescope technology,
Prod	Industrial Training	TE in First Sem and BE in Second Sem	6 Months	June to Nov And Dec to May	MNC's, Small Scale Medium Scale and Large Scale.	Knowledge and also placed in various industries
	Exhibition	52	1 day	05-01-2017	Mahatech Expo	Innovations in

						Automation study
	Industrial Visit	46	1 day	August 2015	Volkswagen	Automation used in automobile industries.
FE	Industrial Visit	300	1 day	21 sep,2016	Pimpri- Chinchwad Science Park,Pune	Real life problem applications
	Industrial Visit	24	1 day	28 Feb,2015	GMRT,Khodad	Exposure to Giant telescope.

Publication of student magazines

College publishes Abhivyakti every year to give platform to all creative minds, hearts and hands at work and bring social ethos in students. Apart from articles, poems, language sections, sketches and painting, academic, technical, co-curricular and extracurricular achievements are also highlighted.

The short cycle publications like Wall Magazine are also promoted to inculcate the habit of publications in students.

Table 5.10: Students Magazines and Newsletters

SN	Item	Academic Year	Type of Article	Total Contents	No of Participants
1	Wall Magazine (Instrumentation and Control Department)	2016-17	Poems Sketches Photographs	8	10
2	Newsletter	Semester wise	Achievements of Department	5	10

5.1.5. Describe the efforts made by the Institution to facilitate entrepreneurial skills, among the students and the impact of the efforts.

Table 5.11: Activities conducted by department to enhance Entrepreneurial Skills

Dept	Activities/ Guest Lecture	Academic Year	Resource Person	Date	No of Students Participated	Benefits/ Feedback /Impact
Civil	Road Safety Management	2016-17	Mr. Anil Pantoji (RTO Inspector)	20th Jan 2017	120	Awareness about Road safety
	Total Quality Management		Mr. Balaji Reddy	1July 2016	50	knowledge ofTQM
	TQM	2015-2016	Mr. Balaji Reddy	1July 2016	85	Importance of TQM
	Transfer of Development		Mr.Viraj Gawade	3rd Feb 2016	40	Transfer of

	Rights & the Compliances					Development Rights & the Compliances
	FDP (Professional Advancement of Engineering Faculty)	2014-2015	Dr.B.S.Balapgol	9/12/14	20	FDP
Mechanical	Guest Lectures	2016-2017	Mr. Kishor Arora	26/07/16	165	Hydraulics and Pneumatics
		2015-2016	Mr. Saumi Das	26/06/15	120	Opportunities with ETON India
			Dr. S. K. Panigrahi	3/7/2015	40	Composite Structures
			Dr.Sanjay Shridhar Lakade	23/02/16	110	Quality circle forum
		2014-2015	Mr. Vignesh Naidu	12 & 13/06/14	55	Applications Specialist in Industry
			Mr. S. S. Pimple	14/08/14	43	Open GL Programming
	Industrial Visits	2016-17	Saakshi Machine and Tools Pvt. Ltd.	27/06/16	20	Manufacturing Pocesses
			Deccan Honda Workshop	28/09/16	150	Dynamics of Machines
		2015-16	VIT Pune	18/08/15	182	Thermodynamics
			Tata BlueScope Steel Ltd, Pune	17/03/16	24	Design Mechanical Vibration & Air-condition
		2014-	PMPL Workshop	17/03/15	130	Applied Thermody

			15				namics
				SantTukara mSahakariS akharKarkha na, Kasarsai	23/08/1 4	134	Power Plant Engineeri ng
		2013-14		PMPL Workshop	22/03/1 4	185	Applied Thermody namics
				SantTukara mSahakariS akharKarkha na, Kasarsai	22/08/1 3	180	Thermody namics
				Bhatghar Hydro Power Station	20/03/1 4	170	Turbo Machinery
				Sahyog Auto Components , Chikhali, Pune	16/09/1 4	175	MQC
				Diety Fuel Energy Pvt Ltd Chakan, Pune	20/09/1 3	120	Energy Audit & Managem ent
				Chalkewadi Wind Power Station	22/08/1 3	130	Power Plant Engineeri ng
Instru & Control	Guest Lectures	2016-17		Mr. Anoop Nisal	22/02/1 7	45	Entrepren eral Skills improved
		2015-16		Mr. AbhijeetMur gunde	12/03/1 6	50	
Prod	Expert lecture	2016-17		Nachiket Phadake, ELENO Engineering	17th Feb 2017	105	CAE Crash Analysis used in Automobil e sector
	Expert lecture			Mr. Akshay Joshi, Asst. manager, Bharat Forge	29th Sept 2016	58	"Diffusion Coating"
	Expert lecture			Mr. V VTamboli, Advisor,	Sept 2016	61	"Recent Trends in Welding"

			ADORE Welding		
	Expert Lecture on "Career & Placement Development Guidance"	2015-16	Mr. Ashish R. Dubey Academic Program Manager, Bentley Systems , Pune	6th August 2015	75	scope in IT industry
	Expert Lecture		Mr. Praveen Deshpande from Forbes Marshell	23rd January 2015	62	Design of Experiments in Industries.
	Expert Lecture	2014-15	Mr. Satyajeet Kulkarni Deputy Manager, Forging Division ARAI	11th September 2014	52	Career building in Engineering era
	Guest Lecture		Mr. KedarKanse, General Manager Corporate Research and Engineering, Kirloskar Oil	Sept 2014	73	Role of production Engineering in corporate world.
E&TC	Introduction to Electrical & Electronic Component	2016-17	Mr. Vivek Aranke	One day 27/08/2016	36	Operation & applications of electrical & electronics components used in electronic circuits.
	PCB Design		Mr. Yogesh Bhole	Two Days 24/09/2016 to 25/09/2016	45	Hands on experience of PCB making required for electronic

					circuits.
System Design using Xilix Tool		Mr. Binay Chandra Ms. Tahera Tabassum	Three Days 6/10/2016 to 8/09/2016	19	Designing & simulation of current VLSI technologies used in industry.
Industrial Visit		Pune Techtrol Pvt. Ltd, MIDC, Bhosari, Pune.	19/09/2016 & 20/09/2016	80	Actual practical implementation of theoretical knowledge.
		Fine Automation Robotics PvtLtd, Chakan, Pune	27/09/2016	40	
		Meccalte India Pvt. Ltd, Sanaswadi, Chakan, Pune	5/10/2016	51	
		Saturo	15/12/16	12	
		BSNL Exchange, Chinchwad, Pune	25th TO 28th Jan 2017	143	
Wireless Technology	2015-16	Mr. Ranjeet Kumar	Two day 21/09/15-22/09/15	39	Interfacing of different wireless modules with embedded systems.
Robotics & Embedded C		Mr. Ravindra Singh	Two day 08/01/16-09/01/16	45	embedded processors & its programming.
PCB		Mr. Vipin	One	40	Hands on

	Designing & fabrication		Vibhute	day 1/2/16		experience of PCB making required for electronic circuits.
	Industrial Visit		BSNL Exchange, Chinchwad, Pune	16th TO 18th FEB 2016	158	Actual practical implement ation of theoretical knowledg e.
			ACS, MIDC, Bhosari, Pune	16th FEB 2016	50	
			AIR, Broadcast Station, Shivajinagar.	28th TO 29th JAN 2016	158	
			Vishay Component P Ltd, Bhosari, Pune	23rd JAN 2016	40	
			ThuseElectr oinc P Ltd,Bhosari, Pune	11th JAN 2016	50	
			IIT, Powai, Mumbai	17th Dec 2015	50 staff(E&TC &Instru)	
			Step-Up electrical P Ltd, Kuruli	2nd Sept 2015	40	
			Adroit Integrated Sys., Pune	31st Aug 2015	50	
	Mentor Graphics and Xilinx vivado	2014-15	MayurDesh mukh,	Two days 16/07/1 4- 17/07/1 4	19	Current VLSI technolog y.
	PLC Automation		Mr. KishorPatil & team,	One Day 26/7/20 14	73	PLC interfacing

			Dr. Srinivas R. Jog	One Day 09/08/14	64	Detailed operation & demo of vehicle tracking system.
	Global Positioning System					
	Modelling& Simulation Tool: COMSOL		Mr. Bikash Ghose,	One Day 10/04/2015	30	Simulation tool called COMSOL used for multiphysics.
	CUDA Workshop		Mr. Kaustubh Hiwarekar, Mr. Sandip Ganage, Mr. Sumit Harale	Three Days 21/4/2015- 23/4/15	41	Parallel computing platform and application programming interface
	Matlab& Toolboxes		Mr. Amaya Metangale,	One Day 25/1/2014	34	Different toolboxes used in MATLAB
	Industrial Visit		Gateway Mobile switching center, BSNL office, Chinchwad, Pune	23/03/2015 to 25/03/2015	153	
			Tetra communication system, Mugaon, Lavasa	18/03/2015	56	Actual practical implementation of theoretical knowledge.
			E-mpulse Global Pvt. Ltd., Mysore Doddabetta Park Telescopic view, Ooty	17/03/2015 to 22/03/2015	39	
Compu	Entrepreneurship development	2016-17	Mr. Rahil Shaikh ,Director	26/07/2016	150	Skills required to start an

ter	Workshop		CTS Pvt,LTD, RashmiVibhanayak,Perception Software Solutions			organization are shared
	Technical Talk on "Digital Forensics"	2014-15	Krishana Padale Bhavana Reddy	8th July 2014	75	Digital forensic Skills developed
	Two Days workshop on "Digital Forensics"	2014-15	KrishanaPadale Bhavana Reddy Chaitnya	25th - 26th July 2014	70	Digital forensic Skills developed
	Technical Talk on "Project Development Stages	2014-15	Mr.ArunKadekodi	25th July 2014	50	Guidelines of projects are given
	SEM-I B.E. Syllabus Guidance related to Project	2014-15	Ms.S.S.Pawar	6th Aug 2014	70	Project skills improved
	ACM Awareness Session	2014-15	Mr.Abhijeet Vichare	9th Aug 2014	75	Computer system inputs knowledge
	Mock Placement Activity	2014-15	Alumni	9th Aug 2014	40	Personal Interview Skills
	Preparation of Placement Activity	2014-15	Alumni	9th Aug 2014	50	Aptitude Skills
	MEC Awareness Session	2014-15	SanketGhorpade	12th july 2014	50	MEC Skills
	Latex Workshop	2014-15	ME.-II Students	July 2014	100	Report Skills
	Paper Writing Workshop		Dr Manish Godase	13th Sept 2014	50	Research Paper writing Skills
	Guest Lecture	2016-17	Mr. Nilesh Bhandari	25/06/2016	115	Career opportunit

					ies in IT Industry
Guest Lecture		Mr. Rajesh Kaushal	22/07/2016	40	Internet of Things
Guest Lecture		Mr. AbhijeetBashetti	23/07/2016	93	Recent trends of MongoDB in IT Industry
Workshop		Mr. Rahil Shaikh	23/07/2016	150	Skills required to become Entrepreneur
Workshop		Mr. Abhishek Mane	30/07/2016	40	Advanced Java and Hadoop
Workshop		Mr. Abhishek Priyadarshani	13/08/2016	35	Android Application Development
Guest Lecture		Mrs. SadhanaGhalsasi	14/09/2016	55	Awareness of 4G and 5G technology
Guest Lecture		Mr. Yogesh Babar	16/09/2016	108	Operating System Internals and UEFI
Guest Lecture		Dr. AbhijitVichare	19/09/2016	23	Functional Programming
Workshop		Mr. ShaileshHule	21/09/2016	20	Advanced concepts of Hadoop and Ecosystems
Guest Lecture		Mr. RavindraChandrakar	24/09/2016	138	Object Oriented Programming in C++
Guest Lecture		Mr. Sandeep Patil	07/10/2016	144	Discrete Mathematics Applicatio

					ns
Workshop		Dr. Manish Gode	26/09/2015	150	Research Paper Writing
Guest Lecture		Mr. K. V. Kokil	15/09/2015	150	Key to Project Success
Guest Lecture		Mr. VikasLonare	12/09/2015	69	Java programming
Expert Lecture		Dr. Arundhati. S. Warke	09/09/2015	150	Mathematical Modeling
Guest Lecture		Mr. ShaileshHule	07/09/2015	50	Advanced Computer Programming
Guest Lecture		Mr. Saurabh R. Deshpande	22/08/2015	63	BIGDATA & Hadoop
Technical Talk	2015-16	Mr. Bipin Kulkarni	21/08/2015	52	Cloud Computing
Guest Lecture		Mrs. SadhanaGhalsasi	25/07/2015	45	Internet of Things
Guest Lecture		Mr. AbhijeetBashetti	25/07/2015	63	Basic concepts of MongoDB
Guest Lecture		Mr. ArunKadekodi	17/07/2015	150	How to do good Projects
Roadshow seminar		Mr. AnujJajoo	16/07/2015	250	Infosys Campus ConnectFoundation Program overview
Guest Lecture		Mr. Sadik Shaikh	11/07/2015	62	Computer Forensics & Cyber Applications
Roadshow Seminar	2014-15	Mr. AnujJajoo	03/06/2014	128	Infosys Campus Connect Roadshow
Guest		Mr. Vishal	26.07.1	40	Completin

	Lecture		Pai, Founder Lumos,Creating Independent Programmers,	4		g Final Year Projects successfully and Bootstrap session on
	Guest Lecture		Mr. Satyabaji, Manager-Organization Development	31.01.2015	42	Email Communication
	Guest Lecture		Mr. T.Anand, CSI member	06/02/2015	45	Internet of Things
	Guest Lecture		Mr. Hiren Rathod	19/03/2015	63	Career Guidance
IT	Expert Lecture on "Machine Learning"	2015-16	Mr. Wasudeo Rahane, Asst. Prof. At Sinhgad School of Engineering	07/12/14	90	Machine System
	Expert Lecture on "Career & Placement Development Guidance"		Mr. Ashish R. Dubey Academic Program Manager, Bentley Systems , Pune	6th August 2015	75	Interview cracking tips
	Abroad Higher Studies Opportunities	2014-15	Mr. Ashish Joshi, M.S (Industrial Engg. USA)	Aug 2014	36	Process of higher education in abroad
	How to face Technical Interviews		Jitendra Sangar, Software Engineer,CISCO	23/8/2014	42	Technical interview
	Guest lecture on data structures		Rahul Kambale, Software Engineer at	08/09/2014	54	Practical use of data structure

		Wisdom Labs			
Guest lecture on Ethical Hacking		Mr. Rakesh Sonawane, System Analyst ,CISCO	07/12/2014	28	Ethical hacking

5.1.6. Enumerate the policies and strategies of the Institution which promote participation of students in extracurricular and co-curricular activities such as sports, games, Quiz competitions, debate and discussions, cultural activities etc.

* Additional academic support, flexibility in examinations

* Special dietary requirements, sports uniform and materials

* Any other

Institute acknowledges the applicability of Engineering courses in wide range of society including extra-curricular and co-curricular aspects for overall development of students. Sound Mind in Sound Body. Institute promote sports activities after college working hours and reserved 2 days in second semester for all students to participate in various events under Satej Karandak. The sports ground, sports material is provided to students under the guidance of physical director. The extracurricular activities named Chronos is organized every year in second semester covering wide range of activities as indicated in following table.

Table 5.12: List of Sports activities conducted at Institute level

Name of Activity	Academic Year	Purpose	Date	No of students Participated	Benefits/ Feedback/ Impact
Sports	2016-17	Annual Sports	2-4 Jan 2017	1875	Well organized
Sports	2015-16	Annual Sports	7-9 Feb 2016	1823	Well organized
Sports	2014-15	Annual Sports	20-23 Jan 2015	1808	Well organized
Quiz	2016-17	Group Discussion (GD)	13th & 14th of February 2017.	**104** Students from First Year Engg.	Logical thinking Better engagement in studies Self confidence Helpful for Future interviews of the students
	2014-15		29th January 2015	**35** Students from First Year	

Name of Activity	Academic Year	Purpose	Date	No of students Participated	Benefits/ Feedback/ Impact
Debate	2015-2017	(GD)	17th of February 2017. 29th January 2015	110	Stage confidence Leadership qualities Entrepreneurship qualities Time management
Cultural	2014-2017	Overall Personality Development	13th and 14th February 2017 11th and 12th February 2016 18th ,19th and 20th February 2015	**208 189 172**	Soft Skills and Team Work
Smart River Competition	2016-17	Planning Skill	25th Dec 2016	06	First Rank
Games	2016-17	Sportsmanship	13th Feb 2017	50 Teams	Innovative Idea and team work

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, ATE / CAT /GRE / TOFEL / GMAT / Central /State services, Defence, Civil Services, etc.

The Institute focuses on employability of students and their placement through higher studies. Apart from general infrastructural facilities students are encouraged to interact with successful alumni's through Social Media.

Table 5.13: Support and guidance provided to students for competitive exams

Dept	Name of Competitive Exam	No of Students Appeared	No of students qualified	Nature of support/guidance provided to students
Civil	Water Resources Department	20	07	Grant of study Leave and

Dept	Name of Competitive Exam	No of Students Appeared	No of students qualified	Nature of support/guidance provided to students
				conducted mock interview
Mech	GRE	5	1	Organized SEED classes for Aptitude Preparation
	GATE	115	15	
	GRE	12	3	
	GATE	100	18	Organized SEED classes for Aptitude Preparation
	GRE	20	5	
Instru& Control	GATE	31+	Results awaiting	Organized APART classes for Aptitude Preparation
	GATE	05	01	Organized SEED classes for Aptitude Preparation
	GRE	01	01	
	MBA Entrance	02	02	
	GATE	03	03	Organized SEED classes for Aptitude Preparation
	GRE	01	01	
	MBA Entrance	01	01	
IT	GATE	41	Results awaiting	1.Conducted seminar on higher studies and global opportunities 2.Organized SEED classes for Aptitude Preparation 3.Conducted seminar on recent IT trends
	CAT	4	02	1.Conducted seminar on higher studies and global opportunities 2.Organized SEED classes for Aptitude
	GATE	48	3	

Dept	Name of Competitive Exam	No of Students Appeared	No of students qualified	Nature of support/guidance provided to students
				Preparation 3.Conducted seminar on recent IT trends
	CAT	3	2	1.Conducted seminar on higher studies and global opportunities 2.Organized SEED classes for Aptitude Preparation 3.Conducted seminar on recent IT trends
	GRE	1	1	
	GATE	38	2	
ENTC	CAT	02	02	Concession in attendance. Technical guidance for preparation. Organized guest lectures on carrier guidance
	GRE	02	02	
	GATE	01	01	
	CAT	09	09	Concession in attendance. Technical guidance for preparation. Organized guest lectures on carrier guidance
	GRE	03	03	
	GATE	05	05	
	CAT	02	02	Concession in attendance. Technical guidance for preparation. Organized guest lectures on carrier
	GRE	09	09	
	GATE	06	06	

Dept	Name of Competitive Exam	No of Students Appeared	No of students qualified	Nature of support/guidance provided to students
				guidance
	CAT	03	03	Concession in attendance. Technical guidance for preparation. Organized guest lectures on carrier guidance
	GRE	05	05	
	GATE	08	08	
Prod	GATE	07	Results Awaiting	Mentoring
	GRE	03	03	Mentoring
	GATE	04	02	Mentoring
	GRE	04	03	Mentoring
	GATE	05	01	Mentoring
	GRE	04	04	Mentoring
Comp	GATE	34	6	Mentoring
	GRE	2	2	Mentoring
	GATE	4	4	Mentoring
	GRE	1	1	Mentoring

1.1.8. What type of counselling services are made available to the students (academic, personal, career, psycho-social etc.)

Engineering students have to equip themselves with various skill sets apart from success in examination. To cater this need, various types of counseling are required to be provided to students in various spans during/after contact hours. Apart from professional counselor, faculty members are also actively involved in teacher-guardian schemes as indicated in following table.

Table 5.14: Counselling Services provided to students

Dept	Type of Counseling	No of students	Activity Details	Purpose	Span	Benefits/ Feedback/ Impact
Civil	Academic Counseling	20 Students per faculty	Teacher Guardian	Academic Development	2 semesters	Attendance improved
	Psychological Counseling		Teacher Guardian	Overall Development	2 semesters	Learning Approach Changes
	Personal Counseling		Teacher Guardian	Overall Develop	2 semeste	Confidence Boosted

Dept	Type of Counseling	No of students	Activity Details	Purpose	Span	Benefits/ Feedback/ Impact
				ment	rs	
Mech	Academic Counseling	All SE, TE, BE	Teacher Guardian	Academic Development	Every semesters	Attendance improved
	Psychological Counseling	All SE, TE, BE	Teacher Guardian	Overall Development	Every semesters	Learning Approach Changes
Instru & Control	Academic Counseling	20 Students per faculty	Teacher guardian Meetings	To Improve Academic Performance	Every Semester	Improved Academic Performance
	Psychological Counseling		Teacher Guardian	Overall Development	Every Semester	Learning Approach Changes
	Personal Counseling		Teacher Guardian	Overall Development	Every Semester	Confidence Boosted
IT	Academic Counseling	20 students per batch	Teacher Guardian Scheme	Overall Development	Every Semester	Confidence Boosted
	Psychological Counseling	All students	Dr. Sapna Sharma	Overall Development	Every year	Confidence Boosted
ENTC	Psychological Counseling	20/ Faculty	Teacher Guardian Scheme Positive Attitude	Counseling	Twice in a month	Build Confidence
Prod	Academic Counseling	20 Students per batch	To enhance the attendance	Meetings, Phone Calls, SMS	Weekly	Attendance improved
	Psychological Counseling	20 Students per batch	To motivate the student	Meetings	Weekly	Learning Approach Changes
Comp	Academic Counseling	All 20/ Faculty	Teacher Guardian Scheme Academic Improvement	Daily Reporting	Daily	Improving Attendance

Dept	Type of Counseling	No of students	Activity Details	Purpose	Span	Benefits/ Feedback/ Impact
	Psychological Counseling	20/ Faculty	Teacher Guardian Scheme Positive Attitude	Counseling	Twice in a month	Build Confidence
FE	Academic Counseling	22/ Faculty	Teacher Guardian Scheme	Daily Reporting	Daily	Overall Improvement
	Psychological Counseling	600 students	Dr. Sapna Sharma	How to become a professional	6-7 sep,2016	Pshychologically stronger

5.1.9. Does the Institution have a structured mechanism for career guidance and placement of its 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).

Institute acknowledges the fact that; students do take admission to Engineering to be employable apart from acquiring technical expertise. The training and placement cell actively involved in inculcating employability skill sets from First Year onwards. The Training and Placement office is headed by Dean Placement, Training and Placement Officer and all departmental faculty and student coordinators for active participation.

The T & P faculty coordinator gives feedback to all junior students regarding placement procedure of every campus recruitment apart from providing necessary know-how before the placement. This ensures implementation of teaching for examination and employability method adopted by Institute. The Training and Placement coordinator also gives feedback to departmental faculty to reduce curriculum gaps with respect to employability of students.

Besides inviting various companies for campus recruitment, the cell aspires to:

- Arrange guest lecture of industrial experts to update and upgrade learners with hands on experience in the wake of ever changing dimensions of professionalism.
- Arrange guest lecture of alumni who are placed in reputed industries to inspire and motivate the aspiring learners.
- Arrange lectures on diverse career paths such as Indian Army, Indian Navy, Indian Air Force, ONGC, NTPCL, UPSC, GATE and TOFEL etc.
- Make concerted and consistent efforts to enhance employability through campus placements.

The specific activities to increase these efforts are given in following details.
Table 5.15: Mechanism for career guidance and placement of students.

Dept	Type of Program	No of students Benefitted	Purpose	Activity Details	Span	Date
FE	Expert Lectures	180	Awareness about placement for first year Engineering students	Corporate Etiquettes	3.30 p.m. - 5.00 p.m	**13th Jan.15**
	Expert Lectures	120		Mind Control Techniques	3.30 p.m. - 5.00 p.m	**14th Jan. 15**
	Industry Academia Interface	All branches	Institute interactions with Industry Personnel on regular basis. Also improve Academic Excellence of the students	TCS	10.00. a.m. to 11.30. a.m.	26th March 2015
				ZENSAR Technologies	12. 30. P.m. to 1.30. p.m.	26th March 2015
				FORBES MARSHALL	10.00. a.m. To 11.00.a.m.	27TH March 2015
				3DPLM Software	11.00. a.m. to 12. 00.p.m.	27th March 2015
				Kirloskar Pneumatic Co. ltd.	12.00. p.m. to 01. 00p.m.	27th March 2015
	Guest Lecture	Mech/ Civil	Demonstrated the applications and shared their experiences of real time software used in the industry.	Technical experts from **"BENTLEYSYSTEMS"**	10.30. a.m. to 2.00 p.m.	7th Sept 2015

Dept	Type of Program	No of students Benefitted	Purpose	Activity Details	Span	Date
	One Day Workshop	(E&TC) and (CS)	To get experience of Personal Interviews	ONE DAY WORKSHOP ON HOW CRACK CAMPUS INTERVIEW	E&TC) 1.30.p.m. to 5.00p.m. (CS)	25th July 2015
	Guest Lecture	CS / Instru E&TC/ IT	To guide Students regarding higher education in India.	Career Guidance Session (2018 Pass Out Batch) Topic : "How To Be Industry Ready And Build Sustainable Success"	Batch1: Time-(10am-12pm) Batch2: Time-(1pm-3pm)	22nd Feb 2017
	Guest Lecture	E&TC	To guide them regarding higher education in USA.	Career Guidance Session (2017 Pass Out Batch) Topic Higher Education In USA	3:30 pm – 5:30 pm	29th July 2016
	Expert Lecture	CS/IT	IBM Certification for employability enhancement of the students."	Technical Session by IBM Experts	10.00 a.m.to 12.00p.m.	08th July 2016

Dept	Type of Program	No of students Benefitted	Purpose	Activity Details	Span	Date
	Motivation cum Awareness Talk	All branches	To understand navy recruitment process	Motivation cum Awareness Talk by INDIAN NAVY	10.00. a.m. to 12.00p.m.	29th June 2016
Mech	SEED Training	210	To Improve Analytical & Communication Skills	GD Personal Interview Aptitude test	90hrs	A.Y.2014-15 A.Y.2015-16 (Semester II)
Instru & Control	SEED Training	71	To Improve Analytical & Communication Skills	GD Personal Interview Aptitude test	90Hrs	2015-16
ENTC	Aptitude Training by AAPART	110	To improve employability skills of students	Aptitude, logical reasoning & GD	1yr	2016-17
Comp	APART aptitude & soft skill training	88	To enhance aptitude and communication skills	Aptitude, logical reasoning & GD	90 hrs	2016-17
	Seed InfoTech	149	To enhance aptitude and communication skills	Aptitude, logical reasoning & GD	90 hrs	2015-16
	JAVA Add on Course	17	To enhance technical skills	JAVA Language	60 hrs	2015-16
	Barclays Aptitude & Soft skill training	138	To enhance aptitude and communication skills	Aptitude, logical reasoning & GD	30 hrs	2015-16
	Soft Skill and Personality Development	152	To enhance aptitude and communication skills	Aptitude, logical reasoning & GD	90 hrs	2014-15
FE	Address by Student's	650	To Get Inputs from	Aptitude, logical	1 Day	18th January

Dept	Type of Program	No of students Benefitted	Purpose	Activity Details	Span	Date
	Achievers-by Saad Memon		the passed out students	reasoning & GD		2017
Prod	Soft Skills and Aptitude	47	To enhance aptitude and communication skills	Aptitude, logical reasoning & GD	50 hrs	2016-17
	Soft Skill and Aptitude	60	To enhance aptitude and communication skills	Aptitude, logical reasoning & GD	90 hrs	2015-16

Table 5.16: Table List of Recruiters

Sr. No.	Name of Company	Sr. No.	Name of Company
1	ADP Software	62	Mphasis
2	Amdocs	63	Mu-Sigma
3	Atlas Copco	64	Mitthi Software
4	Atos Origin	65	Mather Platt
5	AGS Technologies	66	Nitoyr Infotech
6	Akrutti Developers	67	Neilsoft
7	Aloha Technologies	68	Newgen
8	Arxxus Technology	69	nVidea
9	Asahi Glass INDIA Pvt. Ltd.	70	N-gen Control Systems
10	Aker Power Gas	71	Opus Software
11	Behr India	72	Persistent Systems
12	Bitwise	73	Piaggio
13	Bridgestone	74	Pari Robotics
14	B.E Billimoria	75	Parametrix
15	Bosch	76	Pubmatic
16	Cadbury	77	Qunininox
17	Calsoft, Pune	78	Quick Heal
18	Capgemini	79	Runwal group
19	Constrologix	80	RSB Global
20	Caterpillar	81	S1 Services
21	Cybage Software	82	SKF
22	Captronics	83	S.R Constructions
23	DLF	84	Syntel
24	Enzigma Automation	85	SAP Engineers

Sr. No.	Name of Company	Sr. No.	Name of Company
25	Emerson	86	Saint Gobain
26	Emerson Innovation Centre, Hinjewadi	87	Steria
27	EDAG Engineering Solutions Pvt. Ltd.	88	Sanmmar Group
28	Equilibrium Solutions Pvt. Ltd.	89	Soma Enterprises
29	Era Group	90	Synechron
30	Electromech	91	Symantec
31	FAURECIA INDIA	92	SIEMENS
32	Fiserv	93	Simplex Infrastructure
33	Flextronics	94	Tata Consultancy services
34	Forbes Marshall	95	Thyssen Krupp
35	GKN Sinter Metals India	96	Third Ware Software
36	Godrej & Boyce	97	Tata Motors
37	Greaves Cotton	98	Tavisca Solutions
38	Harbinger Systems Pune	99	Treveni Engineering
39	HP	100	Techmahindra
40	Honeywell Automation	101	Thoughtworks
41	Henkel Adhesives	102	TVS Logistics
42	Hexaware Technologies	103	Tata Communication & Transformation Systems ltd
43	Infosys Technologies	104	Tata Communications
44	India Bulls	105	TATA ELXSI
45	iNAUTIX	106	Unity Consultants
46	iGATE	107	Unison Project Management Pvt. Ltd.
47	Intelliment Technologies	108	Universal
48	IBM	109	Vag Valves
49	Indian Army	110	Vritti Solutions
50	Indian Navy	111	Visteon Engineering
51	Infostretch	112	Varroc Group
52	Josh Software	113	VIRGO, Emerson
53	Johnson Control Automotive Ltd.	114	VI Automation
54	Johnson Control Pvt. Ltd.	115	Webinos Lab
55	Kirloskar Brothers	116	Webtech Developers
56	Knowledge Stream	117	Xtremum Solutions
57	Krawler Networks	118	Yodlee Infotech

Sr. No.	Name of Company	Sr. No.	Name of Company
58	KPIT Cummins	119	ZYCUS
59	Laxmi Civil Infrastructures Pvt. Ltd.	120	Zensar
60	L & T Infotech	121	ZF India
61	L & T - ECC	122	3DPLM Software

Table 5.17 Accreditations and MoU by T & P to enhance the employability of students

Sr. No.	Name of Company
1	Tata Consultancy Services
2	Infosys Technologies
3	Capgemini
4	Zensar Technologies

Campus Recruitment
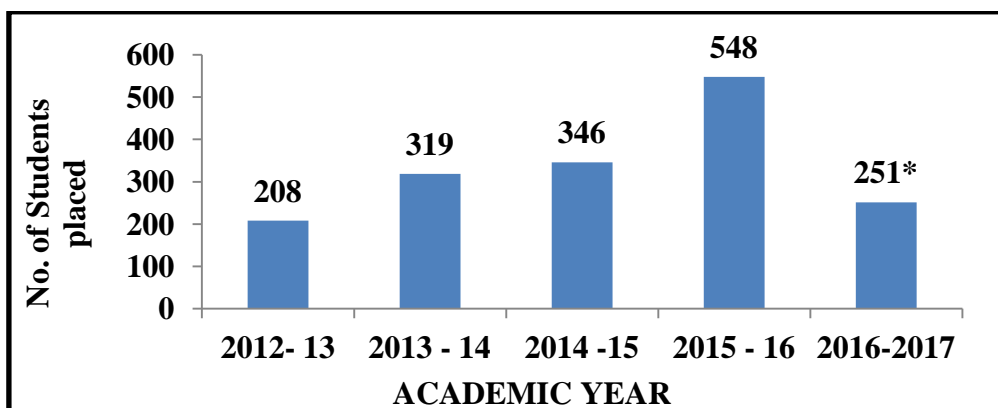
Fig 5.6: Campus recruitment of 2017 graduating batch is still in process

TOTAL NO.OF COMPANIES VISITED FOR CAMPUS RECRUITMENT
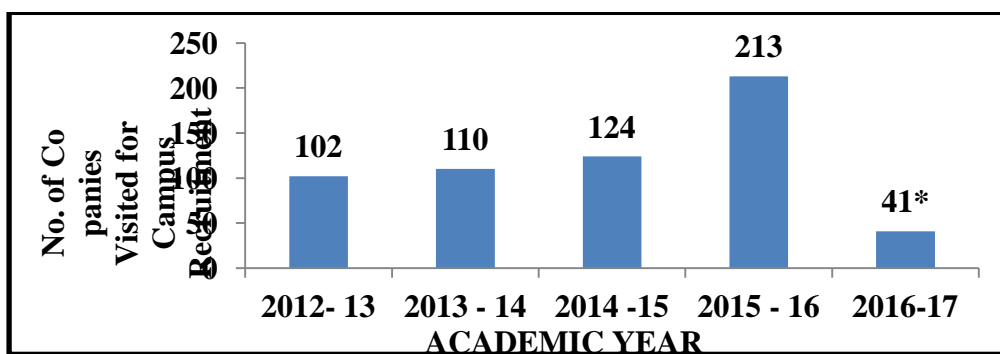
Fig 5.7: Number of recruiters visited to Campus

Campus Recruitment Branchwise

Placement for 2016-2017 Batch
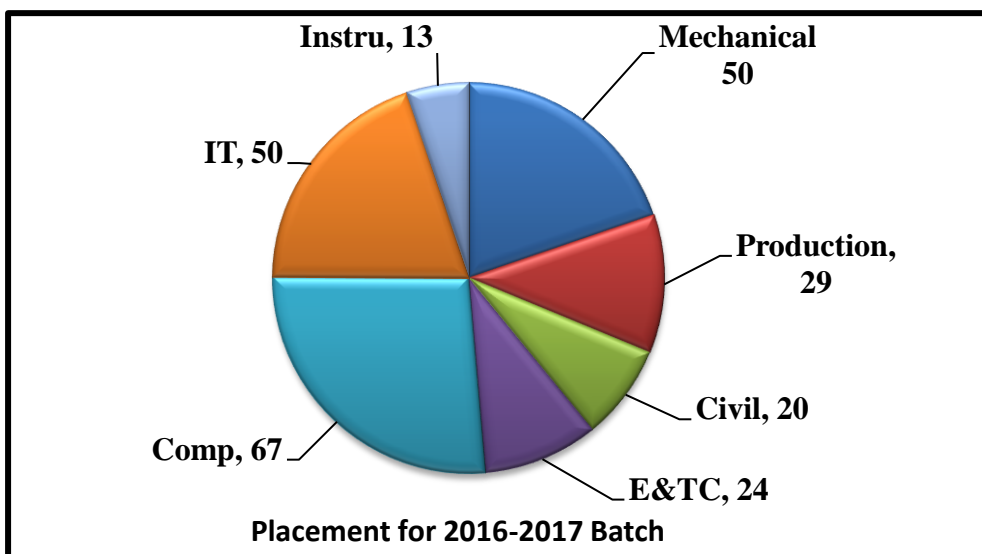
Fig 5.8: Pie Chart of Placement 2016-17 Batch

Placement for 2015-2016 Batch
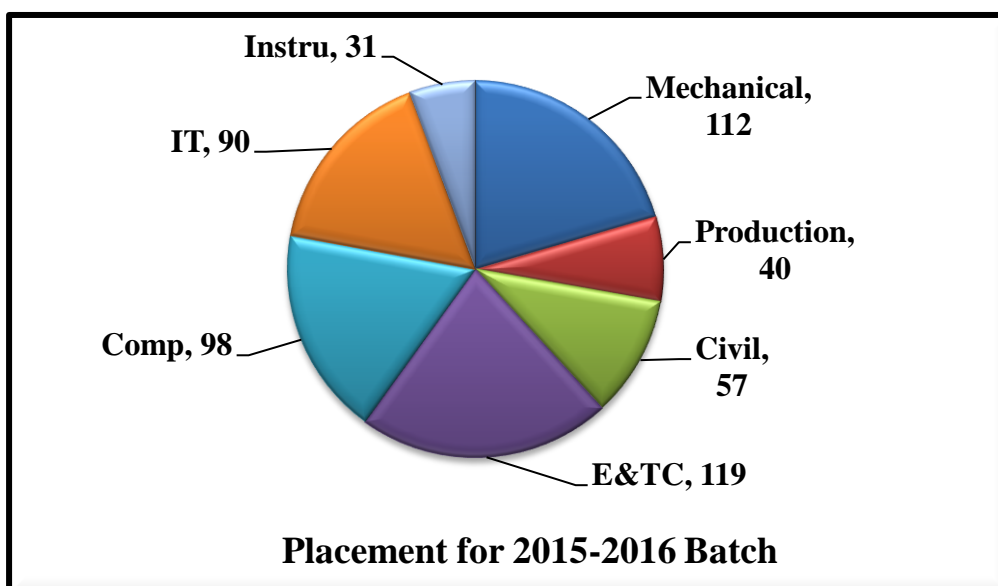
Fig 5.9: Pie Chart of Placement 2015-16 Batch

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 Institute student grievances Redressal cell helps the students to resolve issues that will affect the students' performance in general. Cell comprises of Teacher-Guardian, HoDs and Student Council Coordinator, Vice Principal and Principal. The cell addresses administrative issues, facilities rendered to students, Diversified opinions of students etc.

5.1.11 What are the Institutional provisions for resolving issues pertaining to sexual harassment?

The sexual harassment cell is formed to take necessary steps to avoid incidents pertaining to sexual harassment and also to resolve the issues as per "Vishakha Guidelines". The cell is constituted under the leadership of Vice Principal,

Faculty Lady Representative, Student Lady Representative, and Non-Teaching Lady Staff Representative in the committee. The committee arranges awareness session especially for Female Students to bring to their notice, the provisions of law under sexual harassment.

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?

Yes. Anti-ragging committee is constituted as per AICTE guidelines. First year faculty members under the chairman of Principal, Vice Principal, Hostel Warden, FE In charge, FE Faculty members, First Year to Final Year Student representatives are actively involved in till date no incident of any kind has been reported to the Institute.

5.1.13. Enumerate the welfare schemes made available to students by the Institution.

Student's welfare schemes –

- Name of student welfare officer is proposed to SPPU by DYPCOE,Akurdi
- SPPU recognises SWO of DYP by sending official letter to the principal
- SWO takes care of all the activities proposed by university (SPPU) in DYPCOE.

Following activities are run under student's welfare schemes

- Earn & Learn Scheme
- Personality Development For Girls
- Nirbhay Kanya Abhiyan
- Special Guidance Scheme
- Anti Ragging Squads
- Establishing Student Council In College
- Any Other Educational Workshops
- Gender Equality Workshop

Earn and Learn Scheme –

Table 5.18: List of students enrolled for Earn & Learn Scheme 2016-2017

SN	Name of Student	SN	Name of Student
1	Wandhekar Chaitanya Gajanan	14	Nagsen sahebrao narwade
2	Gaurav Rajendra khaimar	15	Sushil jyotiram Nirmale
3	Nikam Akshay Valmic	16	Amey Balaram Ekkaldevi
4	Shinde Pravin Mahadev	17	Digambar Sadashiv Giri
5	Jadhav Shital Bhaskar	18	Amol Narayan Shete
6	Nikita Hemant Sankpal	19	Sachin Santoshrao Katmande
7	Radha Ranganathrao Kausale	20	Rushikesh Gangadhar Ghodke
8	Komal Chandrakant Alte	21	Kande Krushna Udhav
9	Shaila Babasaheb Aware	22	Dilwale Chitali
10	Rushal Maruti Bhalerao	23	Amale Kiran
11	Sachin Balasaheb Dhumal	24	Akshay Mali
12	Vaibhav Sukhdev Pathare	25	Swapnil Kale

13	Susheel Ashok Dadhale	26	Gajanan Inamdar

Table 5.19:List of the students enrolled for Earn & Learn Scheme 2015-2016

SN	Name of Students	SN	Name of Students
1	Raj Thakur	35	Archana Ghule
2	Suraj Sakhare	36	Abhijeeet Mahale
3	Siddharam Nadgunde	37	Swapnal Dikale
4	Sumeet Nathe	38	Rushikesh Ghodke
5	Vinod Sopan Shete	39	Noorjahan Sayyed
6	Shrishchandra Wakchaure	40	Pallavi Honmale
7	Harshal Thosare	41	Pooja Rajurkar
8	Kishor Buktar	42	Priyanka Shelke
9	Yash Lokesh Kumar	43	Vrushali Kadam
10	Vishal Ramesh Sul	44	Amey Ekkaldevi
11	Bapurao Avhad	45	Akash Ankush
12	Akshay Jaywant Manjare	46	Digambar Giri
13	Shubham N Mugale	47	Tushar Gite
14	Dipak T Deokar	48	Rohan Gujar
15	Swati Makkitya	49	Harshal Gaikwad
16	Shweta Honrao	50	Jayshree Dighe
17	Raohan Sarje	51	Dyaneshwar Pawar
18	Prachi Bamhande	52	Ganesh Garkal
19	Radha Kausale	53	Anand Mukate
20	Prakash Adbule	54	Swayam Gardas
21	Gaurav Khairnar	55	Kundalik Bhoi
22	Akshay Nikam	56	Pravin Shinde
23	Abhijeet Lagad	57	Shubham Jadhav
24	Akshay Mali	58	Sachin Patil
25	Gajanan Inamdar	59	Yogesh Ahire
26	Madhav Mehtre	60	Adinath Kamble
27	Swapnil Kale	61	Sharad Kharpade
28	Geeta Narole	62	Ankita Pednekar
29	Rinku Borule	63	Shweta Toradmal
30	Vijay Baligiri	64	Akshay Bhoite
31	Aditya Karampuri	65	Hrushikesh Garje
32	Swati Anerao	66	Saurabh Fegade
33	Abhishek Sarode	67	Tanmay Naskar

Table 5.20 Welfare Schemes to students

Dept	Name of Scheme	Activities	Date	No of Students
Mech	E&L	Earn and Learn	1/8/15 to 28/2/16	7
	E&L	Earn and Learn	1/8/16 to 10/2/17	4

ENTC	E&L	Earn and Learn	01/07/2016	02
	E&L	Earn and Learn	31/07/2015	04
	E&L	Earn and Learn	01/07/2014	03
Comp	SWO Training	Laptop Repairing Workshop	30/1/2017 to 2/2/17	40
	SWO Workshop	Personality Development Workshop	31/12/2016	90
	SWO Training	CCTV workshop	24/02/2015,25/02/2015	40
FE	"Millinial and changing health care Trends"	Expert Talk	10th Feb,2017	180
IT	SWO Workshop	Laptop assembly Workshop	21/01/17-22/01/17	30

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?

Yes. Alumni Association of DYPCOE was formed in 2004 and registered under Charity Commissioner of Pune. All students passing out of DYPCOE as members of the Alumni association. The association has eleven members on its body with the Principal as Ex-Officio President, senior faculties as General Secretary and Treasurer while the remaining members are the alumni. Annual General Meet is held every year. The alumni are associated to the college and contribute to the college by delivering expert lectures on various topics, arranging industrial visits, providing project guidance and as resource persons for workshops.

Table 5.21 Major Contributions by Alumni

Dept	Name of activity	Date	Purpose	Contribution towards Department/College
Civil	Guest Lecture	27/2/2017	To share practical knowledge of the subject	Contribution towards Department
Instru & Control	Guest lecture on "Trend in Building Automation"	23/9/2015	To make students aware of upcoming technologies in Industry	Industry-Institute Interaction
	Guest lecture on "Future in Instrumentation"	12/03/2016		Industry-Institute Interaction

Dept	Name of activity	Date	Purpose	Contribution towards Department/College
IT	Guest lecture on Latest Trends in OOPS	30/07/2016	To make students Industry Employable	Industry-Institute Interaction
ENTC	Guest Lecture	22/07/2015	Recent Advancement in Solartronics	Create electric signals from natural source. And different applications.
Comp	Guest Lecture	13/08/2016	Awareness of Android App Development Technology	Advance mobile technology
	Workshop	30/07/2016	Hadoop Workshop	Recent trends in Big Data Management
Prod	Guest Lecture By Mr. Pankaj Rewade	13/09/2016	Guidance for Industrial Inplant Training	Inplant training
	Guest Lecture Mr Harshal Kulkarni	September 2016	Recent Trends in Manufacturing	Advances in manufacturing

5.2 Student Progression

5.2.1.Providing the percentage of students progressing to higher education or employment (for the last four batches)

Table 5.22 Students progressing to higher education or employment

Dept	SN	Description	Year	No of Students
Civil	1	Employment	2015-16	35
			2014-15	11
			2013-14	13
	2	Higher Education	2015-16	8
			2014-15	11
			2013-14	11
	3	Entrepreneur	2015-16	02
			2014-15	02
			2013-14	01
Mech	1	Employment	2016-2017	38
	2	Employment	2015-2016	106
	3	Entrepreneur		3

Dept	SN	Description	Year	No of Students
	4	Employment	2014-2015	56
	5	Higher Education		13
	6	Entrepreneur		2
	7	Employment	2013-2014	45
	8	Higher Education		24
	9	Employment	2012-2013	34
Instru& Control	1	Employment	2015-16	25
		Higher Education	2015-16	01
		Entrepreneur	2015-16	01
	2	Employment	2014-15	06
		Higher Education	2014-15	04
		Entrepreneur	2014-15	01
	3	Employment	2013-14	21
		Higher Education	2013-14	03
IT	1	Employment	2016-17	42
	2	Employment	2015-16	84
		Higher Education		3
	3	Employment	2014-15	58
		Higher Education		5
		Entrepreneur		2
	4	Employment	2013-14	46
		Higher Education		2
ENTC	1	Employment	2015-2016	115
		Higher Education		4
	2	Employment	2014-2015	60
		Higher Education		12
		Entrepreneur		3
	3	Employment	2013-2014	58
		Higher Education		10
		Entrepreneur		2
	4	Employment	2012-2013	29
		Higher Education		14
		Entrepreneur		2
Comp	1	Employment	2016-17	62
		Higher Education		04
	2	Employment	2015-16	88
		Higher Education		02
	3	Employment	2014-15	69
Prod	1	Employment	2016-17	06
	2		2015-16	26
	3		2014-15	20
	4		2013-14	15
	1	Higher Education	2016-17	04
	2		2015-16	07
	3		2014-15	06
	1	Entrepreneur	2016-17	02

Dept	SN	Description	Year	No of Students
	2		2015-16	03
	3		2014-15	01

Increase in inclination is observed towards entrepreneurship over the years.

5.2.2. Provide details of the programme wise pass percentage and completion rate for the last four years (cohort wise/batch wise as stipulated by the university)? Furnish programme wise detail comparison with that of the previous performance of the same Institution and that of the within the city/district.

Table 5.23: Percentage Passing Students (UG and PG) programme wise for past 4 Years

Dept	Year	Course	Percentage Passing
Civil	2016-17	SE	60.00
	2016-17	TE	50.67
	2016-17	BE	54.45
	2016-17	ME	100
	2015-16	SE	43.05
	2015-16	TE	47.62
	2015-16	BE	58.06
	2015-16	ME	100
	2014-15	SE	59.21
	2014-15	TE	41
	2014-15	BE	51.85
	2014-15	ME	100
Mech	2016-17	SE	27.31
	2016-17	TE	51.38
	2016-17	BE	79
	2015-16	SE	40.8
	2015-16	TE	53.57
	2015-16	BE	82.58
	2014-15	SE	60.35
	2014-15	TE	70.85
	2014-15	BE	94.02
Instru& Control	2016-17	SE	14
	2016-17	TE	53.62
	2016-17	BE	72.85
	2015-16	SE	43.05
	2015-16	TE	52.70
	2015-16	BE	82.05
	2014-15	SE	45
	2014-15	TE	46
	2014-15	BE	75
IT	2016-17	SE	100
		TE	99.2
		BE	100
	2015-16	SE	85.52

Dept	Year		Value
		TE	93.10
		BE	87.89
ENTC	2014-15	SE	98.61
		TE	98
		BE	98.26
	2016-17	SE	31.57
		TE	30.76
		BE	58.9
	2015-16	SE	45.27
		TE	56.84
		BE	76.41
	2014-15	SE	57.82
		TE	60.74
		BE	90.78
Comp	2016-17	BE	82
	2015-16	BE	91
	2014-15	BE	94
	2015-16	ME	100
	2014-15	ME	100
Produ	2015-16	SE	78.66
		TE	92
		BE	98.68
		ME	100
	2014-15	SE	100
		TE	91.76
		BE	100
		ME	100
	2013-14	SE	92.97
		TE	94.02
		BE	94
		ME	100
	2012-13	SE	80
		TE	96.86
		BE	100
		ME	100

5.2.3. How does the Institution facilitate student progression to higher level of education and/or towards employment?

Various types of activities are arranged for Students who willing to go for Higher Education or facilitate for Employment as listed in following table

Table 5.24: Facilitation for student's progression

Dept	Year	Programs Arranged	No of Students Participated	Benefits/Impact
Civil	2015-2016	GATE Classes	30	Basic Technical knowledge of civil Engineering

Dept	Year	Programs Arranged	No of Students Participated	Benefits/Impact
Mech	2016-17	APART Aptitude Test	146	Opportunities for Higher Studies in Abroad
	2015-16 2014-15	SEED Aptitude Classes	210	
Instru & Control	2016-17	APART Aptitude Classes	32	Employability & Communication skills
	2016-17	APART Aptitude Test	28	
	2015-16	SEED Aptitude Classes	71	
IT	2014-15	GATE Classes	36	Opportunities for Higher Studies in Abroad
	2014-15	GRE/TOFEL	36	
	2014-15	Guest Lecture	42	Students learned how to handle interviews
	2015-16	A seminar on "Recent IT trends"	26	Emerging IT technologies and its implications
Prod	2016-17	MyExamo	71	Confidence Built up on Competitive Exam Questions
ENTC	2016-17	Aptitude Training by AAPART	110	Employability& Communication skills
		JLPT	29	
		German	13	
	2015-16	Aptitude Training by SEED	145	
		JLPT	39	
		German	13	
		Advance C, C++	46	
	2014-15	Aptitude Training by SEED	145	
Comp	2016-17	Seed Infotech Company Specific Workshop	BE (Eligible students for Company Criteria)	
		Aptitude Test ,GD,PI session	TE (Marks 55% and above)	

Dept	Year	Programs Arranged	No of Students Participated	Benefits/Impact
		of APART		
		Barclay Training program for Placement	BE (Eligible students for Company Criteria)	
FE	2016-17	Sessions by T & P cell on Placement Related Activities	500	

5.2.4. Enumerate the special support provided to students who are at risk of failure and drop out?

Extra support to such students is provided through Remedial Lectures, Extra Classes and Mentoring Scheme, Solving Last Five Years Question Papers, Personal Counselling, Special Assignments etc.

Table 5.25: Activity report for students at risk of failure and drop out

Dept	Year	Activity	No. of students	Benefits/Impact
Civil	2015-2016, 2014-2015,	Remedial Lecture	SE-25 TE-30 BE-10	To improve performance in Academics
	2015-2016, 2014-2015,	Extra Classes	SE-30 TE-35 BE-20	To improve performance in Academics
	2015-2016,	Mentoring Scheme	SE-240 TE-240 BE-240	To do overall department
Mech	2016-17	Remedial Lecture	30 to 40 students/ Year	Support provided to students who are weak in academics
	2016-17	Extra Classes	All Students	Support provided to students who are having weak attendance
	2016-17	Mentoring Scheme	All Students	Confidence improvement
Instru & Control	2015-2016,	Remedial Lecture	SE-15 TE-15 BE-10	To improve performance in Academics
	2014-2015,	Extra Classes	SE-10 TE-12 BE-15	To improve performance in Academics
	2013-2014	Mentoring Scheme	20 students	Overall improvement

Dept	Year	Activity	No. of students	Benefits/Impact
			per faculty	
IT	2015-2016, 2014-2015, 2013-2014	Remedial Lecture	SE-15 TE-12 BE-10	Improve performance in Academics
	2015-2016, 2014-2015, 2013-2014	Extra Classes	SE-25 TE-20 BE-15	
	2015-2016, 2014-2015, 2013-2014	Mentoring Scheme	20 students per faculty	Academic counseling
ENTC	2015-2016, 2014-2015, 2013-2014	Remedial Lecture	35 to 45 students/ Year	Support for academically weak students
	2015-2016, 2014-2015, 2013-2014	Extra Classes	35 to 45 students/ Year	
Comp	2015-2016, 2014-2015, 2013-2014	Remedial Lecture	35 to 45 students/ Year	Support for weak students in academics
	2015-2016, 2014-2015, 2013-2014	Extra Classes	35 to 45 students/ Year	
	2015-2016, 2014-2015, 2013-2014	Mentoring Scheme	20/Mentor	
Prod	2016-17	Remedial Lecture	24	SPPU Results Improved
		Extra Classes	32	Students Concept Cleared
		Mentoring Scheme	20 Per Batch	Students personal Improvement is done, mentally as well as academically
FE	2015-2016, 2014-2015, 2013-2014	Remedial Lecture and Make up classes	200 students	Students who join late they get benefitted outof these classes.

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.

Range of Indoor and Outdoor sports facilities are available in Institute. Students are encouraged to participate in various sports, games, cultural and extracurricular activities available to students. Following are the range of activities participated/won by students.

Table 5.26: Sports, Games, Culture activities participation

Dept	Year	Activity	Days	No. of students Participated	Participation/Prizes Won
Institute	2016-17	Badminton(SPPU)	1	1	Participation
	2016-17	Table tennis (SPPU)	1	2	Participation
	2016-17	Basketball (SPPU)	1	1	Participation
	2016-17	Football(Shahu trophy)AIAAMS	3	12	Participation
	2016-17	Football(Vedant) BJ GMOE, pune	1	12	Second
	2016-17	Football(Summit) MIT Pune	5	12	Participation
	2015-16	Badminton(SPPU)	1	1	Participation
	2015-16	Table tennis (SPPU)	1	1	Participation
	2015-16	Football (Enthusia) MIT SOM college	3	7	Participation
	2015-16	Carrom	1	2	Second
	2015-16	Badminton ISB&M Pune	6	2	First
Intru& Control	2016-17	Sports	2	5	5
	2016-17	Debate	1	2	1
	2014-15	Cultural	2	1	Participation
	2016-17	Cultural	2	9	Participation
ENTC	2016-17	Sports Roadies Group Dance Co-Curricular	3 each	28 4 11 39	all participants 1group dance - Runner up Trophy + Rs 5000/-

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Dept	Year	Activity	Days	No. of students Participated	Participation/Prizes Won
					All participants
	2015-16	Sports(Badminton) (Volleyball) Sanskrit Play Reading Co-Curricular	3 each	2 1 10	1- Winner, 1- 2nd prize 1- Participants 10- Participants
	2014-15	Sports (Badminton) Roadies Group Dance Co-Curricular	3 days	12 2 3	1 Winner(8 times) 2 Participants 3 Participants
Comp	2016-17	Sports	3 days	19	Annual Sports 2nd Position
Prod	2016-17	Sports	3 Days	22	Participation
	2016-17	Games	3 Days	02	Participation
	2016-17	Cultural	2 Days	09	Participation

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.

Table 5.27: Major students achievements

Dept	Year	Activity	Days	Levels (U/S/Z/N/I)	Prizes
Institute	2016-17	Table Tennis	2	Z	4th
	2016-17	Chess	1	Z	runners
	2016-17	Chess	1	Z	runners
	2016-17	Chess	1	Z	runners
	2015-16	Table Tennis	3	Z	runners
	2015-16	Football	7	N	1st
	2015-17	Football	7	N	1st
	2016-17	NIEM, Grooves & Moves(Group dance Competition)	1	U	1st Runner Up

	2016-17	Symbiosis Karandak	1	U	Best actor
	2015-16	Firodiya Karandak	3	U	Best Bass Guitarist Best Actor Consolation Prize Best Direction Consolation Prize
	2015-16	Vinodottam Karandak	3	U	Best Play consolation Prize
	2015-16	Bharat Karandak	3	U	-Best Music Best Direction- Consolation Prize- Best Set Designing -Best Play – Third Place
Civil	2016-17	Paper Publication (9)	1	I	Participation
	2015-16	Poster Presentation	1	U	1st Prize
	2016-2017	Buoyancy in Tantrotsav	1	C	Participation(37)
		Survey Hunt	1	C	Participation(72)
		Bob the Builder	1	C	Participation(23)
		Cultural	2	C	Participation(30)
ENTC	2014-15	Sport(Badminton)	1	U	1 Winner(8 times)
	2015-16	Sports(Badminton) (Volleyball)	3	C	1- Winner, 1-2nd prize
	2015-16	Robothryst	2	C	Metrit (2)
		C Programming	1	C	Metrit (1)
	2016-17	Electro Eureka	3	C	2nd prize Electro Eureka
		Virtual Circuit Mania	1	C	3rd prize for Virtual Circuit Mania
	2016-17	Group Dance	3	C	1group dance - Runner up Trophy + Rs 5000/-
Mech	2016-17	Paper Publications	7	I	Participation
	2015-16	Paper Publications	2	I	Participation
	2014-15	Paper Publications	1	I	Participation
Instru & Control	2016-17	Paper Presentation	1	N	Runner up
	2016-17	Paper Presentation	1	U	2nd Position

	2016-17	Project competition	4	U	9th Position
	2016-17	PCB Workshop	12	U	Winners
	2016-17	Elocution Competition	1	Z	1st Position
	2016-17	Debate	1	C	1st Position
	2016-17	Dance Competition	7	U	Winner
Comp	2015-16	Co-curricular	10	N	Seed IT IDOL - 2016 7th Rank in Top 10
			1	U	ACM Best Work in Progress
Prod	2016-17	Extra Curricular	1	U	2nd Position
	2015-16	Paper Publications	1	I	Participation
	2014-15	Paper Publications	1	N	Participation

5.3.3. How does the Institute seek and use data and feedback from its graduates and employers, to improve the performance and quality of the Institutional provisions?

Alumni participation is vital in fulfilling gap between theory and practice especially in industrial/job/entrepreneurial environment. The feedback obtained from Alumni, is primarily provided to Students and used as curriculum gap filling methodology.

The progress that Alumni makes in field is shared with students and also bright alumni job profiles are highlighted in website. Alumni's help present students in placement, industrial training, guidance to seminar/projects etc

Type of Feedback: Technical, Improvement in Subject Knowledge, Placement, Curriculum Gaps, Extra Curricular Activities

Fig. 5.10: Alumni Feedback Form

Students are thus well updated about present scenario in field and future trends in various employability sectors.

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 provides various opportunities to students to publish their creativity, originality, thought process, viewpoints etc in college magazine aptly named (Abhivyakti) apart from Wall Magazines at department level. The achievements are published in departmental newsletters and also brochure/newsletters are published followed by every technical events.

Students are also encouraged to publish materials in conference proceedings, poster presentations, etc.

Centrally published college magazine, Abhivyakti is very popular amongst students and it is published by students of student council members for students under the guidance of faculty coordinator. The details are given as under.

Table 5.28: Publications by the students

Dept	Year	Name of Magazine	Content	Level (C/U/S /Z/N)	Participation/ Prizes Won
College Magazine	2016-2017	Abhivyakti 2K17 The Cosmic Dreams	Article- 43 Photography-04 Paintings-10	U	Participation
	2015-2016	Abhivyakti 2K16 Engineering Dreams	Article- 65 Photography-05 Paintings-07	U	Participation
	2014-2015	Abhivyakti Flux- Elixir	Article- 62 Photography-10 Paintings-07	U	3rd Prize from SPPU Pune
	2013-2014	Abhivyakti	Articles-55 Sketches- 20 Photography-35	U	Participation
	2012-2013	Abhivyakti 7Ages	Articles-58 Sketches- 21 Photography-36	U	First Prize from SPPU Pune

5.3.5. Does the college have a Student Council or any similar body? Give details on its selection, constitution, activities and funding.

Yes. Student Council is formulated as per rules and regulations under provision of section 40(2)(b) of the Maharashtra Universities Act, 1994 and guidelines provided by Savitribai Phule Pune University.

Every year student council is formed, where each class nominates their class representatives based on academic performance. The general secretary is elected by class representatives and other members such as LR, Cultural Secretary etc are chosen from panel of faculty experts under the guidance of Principal and Vice Principal.

The student council helps the students to bring their legitimate issues to college authorities and arrange various co-curricular and extra-curricular activities in the college campus.

Following the student council body formation for various academic years

Table 5.29: Student Council Body Academic Year 2016-2017

SN	Students Name	Class / Division/ Department	Designation	Mobile Number
1.	Mr. Prathamesh Patil	BE A [I.T.]	General Secretary	8007559191
2.	Miss. Ruchika Shinde	BE [Production]	LR (Open)	9096511701
3.	Miss.	BE B [E&TC]	LR	7745022553

SN	Students Name	Class / Division/ Department	Designation	Mobile Number
	Ashwini Lahade		(Reservation-NT)	
4.	Mr. Jelson Chacko	BE B[I.T.]	Cultural Secretary	8793740460
5.	Mr. Sufian Shaikh	BE [Civil]	Sport Secretary	9623143885
6.	Mr. Anurag Patil	BE[Mechanical]	Technical Secretary	8446900522
7.	Miss. Kira Patel	BE B [I.T.]	Magazine Secretary	7769926908
8.	Mr. Shubham S. Pore	TE[Instrumentation]	NSS Coordinator	8624882377
9.	Mr. Akshay Mane	BE[Production]	NCC coordinator	7387763282
10.	Mr. Sachin Dhumal	BE [E&TC]	Treasurer	7709606033

Table 5.30: Student Council Body Academic Year 2015-2016

SN	Designation	Name of the student	Class	Dept
1.	General Secretary	Mr. Pratik Ingale	BE	Prod
2.	Cultural Secretary	Mr. Chaitanya Joshi	BE	Mech
3.	Treasurer	Mr. Vrushabh Sovitkar	TE	Civil
4.	Sports Secretary	Miss. Sneha Bharali	BE	Instru & Control
	Sports Coordinator	Mr. Aditya Patkar	TE	Mech
5.	Ladies Representatives (Two)	Miss. Nitisha Chaudhary (Open category)	BE	I.T.
		Miss. Asha Kamble (Reservation)	BE	Comp
6.	NSS Representative	Mr. Sachin B. Dhumal	TE	ENTC
7.	NCC Representative	Mr. Palash Thakare	BE	Mech
8.	Technical Secretary	Mr. Mr. Chaitanya Kandekar	BE	Mech
9.	Magazine Secretary	Miss. Snehal Pathak	BE	I.T.

The college bears entire funding of various activities under student council. NSS is also formed and it acts as supportive to Student council.

Table 5.31: Social Activities under student's council

Dept	Year	Activity	Details
Comp	2016-17	Social	D-Mart Road cleaning, Ravet

Dept	Year	Activity	Details
		Activity	
	2015-16	Social Activity	Awareness of Open Source Software" on at New English School, Bijalinagar, Chinchwad
			Chaphekar Orphanage
	2014-15	Social Activity	Interaction , various events organized and Distribution of food at Nachiket Bal ashram Chinchwad
Civil	2015-2016	Social Activity	Tree Plantation at Water Treatment plant, Nigdi
Mech	5/09/ 2015	Social Activity	Blood Donation Camp
	15/09/2015	Social Activity	Blood Donation Camp

Table 5.32: NSS Activities

SN	Name of Event	Date
1	Tree Plantation	07th Sep.2015
2	Blood Donation	15th Sept.2015
3	Police Mitra	21st to 28th Sep 2015
4	Swachh BharatAbhiyan	2nd Oct.2015
5	Road Safety Abhiyan	6th Oct.2015
6	Winter Camp	24th to 30th Dec 2015

5.3.6. Give details of various academic and administrative bodies that have student representatives on them.

Students actively participate in academic, placement and administrative activities in college. Apart from central level activities like Students council, Robotics Club, EDC Cell, NSS, Anti Ragging Committee, Anti Sexual Harassment Cell all departments are having their students association to actively engage at micro level as indicated in following table.

Table 5.33: Students Academic and Adminstrative Bodies

Dept	Year	Activity	Student Coordinator/ Council Team	No of Members
Civil	2016-2017	Civil Engineering Student Association (CESA)	**Chairman –**Nikhil Chavan (TE) **Vice Chairman –** Rutuja Giramkar-TE A Ridhhi Komarwalliwar-TE B **Treasurer-** Jangid Ashish-TE A **Event Coordinator**- 1. Simran Monani-TE C	07

Dept	Year	Activity	Student Coordinator/ Council Team	No of Members
			2. Tanzil Alam-TE B 3.Kale Pooja-TE A	
Mech	2016-2017	Mechanical Engineering students association (MESA)	President - Sumit Kadam (BEC) Vice-President - Girish Rasal (TEB)	520
Instru & Control	2016-17	International Society of Automation(ISA) Student Chapter	President-ShridharKulkarni (TE) Vice President-GajananWattamwar(SE) Secretary-ShyamChitade (SE) Treasurer-RushabhVanjare (SE)	20
	2016-17	Students Association of Instrumentation Engineering (SAIE)	President-Rahul Goswami (TE) Vice president-KapilShegokar (SE) General Secretary-ShubhamKhedekar (BE) Treasurer- Gajanan Mane (TE) Technical- Amolbatte (TE) Cultural- Nehapharande (TE) &AkashVishwakarma (SE) Sports-MonilZankhruwala (SE) Training & Placement-RonakPurohit (TE) Wall agazine-Omkarkulkarni (TE)	192
IT	2016-17	ACMW	Chairperson- Ms. Sameeksha Ingle Vice Chairperson- Ms. Bhagyashri Adhule Treasurer- Ms. Pooja Mankawade Secretary- Ms. Dimple Khatri Web Master- Ms. Jenette Joy	10
Prod	2016-17	Production Engineering Students	President-Sudarshan Mohite Vice president-Prasanna	08

Dept	Year	Activity	Student Coordinator/ Council Team	No of Members
		Association (PESA)	Shelar Treasurer- Atharva Deshmukh Event Coordinator- Siddhesh Phadatare Bhushan Sonawane Sports- Jayprakash Yadav Training & Placement- Mayur Hawaldar Krishna Parsewar	

5.3.7. How does the Institution network and collaborate with the Alumni and former faculty of the Institution.

Institute level Alumni Coordinator is appointed to network and collaborate with the Alumni mainly through Social Media to facilitate their technical knowhow to students and faculty. Institute level Alumni Coordinator is supported by department level Alumni Coordinators along with their student representatives and alumni representatives working closely with Institute. Few representative examples are indicated in Table 5.31

Table 5.34: Collaboration with Alumni

Dept	Name of Alumni	Year of Pass out	Activity	Type of Collaboration
Civil	Anil Dhoble	2014	Guest Lecture	Technical
	Viraj Gawade	2013	Guest Lecture	Placement
	Pradip Gaikwad	2013	Guest Lecture	Technical
	Mayuresh Sant	2008	Guest Lecture	Placement
Instru & Control	Amit Amrutkar	2011-12	Guest Lecture & Workshop	Technical
	Rohan Garibe	2007-08	Guest Lecture, External Examiner, Project Evaluation	Technical
	Anoop Nisal	2006-07	Guest Lecture Project Evaluation	Placement
	TusharJadhav	2005-06	Guest Lecture External Examiner	Training
	Sandeep Hinge	2004-05	External Examiner	Technical
	Kaustubh Geetapati	2002-03	External Examiner	Placement
	SachinV.Pedhekar (Former faculty)	-	Guest Lecture,External	Technical

Dept	Name of Alumni	Year of Pass out	Activity	Type of Collaboration
			Examiner,	
IT	Mr. Abhishek Mishra	2014-15	Guest lecture on Latest Trends in OOPS	Technical
Comp	Abhishek Priyadarshi	2013-14	Workshop	Technical
	Abhishek Mane	2014-15	Guest Lecture	Placement
	Himmat Sankhla	1999	External Examiner,	Technical
	Sonali Deshmukh	2007	External Examiner,	Technical
	Sonali Patil	2008	External Examiner	Curriculum Gaps
Prod	Pankaj Rewade	2014-15	Guest Lecture	Technical Feedback
	Nikhil Deshmukh	2014-2015	Entrepreneurship	Business
	Harshal Kulkarni	2011-12	Guest Lecture	Curriculum Gaps

Interaction with Former Faculty

Faculty members of department are in personal contact with former faculty members. Former faculty members are invited to participate in various conferences/workshops/events, project exhibitions, NPTEL awareness workshops etc. Also they are invited for UG, PG Exams as per guidelines of Savitribai Phule Pune University.

CRITERION VI
Governance, Leadership and Management

6.1 Institution 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.?

Vision:
Empowerment through Knowledge
Mission:
To educate the students to transform them as professionally competent and quality conscious Engineers by providing conducive environment for teaching, learning, and overall personality development, culminating the Institute into an international seat of excellence.
Institute Objectives
- To produce technically competent, quality conscious Engineers.
- To develop functionally suitable and conducive environment for students and staff for academic purpose.
- To develop the departments into the Centre of excellence.
- To develop post graduate centers for all branches.
- To implement Effective & Efficient Teaching–Learning Practices.
- To increase percentage of campus placements.
- To strengthen Industry Institute Interaction.
- To help students for personality development and career guidance.
- To develop the students and staff to get international Acclamation.
- To develop an e-learning campus.

As per our Mission, we focus on-
- Providing a healthy environment for higher education and to supplement it with effective infrastructure resources.
- Imparting quality education to the students.
- Acquiring and sharpening appropriate learning skills, knowledge and conception.
- Improving their personality by developing the attributes of determination, initiatives skills, positive approach, optimism, scientific temper and human values.
- Updating their knowledge in different fields of specialization, familiar with the new technologies and develop their understanding towards emerging areas and requirements of society thus enhancing the scope of employability.
- Tie-up with various industries like Infosys Pune and research Institutes like COEP Pune for knowledge creation and technology development.
- For catering stakeholder's needs, the Institute has started post graduate programs and is planning to start research centers in few more disciplines.

- Institute also caters towards society development by conducting activities through NSS that develops awareness among students towards society and global issues. It also inculcates social responsibility essence among the students.

6.1.2 What is the role of top management, Principal and Faculty in design and implementation of its quality policy and plans?

- Top management of DYPCOE, Principal and faculty work together hand in hand for implementing quality policies among the Institution.
- Our leadership provides us goals, directions and support to achieve excellence in academic & administrative processes.Different roles of top management, principal and faculty in design and implementation of quality policy and plan are as follows:

Table 6.1 : Role of Top Management

SN	Actions towards achieving Mission and Vision	Responsible Authority (Management/Principal/HoD/Faculty)
1.	Measures are taken to extend technical education in rural and urban areas.	Management
2.	Striving for producing graduates of right attitude and values.	Management, Principal, Vice-Principal, Faculty members
3.	Research culture is promoted.	Management, Principal, Vice-Principal, Researchers
4.	Employment of skilled faculties fulfilling norms of the Institute/ AICTE/UGC	Management, Principal, Vice-Principal
5.	Course file and lab manuals of each subject is prepared and maintained with proper contents to maintain teaching quality.	Principal, Vice-Principal, HoD, Faculty
6.	Monitoring of lectures and practical's is done by academic monitoring committee.	Principal, Vice-Principal, HoD, Academic Coordinators of all departments
7.	Parent-teacher meet is organized. Feedback from parents assists in order to improve measures	HoDs, Faculty, TGs
8.	Faculty development programs are organized on the topics beyond the curriculum to keep the faculties updated.	Management, Principal, Vice-Principal, Hods
9.	University result analysis is done and compared with previous result and necessary actions and efforts are taken.	HoD, Faculty
10.	Expert lectures of renowned personalities from the academics and industries are organized	Principal, Vice-Principal, HoD, Faculty
11.	Infrastructure (PCs, internet, etc) has been provided to the students as per the	Management

	AICTE norms in order to achieve effective teaching learning process.	
12.	Repair & maintenance of laboratories is done as per requirements	Principal, Vice-Principal, HoD
13.	Teacher guardian scheme is implemented	Principal, Vice-Principal, HoD, Faculty
14.	Extra lectures for the lateral entry students are conducted	HoD, Faculty
15.	Effective appraisal system is implemented and motivates and appreciates faculties based on their performance.	Management, Principal, Vice-Principal, HoD
16.	Various seminars, workshops and co-curricular activities are organized	Principal, Vice-Principal, HoD, Faculty
17.	Appreciation of the students is done through various awards on annual day.	Management, Principal, Vice-Principal
18.	Frequent meetings at department and college level are conducted for interaction with teaching and non-teaching staff.	Principal, Vice-Principal, HoD
19.	Greetings from higher management to all teaching and non-reaching staff on various festivals and occasions.	Management, Principal, Vice-Principal
20.	MOU's with various industries for promoting industry Institute interaction are in process	Principal , Vice-Principal, HoD

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 fulfilment of the stated mission**

Leadership of DYPCOE, Akurdi including top management, Principal, Vice-Principal is involved in Governing Body meetings and IQAC meetings for formulation of action plans and quality policies.
Following are some policy statements formulated:
   o   To provide well equipped labs and modern classrooms.
   o   To stay connected with the outside world
   o   To improve teaching learning process
   o   To promote R&D activities for UG, PG students and faculties.

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o To identify and train students who are interested to establish their enterprise.

- **Formulation of action plans for all operations and incorporation of the same into the Institutional strategic plan**

Formulation of action plan and its incorporation is depicted in Fig 6.1.

| Meeting of Principal, Vice Principal with HoDs | Preparation of action Plan on Institution level | Meeting of HoD with Faculty members | Preparation of action Plan on Departmental level | Committee formation and allotment of roles and responsiblity |
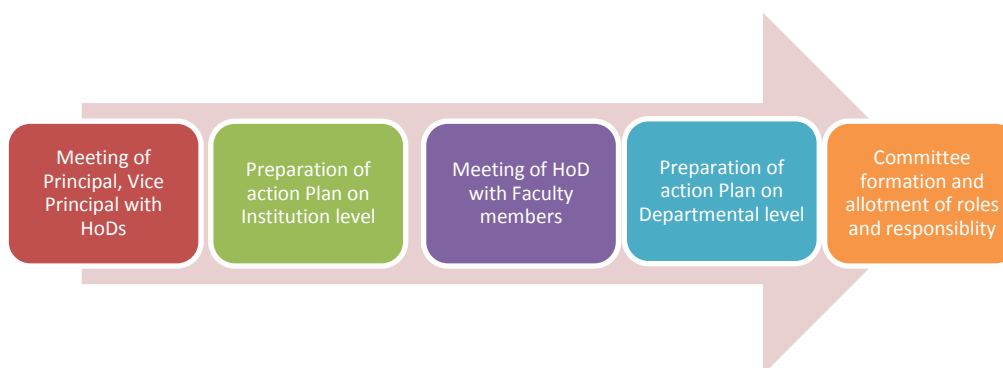
Fig. 6.1 Strategy Formulation

o Principal, Vice-Principal, Deans, Heads of the Departments and coordinators decide and prepare the action plan.
o Academic calendar for various activities is prepared by each department under the guidance of HoD and Principal.
o Academic Calendar involves list of academic, co-curricular and extra-curricular activities.
o To achieve this plan various committees like time table, academic monitoring, internal assessment test, anti-ragging, sports committee, feedback committee, etc are formulated.
o Planning like subject allotment, load distribution and time table management is done prior to commencement of semester.

- **Interaction with stakeholders**
  o Institute has strong bond/interaction with internal as well as external stakeholders.
  o Internal stakeholders play important role in policy making, implementation and reviews.
  o External stakeholders give their valuable feedbacks and suggestions to uplift the Institution.
  o Principal and Vice-principal interact with students through student council meetings. It helps to know the problems faced by students and immediate actions are taken.
  o Teacher Guardian takes frequent meetings with alloted students in order to keep track of their attendance, academic performance,etc.
  o Principal and Vice-Principal conduct meetings with HoD's in order to know the departmental progress.
  o Management greets the teaching as well as non-teaching staff on festivals and various occasions.
  o Guest lectures by Alumni are organized for the students in order to make them familiar with current trends in industry.
  o In order to interact with parents "Parent Teacher Meet" is conducted once in a semester that highlights the departmental achievements, performance of the students as well as the

activities carried out in the department for the benefit of the students.

- o Suggestions/feedbacks from parents are taken.
- o Letters are sent to parents that explain their ward's attendance as well as unit test marks.
- o SMS through ERP are also sent to the parents whose ward is absent for particular lecture or practical.
- o In order to have various competitive examinations' knowledge as well as entrepreneurship details various programs are arranged by industry experts as well as alumni.
- o HR Meet is organized every year where the HRs of the various companies are invited to have interaction with T&P team, Principal and HoD's. The main motto of this meet is to bridge the gap of industry and academia as well as to increase the placement of students.
- o Industrial visits are also planned every year so that students will understand trends in industry.

- **Proper support for policy and planning through need analysis, research inputs and consultations with the stakeholders**

Need Analysis:-

1. **Feedbacks:** Feedback from students, parents and alumni are taken to plan the academic activities. The Heads of the Departments review the departmental progress for continuous improvement in consultation with the Principal. The management supports any new plan which is for the benefit of students and progress of the Institution. Based on the employers feedback about the students placed in the preceding years, training in the areas for improvement are planned.

2. **Appraisal systems:** Appraisal system in a prescribed format is given by the management and all faculties have to give their scores with proofs. Strict check on each criteria point is done by HoD, principal and appraisal evaluation committee. Performance incentives are given to those faculty members who have constantly A+ feedback.

Research Inputs collected through Stakeholders survey:

Alumni: Alumni gives valuable feedback and suggestions which helps to keep the curriculum industry oriented.

Students: Through feedbacks students gives their views about faculties which helps them to improve in their field.

Parents: Parents who are working in relevant fields suggest us to groom students in better way.

Employers: While taking interviews in campus recruitment process, employer feedback is taken which helps us to improve in grey areas in a better way.

Industry Experts: Through expert lectures they guide students and faculties to focus on the technologies in which industries are currently working on.

Consultations with

- **Scientists:** Through guest lectures and research centre visit management motivates students and faculties to interact and gain knowledge from scientist and researchers of various fields.
- **Advisory board members:** Through inspection and audits advisory board helps the management to find out improvement areas and to prepare action plan for the same.
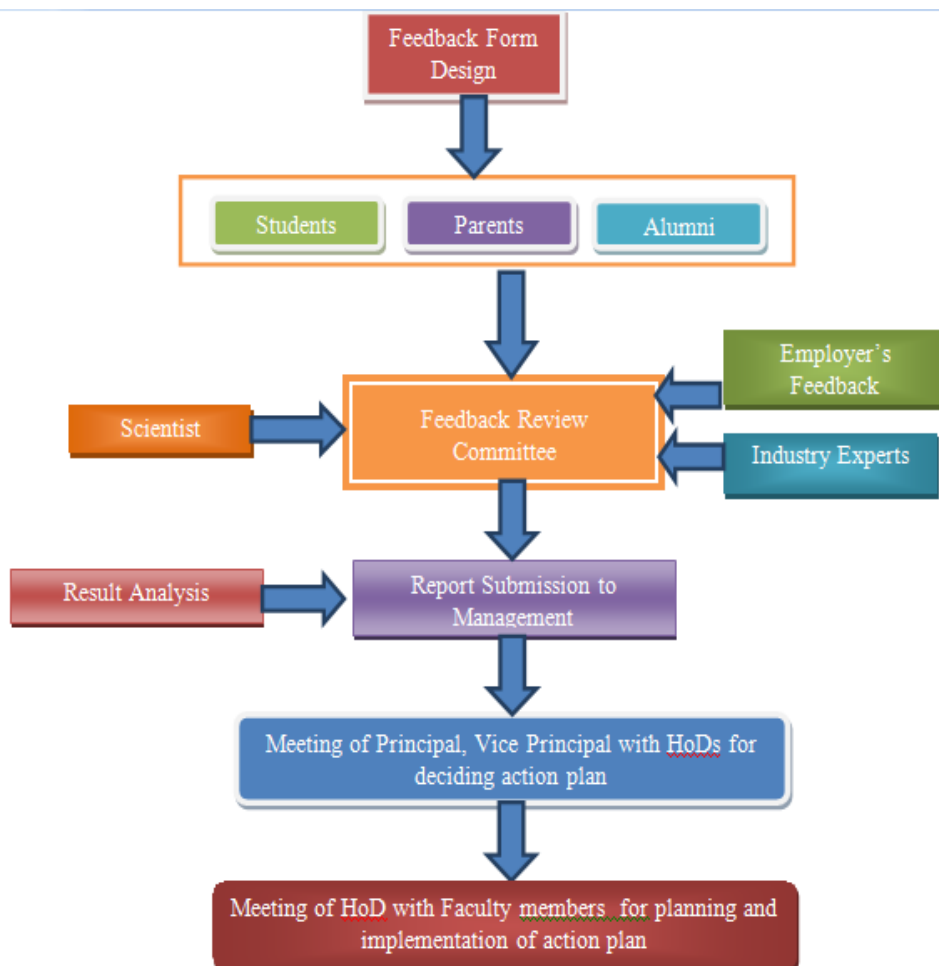
Fig. 6.3 Support for policy and planning

- **Reinforcing the culture of excellence**

  o Principal, Vice-Principal, HoD's, faculty members and non-teaching staff is committed to achieve excellence and we do attempts to achieve excellence through innovative practices.
  o Departmental academic monitoring coordinator monitors academic progress of the Institute.
  o Our teaching mechanism identifies need and areas of development of faculties and we organize training programs to bridge this gap.
  o Promote a culture which supports the development of new ideas, encourage innovation and organizational development.
  o Motivate the employees to contribute to their own and to the growth of the organization by realizing their full potential.

- o Organization of FDPs, seminars, workshops to enhance domain knowledge.
- o Financial and moral support to faculty and students to carry out the research activity.
- o Continuous assessment and analysis ensures reinforcing culture of excellence.

- **Champion organizational change**
  - o Institute got Best ISTE Chapter Award for Maharashtra and Goa section for year 2016.
  - o The Premises has been awarded first prize by PCMC for Best Garden.
  - o Institute got Best Chapter Award for Maharashtra and Goa section for year 2016.
  - o Institute got 'Best Performing College' Award at Nirmitee 2015.
  - o Got 'Best Participating College' Award by 3DPLM Inc. at Aakruti 2015.
  - o DYPCOE, Akurdi grabbed 134th position in the category of "times top 150 Engineering Institute ranking 2016".
  - o DYPCOE has signed a MoU with COEP, Pune under TEQIP project.
  - o College was Ranked 72nd at National Level in Outlook Magazine.
  - o College is accredited by TCS, Pune.

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?

- In order to have effective implementation of the policies and to monitor and evaluate the same, various committees have been formulated.
- Every committee has its objective defined to meet the proper functioning of the Institute.
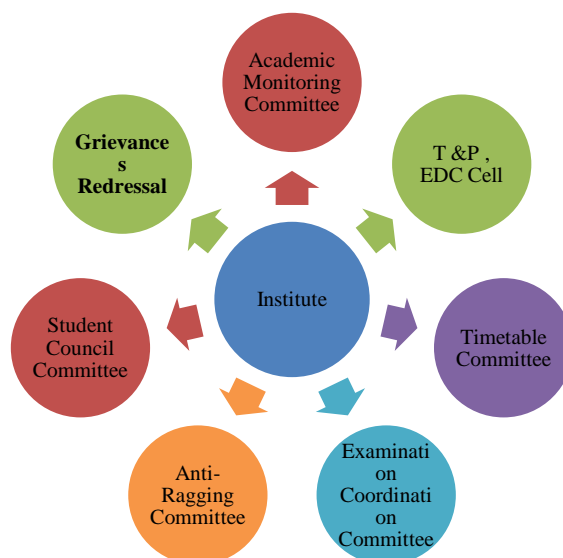
Fig. 6.4 Formation of different committees

- **Academic Monitoring Committee**

    o Members of this committee monitor the instruction delivery on a regular basis so as to record the progress in theory classes and practical sessions.
    o Feedback is taken from the students with regards to conduction of lectures and practical sessions. This feedback is conveyed to faculty for necessary action so as to improve the teaching learning process.
    o Students are allowed to organize and participate in Seminars, Conferences, Competitions, Technical Festivals, Science Exhibitions and Cultural Programmes.

- **Examination Coordination Committee**

    o College Examination Officer is appointed. All the exam related communication with university is done through him.
    o Exam coordinator is appointed at each department.
    o Conduction of tutorials/mid semester tests/mock practical examinations so as to judge the grasping of concepts by students.
    o Corrective action is taken by conducting remedial classes after declaration of results by SPPU.

- **Training and Placement/Alumni/Entrepreneurship skills development Committee**

    o Helping the students to get employment.
    o Arranging hands-on-training, industrial visits and in-plant training.
    o Arranging guest lectures by professionals from industry and academics.
    o Arranging Workshops by professionals from industry and academics.
    o Guiding students for higher education in the country and in foreign universities.
    o Arranging Alumni meet.
    o Recruiter's feedback also helps in improving Technical as well as communication skills of students.
    o HR Meet is conducted by T&P Cell in order to get the ideas of current industry requirements.
    o In order to make students capable as per industry requirements, extra session for students by SEED and Barclays are conducted.

- **Timetable Committee:**

At college level one time table coordinator is appointed and each department is having one departmental time-table coordinator. Before commencing of semester, class wise, lab wise and faculty wise timetable is made.Master time table is also made which is provided to academic monitoring committee in order to monitor the lectures and practical's smoothly.

- **Anti-Ragging Committee:**

Under Section 26(1)(g) of the University Grants Commission Act, 1956 Anti Ragging Committee is formed with definite rules are displayed on the notice board for awareness of the students. Following the amendment, DYP have procedures wherein meetings by Anti-Squad members at regular interval, Surprise visit to hostels, in campus and off campus area. Billboards and analysis of ragging consequences are displayed in all student sections; canteens, restroom, hostels, classes, auditorium, etc. Programs concerning to these activities are hosted in campus and hostels.

List of Measures taken to curb menace of Ragging:
   o Anti-Ragging Committee is formed.
   o Complaint boxes are provided at various locations in college.
   o Hostel warden – full time with cell phone-available for 24 Hrs, is exclusively appointed.
   o The punishment may also include any of the following:
   o Withholding / withdrawing scholarship / fellowship and other benefits.
   o Debarring from appearing for any test / examination or other evaluation process.
   o Rustication from the Institution for periods varying from 1 to 2 academic years.

- **Student Counselling Committee:**
   o Every year student counseling committee is formed under the guidance of senior faculty from college.
   o Head of this committee is a student who is elected by fair procedure.
   o All the student members of this committee arrange cultural and sports events in college.

- **Grievances Redressal :**

The Grievance Redressal cell works without diplomacy figuring out the reason for particular grievance as soon as it arrives. D.Y. Patil College of Engineering has taken sincere efforts to train the members of council about how to handle grievances. Faulty actions are examined on the existing and future management policies and analyzed for keeping a sense of accuracy doing justice to parties indulging in grievance.

6.1.5 Give details of the academic leadership provided to the faculty by the top management?
   o The management has given freedom to faculty members and the staff to present their suggestions and views for the development of the Institution.
   o Faculties can teach as per their subject requirements and use of teaching aids wherever possible.
   o The faculty members are made to actively get involved themselves in decision making process at all levels. They are members of class committee, student counseling, Entrepreneur Development Cell, Grievance redressal committee, purchase committee, discipline committee, alumni association, time table

committee, anti-ragging committee, hostel committee, and various committee for Institute and department level functions.

o The management has provided academic freedom to faculty members to strengthen teaching and learning.

o Effective academic leadership is provided to the faculty by the management by setting values and involving faculty in participative decision making process.

o Head of the Institution gives freedom to department heads to plan and execute academic activities.

o Performances of the faculties are monitored and accordingly potential of faculty get identified. Faculties with potential are upgraded to higher responsibilities and posts.

6.1.6 How does the college groom leadership at various levels?

The procedures adopted for creating leaders at different level is explained as below:
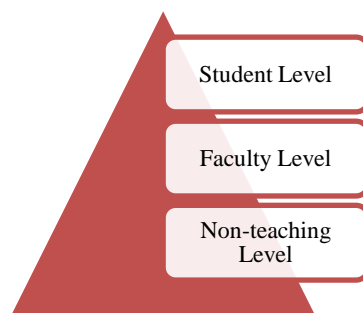
Fig. 6.5 Different Levels

- **Student Level**
    o Topper students from SE, TE and BE are identified and felicitated at College annual function.
    o Students are encouraged to participate and lead the various events at college level.
    o Class representatives (CR's) are selected from every class. They have been assigned roles and responsibilities.
    o Student Council is formed as per guidelines given by Savitribai Phule Pune University.
    o Apart from Student Council various student committees like VIHANG art Circle, Rotaract club etc are formed.
    o Students are provided with platforms where they can participate in various seminars/guest lectures, paper presentation at national level conference and so on.
    o Various workshops (e.g. PC Assembly) are conducted where students teaches to other junior students.
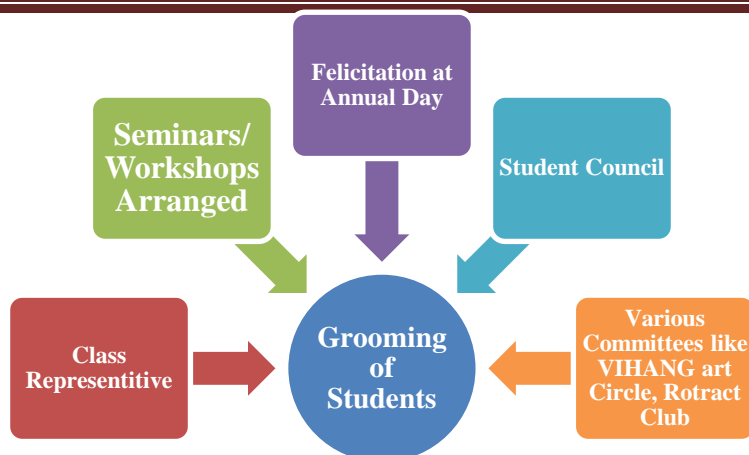
Fig. 6.6 Grooming at student Level
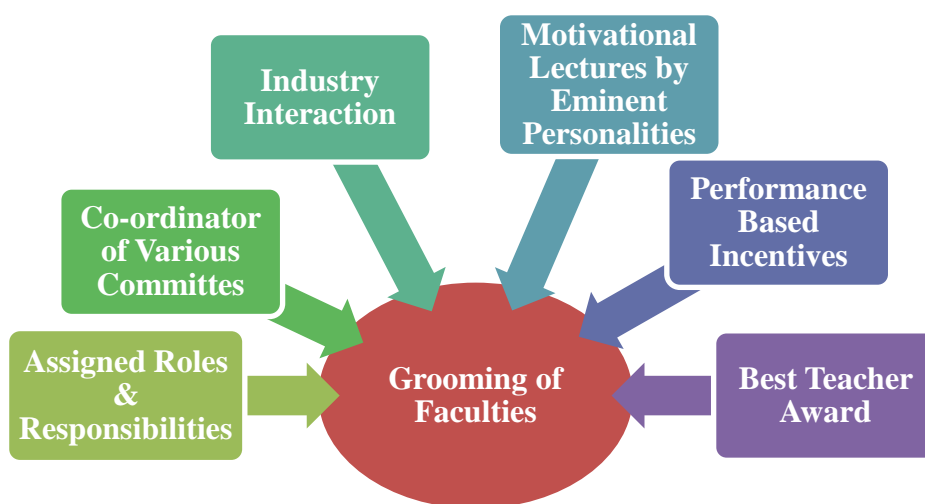
Fig 6.7 Grooming at Faculty Level

o In order to bring out leadership qualities in faculties, they have been assigned various roles and responsibilities.

o They have been appointed as coordinator of various committees like NBA, NAAC at college level.

o Faculties are also provided with the platform to have industry interaction.

o Motivational lectures by eminent personalities are organized for faculty.

o Based on appraisal report, performance based incentives are given to faculties.

o Best teacher award to the faculty is given during annual day.

o Picnic for teaching and non-teaching staff was arranged in nearby area like Girivan Resort and Prathmesh Farm House.

o Few senior faculty members deputed to attend National Teachers Congress organized by MIT college of Engineering Pune.

o Head of the Department got chance to attend World Summit on Accreditation (WOSA) in 2015 and 2016 organized by NBA at New Delhi.

- **Non-teaching Level**
  - Non-teaching staff is encouraged to upgrade their qualifications.
  - Motivational lectures are arranged for staff by management.

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?

- **Institute Level:**
  - The major decisions which have a bearing on the functioning of the Institution is through the Governing Council and the Board of Management. The decisions taken are passed on to Principal of the Institution. Principal is empowered to take a decision in the interest of the college with advice of the management.
  - The Institute has an organization structure where in the work is divided among the faculty members such as: Dean Administration, Dean Academics, Registrar, coordinator Research and consultancy, Training and Placement officer, Examination section, Hostel coordinator etc. Each coordinator and the members are authorized to plan independently the events to be conducted for a year with the approval of the Principal.
  - At the department level, Head of department can take the decisions that will help in smooth functioning of the department. The respective coordinators are responsible to organize activities in the department.
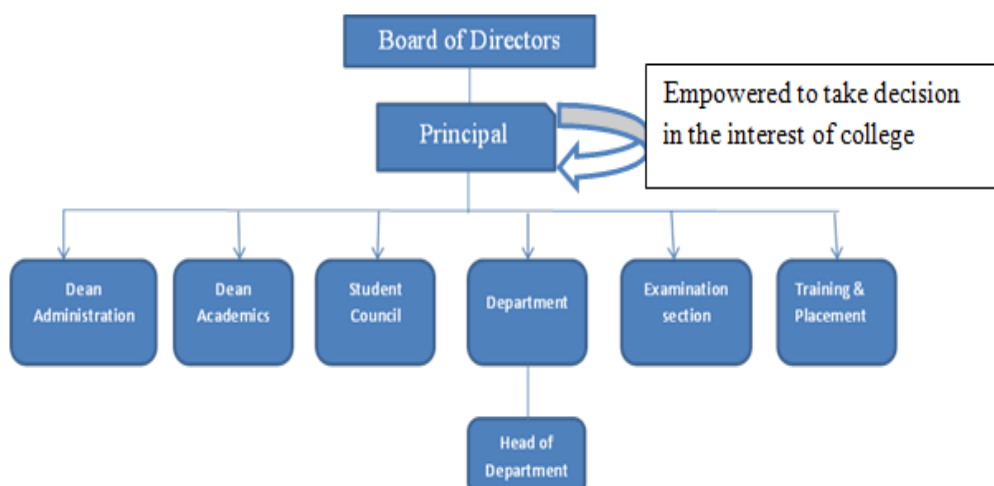
Fig. 6.8 Decentralization at Institute level

- **Departmental Level:**
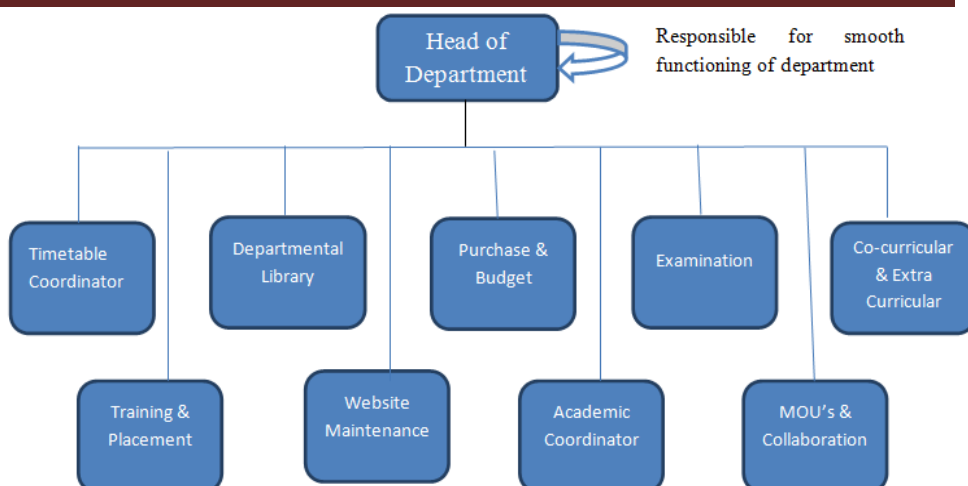
Fig. 6.9 Decentralization at Department level

o Preparation of academic calendar based on time frame set by the University for planning and organizing of activities is done by Time Table Coordinator.

o Departmental Library is useful for all the students and staff which consist of number of books on various topics.

o Purchase and Budget maintains dead stock, indent budget/new purchases/consumables.

o Website Maintenance involves managing departmental section in college website.

6.1.8 Does the college promote a culture of participative management? If 'yes', indicate the levels of participative management.

Yes, the Institute promotes a culture of participative management. Leadership in the Institute always recognizes the significance of the views of all the employees and hence practices this culture meticulously. The different levels of participative management are:
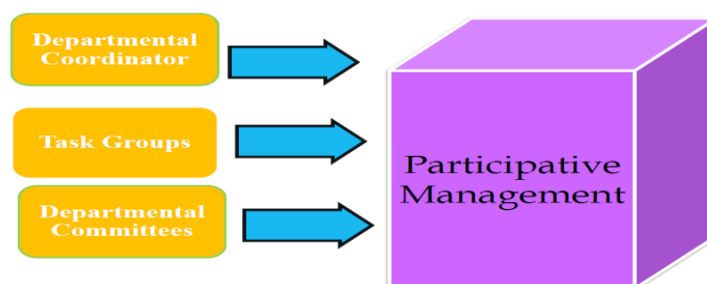
Fig. 6.11 Participative Management strategy (PMS)

- **Strategic Level:**
  o Staff members provide inputs in framing the policies, procedures, guidelines, rules and regulations and effectively implementing the same to ensure smooth and systematic functioning of the Institute.
  o For the various events, to be conducted by the Institute, all the staff members meet, discuss, share their opinion and plan for the event and later various committees are formed to conduct the event smoothly.

o Staff members are also involved in providing inputs in framing the course and examinations (internal and University) to be conducted by the Institute.
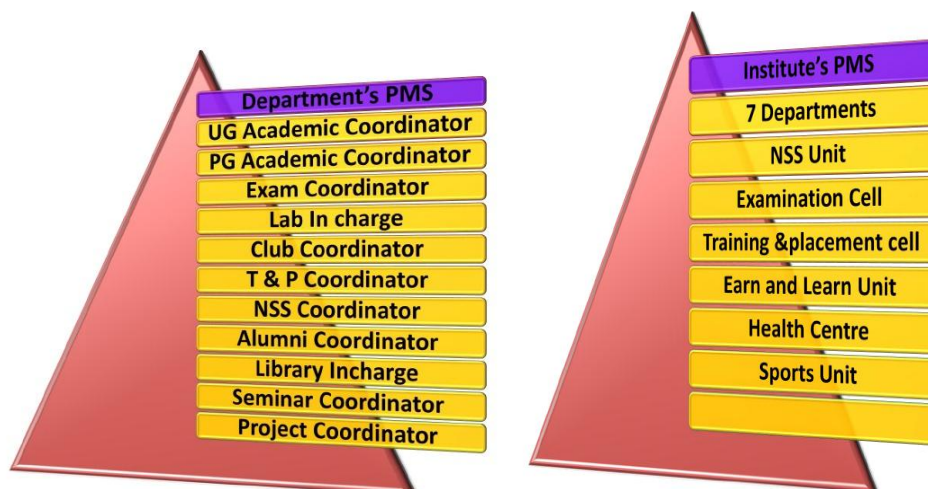
Fig. 6.11 Participative Management strategy (PMS)

- **Functional Level:**
  - o The faculty members participate in sharing the knowledge by discussing on the latest trends in technology during faculty meeting.
  - o Faculty members also write joint research papers and share their knowledge.
  - o Staff members are involved in preparation of annual budget of the department. They also correspond with the University and AICTE regional office to fulfill their requirements for the smooth functioning of the Institute's activities.

- **Operational Level:**
  - o All the staff members actively participate in implementing the policies, procedures, and framework designed by the management in order to maintain and achieve the quality standards.
  - o Students participate in the various programmes organized by the Institute and other Institutions. They also participate in organizing various events at the University level.

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?

Yes. Our Quality policy states, 'Let us work "STILL BETTER" for Excellence'. Our Institution is devoted in broadcasting quality education and training in the field of Engineering and technology.The Quality policy is developed by the management committee & governing body in consultation with the stakeholders like Alumni, Parents and Students to empower the academic activities and assure the requirements of students, parents and society.

The Institution is committed to impart quality education to the students enabling them to develop their good attitude and professional competency in the market.

The quality policy is driven & deployed by

- o Providing excellent infrastructure facilities, well equipped laboratories, library, computer & internet facilities.
- o Encouraging faculty members & students with MoUs, expert lecture, Industry visit, workshop, internship through Institute – Industry Interaction
- o Facilitating for creating employability skill for all students through value added courses, Soft skill training & EDC.
- o Appointing highly qualified and experienced faculty members & adjunct faculty.
- o Grooming students technically, mentally and physically through curricular & extracurricular activities for any kind of work which is beneficial for society.

The Director, Principal and HoD continuously review the teaching & learning process for driving the quality policy effectively & successfully. This review includes:

- o Academic Monitoring committee which continuously monitor actual classroom teaching, lab practices, students strengths etc. & feedback system lend a hand to this monitoring.
- o Verification of Course file, personal file, academic file, sample journal, lab manual, progressive assessment sheet etc. & performance appraisal system assist in assessment process.
- o Departmental activity such as workshop, seminars, expert lecture, industrial visit, MoU, training & placement etc.

6.2.2 Does the Institute have a perspective plan for development? If so, give the aspects considered for inclusion in the plan.

Yes. The Institute has a perspective plan for academic & administrative development. This plan is designed & developed by considering different aspects of stakeholders like parents, alumni, industry experts, and students through Parent –Teacher meeting, alumni interaction Training & placement cell, Teacher-Guardian scheme. Some of the committees responsible for covering optimum aspects of the plan are Entrepreneurship Development Cell, Research and Development Centre, Training and Placement, Local Management Committee, NSS, NCC, Rotaract club, IQAC and many more. Above stated objectives are achieved by this plan

This plan is designed & developed by considering different aspects of stakeholders like parents, alumni, industry experts, and students through following ways:

- Parents –Teacher meeting conducted by every department twice a year where parents check the current status, discuss about students growth & the points can be included.
- Every department has strong Alumni interaction with the faculty & alumni meeting are conducted at departmental level as well as college level every year. Distinguish alumni help the Institute in term of Expert lecture, career development, recruitment etc.

- Training & placement cell is having strong bonding with different HR of the industry through HR meets in which they give suggestion about inclusion of some courses or part of syllabus in present course.

6.2.3 Describe the internal organizational structure and decision making processes.
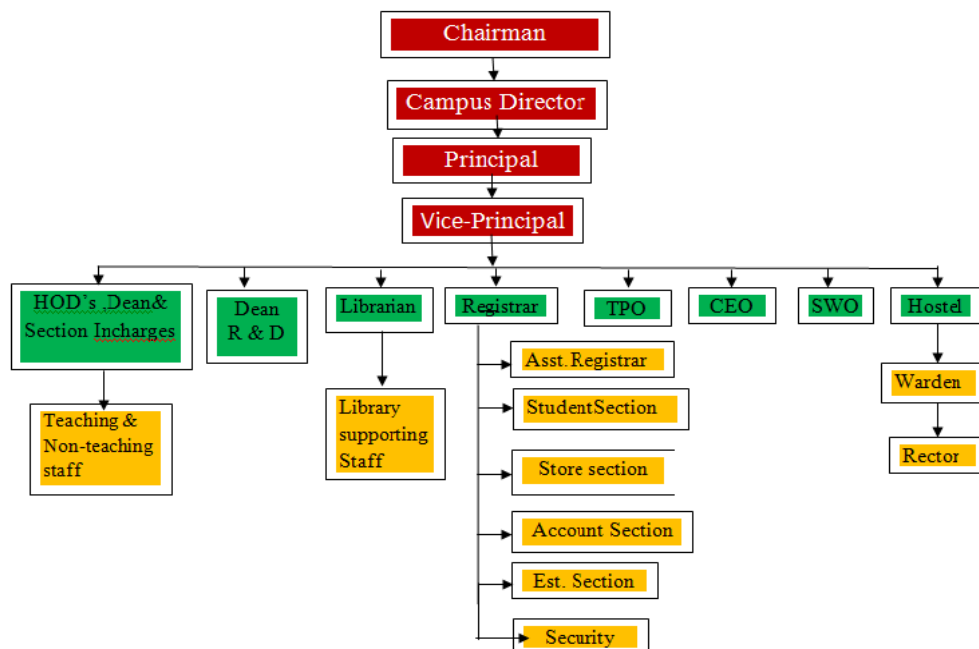
Fig. 6.12 Internal organization of the Institute

6.2.4 Give a broad description of the quality improvement strategies of the Institution for each of the following

The quality improvement strategies of the Institution are:

1. Teaching and learning

All class rooms are well equipped with boards, overhead projectors & PA systems. Facility of online teaching and evaluation includes virtual labs, moodles, digital library, NPTEL videos etc.

Entire college is connected by LAN with 48 Mbps and Wi-Fi with 5 Mbps speed. So all the members can access the online information easily & use it whenever required. So online mock test, e-assignments, sharing e-data in form of eBooks, PPT is possible. Institute has its own ERP system for ease of online attendance, defaulter list generation, and bulk sms.The continuous evaluation is done by different level supervising, monitoring report, Syllabus coverage, Peer Review, Feedback analysis, APS report and result analysis with respect to faculties and assignments, unit test, preliminary examination, mock viva, remedial lectures, extra lecture, Teacher-Guardian scheme with respect to students.

2. Research & Developement

The Institute has one research centre in E&TC & Civil Engineering department. Faculties of the Institute attend FDP's, Seminars, Conferences, STTP's and Workshops organized by various Institutes and industries. Faculties are also encouraged to get research grants,

sponsored projects from industries and also to publish journals, magazine, book etc.

3. Community Engagement

The Institute has adopted one child from Nachiket Balagram orphanage. Seminars on women empowerment, sexual harassment etc. has also been organized to create awareness amongst students. Many activities like blood donation camps, donation of books and clothes, Swatch Bharat "Plastic Removal" camp, traffic rule awareness etc have also been conducted by various departments of the Institute. Institute also has various working bodies like NSS, NCC, ROTARACT club etc which organizes tree plantation, Youth Parliament, entrepreneur training, helmet rally etc. The Institute also received E-waste management- Certificate from Pollution Control Board, Govt. of India.

4. Human Resource Management

Management of human resources is handled by administrative section in our Institute to maximize employee performance in service within Institute. The responsibilities fall into three major areas: staffing, employee compensation and benefits, and defining/designing work. Essentially, the purpose is to maximize the productivity of an Institute by optimizing the effectiveness of its employees. Administrative section handles following responsibilities:

- o Recruitment Policy: Candidates with throughout 1st class every year.
- o Timely payment, Timely DA release & increments on time.
- o All eligible faculty members can avail CL, ML, EL and Vacations.
- o College provides special leave for birthday/anniversary.
- o College provides Diwali holidays of 8 days.
- o 50% fee concession for son / daughter of staff in any college of campus.
- o Retention policy of faculties is based on performance appraisal and student feedback.
- o Maternity leaves are provided

5. Industry Interaction

Industry visits, internships etc are opportunities given by the Institute which provides exposure and hands on experience to the students and faculties. Encouragement for guest lectures, workshops, seminars that enhance the knowledge and skills of students and faculties. Institute has signed many MoU with industries and invites various companies for campus recruitment of our students. Adjunct faculties are being appointed in all departments so as to reduce industry academia gap. H.R. meet is also organized by T&P cell of the college. EDC cell is present so that students can develop entrepreneur skills.

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?**

To review and analyze its performance and capabilities a systematic approach is used. The management, senior leaders and committees use a wide array of data, information and reports to review organizational performance on a regular basis. The process is designed to monitor and improve performance at all levels. This is mentioned below:

- o The student feedback on course, Institutional performance is analyzed and communicated to the top management every quarter and every month to the top management of the Institution during meetings.
- o The student feedback is analysed and result analysis are communicated to the faculty concerned for taking suitable measures.
- o Adequate information is also made available to the stakeholders through college prospectus, College magazine, newsletter, e-bulletin etc. In addition PTA meets, Alumni meets, HR meets and induction programmes become venues for communication of various activities in the Institution.

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 Campus Director and Principal involves the faculty members, staff members & students in various activities related to personal & professional grooming for the development of the college. Few activities are:

- o A Performance appraisal system in accordance with the objectives ensures that every individual employee makes constructive contribution in particular course.
- o Faculty members & students are encouraged by sanctioning sufficient funds to organize different program like International/National conference, Seminars/Workshops, Expert Lecture, industrial visit, training, value added courses, exhibitions etc.
- o Faculty members & students are motivated to participate in International/National conference, Seminars/Workshops, FDP, training by providing registration fees, travelling allowance, on duty leaves
- o The interest of faculty & staff members are also considered by arranging different personal & personality grooming sessions, sessions of financial experts, trips/picnic to different places.

These activities help academic and administrative staff to get involved & stay motivated, energetic throughout the day which indirectly improves the effectiveness and efficiency of the Institutional processes.

6.2.7 **Enumerate the resolutions made by the Management Council in the last year and the status of implementation of such resolutions.**

The resolutions passed in the Governing Body meeting:

Following points were discussed in Governing Body meeting held on 31st March 2012:

- o Approval for new programs like ME (E&TC), ME (Mechanical Heat & Power), two second shifts (Computer & Civil) with intake of 60 were discussed.
- o Enhancement in existing infrastructure in the form of up-gradation of bandwidth of Internet, to create a garden type of sit outs for students etc. were discussed.
- o Review has been taken for placements, examination results, utilization of budget, and performance appraisal of faculty.

Following points were discussed in Governing Body meeting held on 5th Oct 2012:

- o Infrastructure renovation & up-gradation of Library, board room & Admin office was discussed.
- o The proposals to carry out various staff-welfare activities for the forthcoming academic year were approved.
- o Preparation of NBA of 3 UG programs and 3 PG programs were reviewed.

Following points were discussed in Governing Body meeting held on 20th Jan 2014:

- o Internet & networking issue was discussed and is decided to get the entire network restructured.
- o The proposal was made to write-off the obsolete computers.
- o Review has been taken for placements, examination results of May 2013, utilization of budget and performance appraisal of faculty.

Following points were discussed in Governing Body meeting held on 22th Jan 2015:

- o Review has been taken for placements, examination results of May 2014, utilization of budget and performance appraisal of faculty.
- o The governed body was briefed about various activities conducted in academic year 2014-15.

Following points were discussed in Governing Body meeting held on 16thDec 2015:

- o It was noted to all the members that college is submitting NIRF data as per the direction of AICTE & MHRD.
- o Governing Body proposed the requirement of Add-on courses & Academics excellence for enhancing employability of the students to improve the placements.

Following points were discussed in Governing Body meeting held on 6thJun 2016:

- o Vision, mission, PEOs & PSOs of all the departments were discussed and approved.
- o Discussion was held for the Academic Quality improvements.
- o DTE admission process for the academic year 2016-17 was discussed.
- o Review has been taken for placement activities.

Outcomes of above Governing Body meetings:

- o New programs ME (E&TC) VLSI & Embedded systems started in 2012-13, ME(Mechanical Heat & Power) in 2013, second shift of Civil with intake of 60 started in 2013, second shift of Mechanical Engineering with intake of 60 started in 2012.
- o Create a garden type of sit outs for students.
- o Infrastructure renovation & up-gradation of Library is done
- o 3 UG programs: Information Technology, Instrumentation and Control and Production Engineering got NBA accreditation for 2 years in 2012.
- o The entire network of college got restructured in 2014.
- o The Institution has submitted NIRF data in Dec 2015 & Dec 2016.

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 Institution is presently affiliated to Savitribai Phule Pune University. In future, Institute may submit proposal for autonomy to University Grant Comission (UGC).

6.2.9 How does the Institution ensure that grievances / complaints are promptly attended to and resolved effectively? Is there a mechanism to analyze the nature of grievances for promoting better stake holder relationship?

Yes; the Institute has a Grievances Redressal Cell to resolve the grievances of student, faculty and staff.

- Grievances redressal committee has displayed the board with the name of members & their mobile numbers to the prominent places in the Institute.
- The workflow of the Grievances redressal committee is as follows:
  - o The student, faculty and staff submit the written complaint to the chairperson of the grievances redressal committee.
  - o The chairperson of the grievances redressal committee conducts meeting with all the members of the committee.
  - o Third party checking will be done for the genuineness of the complaint.
  - o A person who made a complaint (complainant) has been called in front of all the members of the committee to listen his complaint in detail. Voice recording of this investigation has

been done in closed room. Handwritten evidence of this issue is prepared by the complainant after the meeting.

- o Then a person who is being complained about, also has been called in front of all the members of the committee to listen his justification related to the complaint in detail. Voice recording of this investigation has been done in closed room along with his handwritten justification.
- o After this, the discussion will be held among the grievances redressal committee members to find the solution.
- o The solution is then conveyed to the concerned complainant and the complaint is resolved.

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?

      No

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 Institution has a mechanism for analyzing the student feedback on Institutional performances.

- Feedback form is designed which includes questionnaire on different parameters decided by committee.
- Both in even and odd semesters feedback from students is taken by internal and external authorities decided by the management.
- Peer review of these feedbacks is done by these committees and report is submitted to the management.
- This year i.e. 2016-17, online feedback system is developed internally and feedback has been taken.
- Feedback is also provided to the faculties to make improvement in their performance.
- At the time of Alumni meet, feedback form is filled by each alumni on various parameters.

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?

- Institute fosters the faculty members to publish paper and carry out research work in their field of interest.
- Institute supports in form of funds to carry out research work.
- On duty leaves are provided to the faculty members for attending as well as participating conferences and seminars.
- Funds are provided to the departments to arrange guest lecture, seminar, workshops and conferences.
- Special leaves are provided to faculties on their birthdays (for unmarried) and marriage anniversary (for married).

- Providing duty leaves to faculty and staff for attending workshops, seminars and national and international conferences.
- Different online courses and e journals are provided to all the faculties through library access.
- Providing NPTEL video lectures.
- Faculties are encouraged for higher studies by adjusting their duties.
- Institute provides financial backing for higher education.

Non Teaching

- Computer literacy is provided to non teaching staff.
- Senior Faculty Members guide the non teaching staff for proper execution of examination work.

6.3.2 What are the strategies adopted by Institution for faculty Empowerment through training, retraining and motivating the employees for the roles and responsibility they perform?

- Special recruitment panel is allotted in the college for recruitment of new faculty.
- Induction program are arranged for newly joined faculties where they interact with HOD, Principal and other faculties of the department.
- During this induction program these faculties are guided with the terms and policies along with the history of the Institute.
- Senior faculties share their experience and guide them regarding class room teaching and management.
- Deserving faculties are promoted.
- Different social, economical and industrial speaker persons are welcomed by the Institute in the college to interact with the faculty members to encourage and motivate them for their professional growth.

6.3.3 Provide details of 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 form is designed which has three sections as below:

Academic Engagement and Performance: This section includes syllabus completion, attendance of students, exam result of subjects, feedback from students, and teaching and learning parameters.

Research and Academic Contributions: This section includes continuous improvement of faculty, FDP's/workshops arranged by faculty, grants received, sponsorship projects, participation in university exam related duties, etc.

Self-Development: This section includes books, research papers published by faculties, FDP's, value added courses attended, projects guided, etc.

Performance appraisal forms are submitted by each faculty after every academic year to see their improvement and progress in academic and administrative work.

6.3.4 What is 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?

- Self appraisal report of individual faculties is duly checked by HOD, Principal, Management and depending upon that the Best Teacher award is given. Performance incentives are given to the faculty members having consistent "Very Good" or "Excellent" feedback.
- For lower performing faculties counseling is given by HoD and Principal. Suggestions are given to overcome the shortcomings and chances are given for improvement.

6.3.5 What are the welfare schemes available for teaching and nonteaching staff? What Percentage of staff has avail benefit of such scheme in the last four years?

- 6th pay implementation for eligible staff members.
- Provident Fund Scheme is applicable for all the regular employees
- Fee concession for the children of the employee
- Gratuity is paid as per the act
- Paid maternity leave provided to staff
- A paid leave for three months period is given to the faculty members pursuing PhD/Post Doctoral research
- Pradhan Mantri Jan Dhan Yojana started in salary account bank and enjoyed by all the employees of the Institute
- 100% eligible staff members are enjoying above benefits.

Table 6.1 Statistical data for different schemes

Name of the Scheme	2012-13	2013-14	2014-15	2015-16
Provident Fund	124	123	121	120
Fee Concession	1	5	3	1
Gratuity Paid	1	0	4	4

6.3.6 What are the measures taken by the Institution for attracting and retaining eminent faculty?

- Internal Grievance Committee/ Internal Complaint Committee are formed regarding any issues for all the employees on Institute level.
- Institute gives equal opportunity to each and every employees for their better enhancement of their professional as well as personal development
- Motivational lecture by management is always held for good teaching environment for teaching staff.
- Faculties are motivated by the management to register to PhD course and they are provided on duty leaves and other facilities to pursue their research.

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?

- Yearly planning of budget under different budget heads at Institution has well defined mechanism to monitor effective and efficient use of available resources.
- Details of proposed expenses are collected from respective departments at the beginning of the semester in the prescribed format as per the circular issued by the Principal.
- Budget for the departments is prepared by concerned HODs, in consultation with the departmental laboratory in-charge and other faculty.
- Then it is sent to the Principal. The departmental budgets are discussed by the Principal at HOD's meeting and then sent to Chief Finance Officer and to the Campus Director for final approval. Comparison of cost and the quality of the product takes place by collecting quotations from more than two different vendors in front of Purchase committee members at Institute level. After comparison vender is finalized for purchase of items based on lower cost, service guarantee and before placing the order opinion is taken from lab In-charge / HoD, then purchase order for that vender will be released
- While preparing the Institutional budget a provision is made for salaries and allowances (changes as per Govt.GR time to time) and for administrative and maintenance expenses such as internet, electricity, water, telephone, postage etc.

6.4.2 What are the Institutional mechanisms for internal and external audit? When was the last audit done and what are the major audit objections? Provide the details on compliance.

Mechanisms:-

External Audit

D Y Patil college of Engineering appointed internal and external auditors. Last audit was carried out on 07th Jan 2017. No major audit objections were found in the audit.

Internal Audit

Internal audit is carried out Yearly. No major irregularities were found in the audit.

Table 6.2: Internal audit

Year of Internal Audit	Date of audit
2012-13	07-04-13 to 14-04-13
2013-14	05-04-13 to 10-04-13
2014-15	09-04-13 to 15-04-13
2015-16	06-04-13 to 12-04-13

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 Institutions, if any.

D Y Patil College of Engineering is self-financed Institute. Student tuition fees and development fee is the major source of income. The Institute has not come across insufficient funds if, in any case, there is shortfall of funds, Dr. D.Y. Patil Pratishtan will fund the Institution. The audited income and expenditure statement of previous four years is as follows

Table 6.3 : Audited income and expenditure

Details of Income and Expenditure (Rs in Laks)				
Particular	**2012-13**	**2013-14**	**2014-15**	**2015-16**
Income	2151.53	2671.99	3215.87	36,93,21637/-
Expenditure	2167.012	2339.7	2823.4	29,85,73370/-

6.4.4 Give details on the efforts made by the Institution in securing additional funding and the utilization of the same (if any).
- Grants from university for seminars and workshops
- Research grant from Board of College and University Development
- The utilization of the funds for various activities is as under

Table 6.4: BCUD SPPU Research Project Completed

SN	Name of Faculty	Dept	Grant Sanction (Rs)	Grant Utilized (Rs)	Percentage Utilization (%)
1.	Dr. Mrs P Malathi & Manisha Rajput	ENTC	2,00,000	1,8,233	91.61
2.	Padma M lohia	ENTC	1,55,000	1,36,909	88.32
3.	Priya Arokia	ENTC	2,20,000	1,98,186	90.21
4.	Trupti R wagh	ENTC	2,20,000	1,98,466	90.08
5.	V S Vibute	Instru & Control	1,40,000	1,15,100	82.21
6.	P T Nitnaware	Mech	1,70,000	1,20,520	70.89
7.	S S Sarnobat & N K Kamble	Prod	1,40,000	1,37,689	98.34
8.	V A Kulkarni	Prod	1,60,000	1,59,733	99.83
Total			**14,05,000/-**	**12,49,826/-**	**88.95**

Table 6.5: BCUD SPPU Ongoing Research Project

Sr No	Name of Faculty	Dept	Year	Grant Sanction(Rs)
1.	N V Mane	Instru & Control	2014-16	1,20,000/-
2.	K D Bamane	IT	2014-16	80,000/-
3.	M A Potey	IT	2015-17	42,000/-
4.	Rahul Pawar	Comp	2016-18	1,00,000/-
			Total	3,42,000/-

Table 6.6: SPPU FUNDING FOR SEMINAR , WORKSHOP AND CONFERENCE

SN	Year	Name of faculty	Funding Agency	Funding Received	Title
1	2016-17	Dhanashree A. Phalke & S. M. Panse	Board of Student Welfare, SavitribaiPhule Pune University	10,000/- (Sanctioned, yet to receive)	One day workshop on "Personality Development"
2.	2016-17	Nilam S. Patil & Suvarna Kadam	Board of Student Welfare, SavitribaiPhule Pune University	24,000/- (Sanctioned, yet to receive)	Three days workshop on "Laptop Repairing"
3	2016-17	Arati Gaikwad & Snehal Sarangi	Board of Student Welfare, SavitribaiPhule Pune University	20,000/-	Three days Mobile Repairing Workshop
4	2016-17	Arati Gaikwad & K. D. Bamane	Board of Student Welfare, SavitribaiPhule Pune University	10,000/-	Application Development Workshop
	Total (2016-17)			**64,000/-**	
5	2015-16	M. A. Potey	BCUD	1,12,654/	Two days National Conference on Frontiers in Computing (NCFC-2016)
6	2015-16	Kishori Pawar & S.M. Panse	Board of Student Welfare, SavitribaiPhule Pune University	15,000/-	Two daysWorkshop on "CCTV Camera Repairing Workshop"
7	2015-16	V S Vibhute	BCUD	60,000/-	State level seminar on Embeded Systems and Robotics
	Total (2015-16)			**1,87,654/-**	
7	2014-15	S. C. Shinde & P. S. khude	Board of Student Welfare, SavitribaiPhule Pune University	18,000/-	Three days workshop on "Laptop Repairing Technology"

8	2014-15	R. Y. Pawar & A. D. Patil	Board of Student Welfare, SavitribaiPhule Pune University	18,000/-	Three days workshop on "Mobile Repairing"
9	2014-15	Arati Gaikwad & Suman Kumari	Board of Student Welfare, SavitribaiPhule Pune University	24,000/-	Three days Laptop Repairing Workshop
Total (2014-15)				**60,000/-**	
10	2013-14	Pallavi Khude & S.M.Panse	Board of Student Welfare, SavitribaiPhule Pune University	18,000/-	Three days workshop on "Laptop Repairing"
11	2013-14	Shwetali Erandole & S.M. Panse	Board of Student Welfare, SavitribaiPhule Pune University	18,000/-	Three days workshop on "Computer Hardware Training"
Total (2013-14)				**36,000/-**	

6.5 Internal Quality Assurance System

6.5.1 Internal Quality Assurance Cell (IQAC)

a. Has the Institution established an Internal Quality Assurance Cell (IQAC)? If 'yes', what is the Institutional policy with regard to quality assurance andhow has it contributed in institutionalizing the quality assurance processes?

Yes, IQAC was formed by the Institution.

The Institute is always been trying to achieve the academic excellence good performance by motivating and supporting the faculty and students for research work.

Following are the policies driven by IQAC:

- Ensuring timely, efficient and progressive performance of academic, administrative and financial tasks;
- The relevance and quality of academic and research programmes;
- Equitable access to and affordability of academic programmes for various sections of society;
- Optimization and integration of modern methods of teaching and learning;
- The credibility of evaluation procedures;
- Ensuring the adequacy, maintenance and proper allocation of support structure and services;
- Sharing of research findings and networking with other Institutions in India and abroad.
  IQAC used to discuss following points in meeting
- Seminars/conferences/workshop organization at the Institute

- Important decisions regarding to the research activities, various facilities required in campus, FDPs.
- Feedback from stakeholders to improve quality in education.

b. How many decisions of the IQAC have been approved by the management / authorities for implementation and how many of them were actually implemented?

Management mostly approves the decision of IQAC with few changes. Here are some important decisions of previous years

- Collaborations with various industries/organizations (Tata Consultancy Services, Infosys Technologies, Capgemini, Zensar Technologies, COEP)
- Use of advanced tools in teaching learning process
- Organization of seminars/conferences/workshop/FDPs

c. Does the IQAC have external members on its committee? If so, mention any significant contribution made by them.

Yes, academics, industry and alumni are the external members in IQAC. Useful contributions are made by them-

- Motivate faculty to attend FDP/STTPs/ Workshops/Seminars
- Inputs for advanced and innovative teaching methods

IQAC Cell formation
1. Member From Management:- Col S.K.Joshi
2. Chairperson: Head of the Institution: Dr. Balapgoal B.S
3. Director of the IQAC:- Dr. Mrs. P . Malathi
4. Advisory Board members of the College
5. Administrative officers
    a. Academics and monitoring:- Dr. Babar S.K.
    b. Research and Development:- Dr. Mrs. Alka Kote
    c. Stakeholders Participations:- Dr. D. R. Panchagade
    d. Policy formation and Report Preparation:-Dr.Mrs.Neeta Deshpande
    e. Examination Systems Coordination:- Prof. V. S.Vibhute
    f. EST Coordination:-Prof D. A. Bhagwat
    g. HOD's of each Department
    h. Two nominees from local society, Students and Alumni
    i. One/two nominees from Employers, industry.

d. How do students and alumni contribute to the effective functioning of the IQAC?

The students and alumni contribution for proper functioning of IQAC is as follows-

- Student feedback is collected from students and also alumni feedback is collected during alumni meet.

Feedback from Stakeholders

1. • Students Feedback
2. • Parents Feedback(Surveys)
3. • Industry Experts Feedback(Survey)
4. • Alumni Feedback (Survey)
5. • Faculty Feedback(Survey)
6. • Employers Feedback
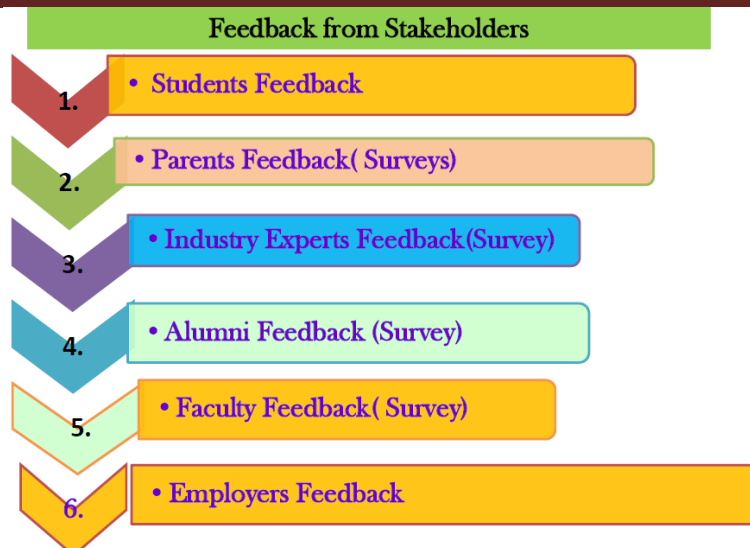
Fig. 6.17 Feedback from Stakeholders

- In addition to this, suggestion boxes are available to take students suggestions.
- These suggestions and feedback plays important role for proper functioning of IQAC.

e. How does the IQAC communicate and engage staff from different constituents of the Institution?

Communication flowchart of IQAC in the Institution is depicted in figure below

1. Planning and Policy formation

Stakeholders Survey
•Industry Experts
•Parents
•Students
•Alumni

2. Execution

Quality Sustenance.

3. Monitoring

Students Feedback

4. Reviews

CR Reports(Faculty Feedbacks)

Appriasal

Quality Enhancement
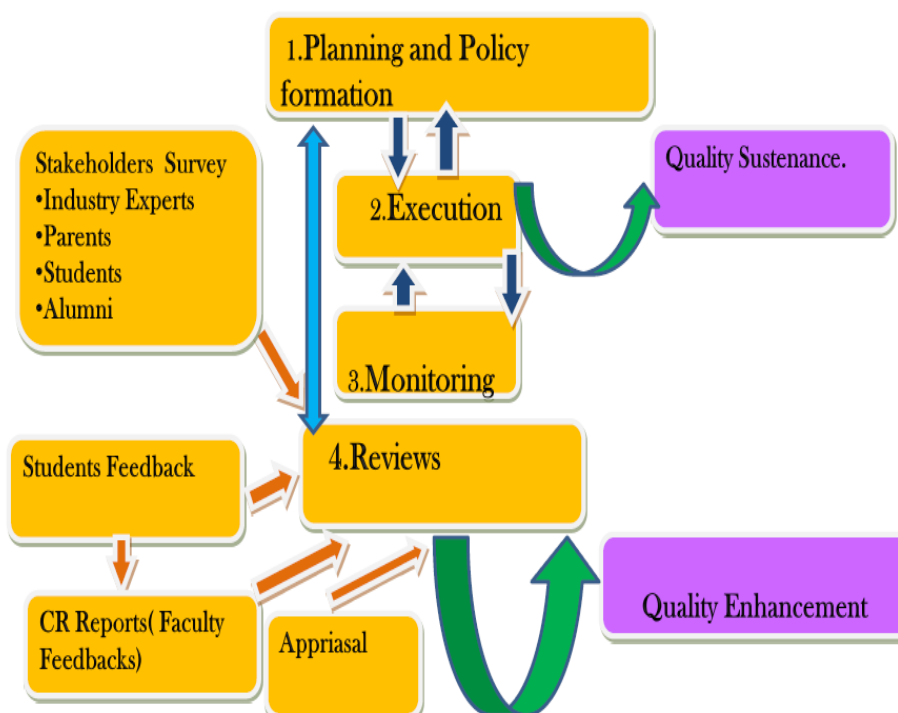
Fig. 6.20 DYPCOE's Internal Quality Assurance cell (IQAC):- Functioning

- Parent teacher meet are conducted and parent's feedback are also collected to improve the academic and overall performance of Institute.
- So to improve performance everyone's opinion is important because of that, feedbacks are collected from students, parents, alumni, faculty, employers etc.
- For continuous improvement in teaching, student's feedback is collected and also there is appraisal system to evaluate faculty performance.

6.5.2 Does the Institution have an integrated framework for Quality assurance of the academic and administrative activities? If 'yes', give details on its operationalization.

Yes. The integrated framework for quality assurance of academic and administrative activities is displayed in the following figure
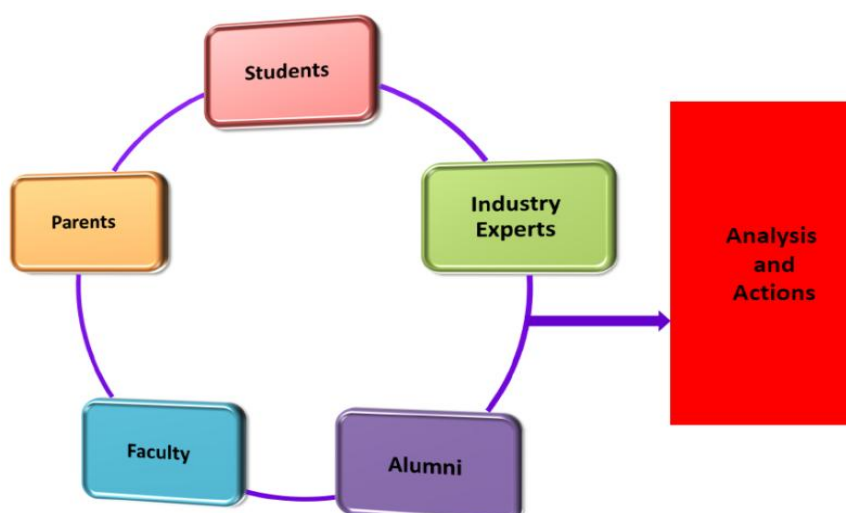
Fig. 6.22 Reviews: (Stakeholders) Quality Enhancement

6.5.3 Does the Institution provide training to its staff for effective implementation of the Quality assurance procedures? If 'yes', give details enumerating its impact.

Yes,
- FDPs, guest lectures, workshop improves teaching learning process and knowledge of faculty.
- Instructions and guidelines are given by Academic coordinator and HOD in departmental meeting helps to enhance staff performance.
- Due to faculty development and improved teaching learning process, students results get improved.

6.5.4 Does the Institution undertake Academic Audit or other external review of the academic provisions? If 'yes', how are the outcomes used to improve the Institutional activities?

Yes,

- The Institute takes internal and external academic audit.
- Institute takes internal audit of course file due to that every faculty keeps their course file updated.
- Academic progress report ensures on time completion of syllabus.
- Self-appraisal scheme motivates faculty for continuous improvement.

6.5.5 How are the internal quality assurance mechanisms aligned with the requirements of the relevant external quality assurance agencies/regulatory authorities?

- Academic curriculum and all relevant activities are done as per the rules and regulations laid by the university
- All kinds of facilities and staff recruitment is as per norms of All India Council for Technical Education and SPPU.
- The admission to the respective streams are done as per the regulations and directives provided by Directorate of Technical Education, Maharashtra state.
- The Institute performance is analyzed by Savithribai Phule Pune University & All India Council for Technical Education committees.

6.5.6 What Institutional mechanisms are in place to continuously review the teaching learning process? Give details of its structure, methodologies of operations and outcome?
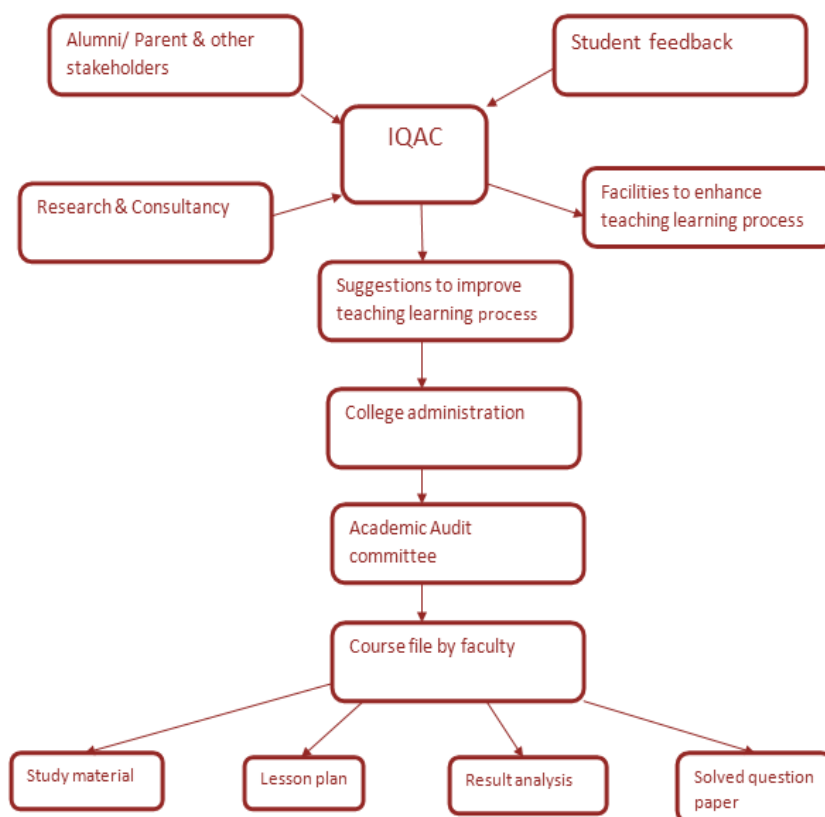
Fig. 6.23 Institutional mechanism to review the teaching learning process

Methodology

Different methodology are used to review the teaching learning process are as follows.

- Academic calendar: helps to plan and execute academic activities throughout the semester.
- Lesson Plan and Lesson Schedule: Helps to complete course content on time.
- ERP (Enterprise Resource Planning): Keeps record of attendance, lesson plan, student information, faculty data etc.
- Progressive assessment record: To keep and evaluate student continuous performance in practicals.
- Make up classes: To take repeat theory class for students who got late admission due to counseling round and vacant seats.
- Remedial Theory and Practical class: To take repeat theory class for weak and very weak students identified through internal examination performance.
- Bulk SMS are sent daily to the parents of students who remain absent for any lecture. Due to which attendance of the student is increasing and learning process is taking place uniformly.
- Teacher Guardian scheme: To improve relation and understanding between teachers, students and their parents. Faculty has to focus on only limited students. Thus academic improvement is observed.
- Unit Tests: Unit Test is conducted to analyze student performance. Unit Tests marks also communicated to the all parents through bulk SMS.
- Preliminary Examination: Preliminary examination is conducted at the end of semester as a rehearsal of University final examination. Students get the knowledge of shortfall in the examination.

Outcome

- Above methods helps to complete syllabus and all other activities on time as per scheduled before the commencement of semester.
- Continues assessment technique helps student to evaluate themselves and also faculty can take remedial actions whenever necessary.
- Teacher Guardian scheme helps to improve relation and understanding between teachers, students and their parents.

6.5.7 How does the Institution communicate its quality assurance policies, mechanisms and outcomes to the various internal and external stakeholders?

Following are the ways to communicate with internal and external stakeholders:

- Through Institute information brochure
- Through Institute website
- Parent teacher meet
- Alumni meet
- Principal, Vice principal, HOD meet with students

- Principal talk at conference, seminar, workshop with stakeholders.
  Any other relevant information regarding Governance, Leadership and Management which the college would like to include.
- Dr. Mrs. P Malathi, Vice Principal and Mrs. Usha Jadhav, Assistant Professor E& TC department received Skyfi recognition of leadership award in January 2017.
- D Y Patil College of Engineering received the award for Sustainable Industry Institute Partnership for the year 2016-17 at New Delhi.
- DYPCOE, Akurdi is recognized as a training provider of telecom sector skill council.

7.1 Environment Consciousness

7.1.1 Does the Institute conduct a Green Audit of its campus and facilities?

Yes, green audit of the college is done annually. Plants and trees like Coconut, Drumstick, Vilayti Chinch, Gooseberzy, Azedrecta, Sissav, Accahifa, Cassia, Karanj keeps environment fresh in the college. Solar Water Heating system, Rainwater Harvesting system, waste water management system helps in keeping college environment friendly.

7.1.2 What are the initiatives taken by the college to make the campus eco-friendly?

Initiatives taken by college to make campus eco-friendly are,
- Energy conservation
- Use of renewable energy
- Water harvesting
- Efforts for Carbon neutrality
- Plantation
- Hazardous waste management
- e-Waste management

Energy conservation:

Energy conservation is the need of the hour as the Energy Footprint and not the level of consumption of energy decides the development standards of any entity or campus nowadays. Figure 7.1 shows the various techniques adapted by college for energy conservation. All the college buildings have energy efficient designs. These buildings are designed in a way so as to make maximum use of natural light for day time illumination. Most of the spaces are very well ventilated and hardly requires any assisted ventilation systems. This lowers the requirement of electricity for lighting and ventilation equipments. Green patches are kept adjacent to the buildings with trees planted which keep the surroundings cool and reduces energy consumption for fans and blowers.

Old light fittings in the campus are replaced by new energy efficient LED lights. Twenty six area lights of 200W rating are replaced by 60W LED lights saving about 1600 KWh of electricity yearly. Also 119 Jodhpur lamps with 7W LED are used in the lawns which are energy efficient.

A conservative culture has been developed in the collage over the years to reduce the wastage of energy. Capacitor banks are installed for maintaining power factor close to unity.

Lowering consumption of energy	• Energy efficient design of buildings • Replacement of old light fittings by energy efficient LED lights.
Reducing wastage of energy	• Maintaing power factor close to unity • Judicious use of electrical appliances and equipments. • Regular maintenance and calibration of major equipments.
Use of Renewable Energy	• Use of Solar Water Heating System
Awareness generation	• Expert lecture, Poster Presentation

Fig.7.1 Energy Conservation Techniques adapted by college

This has improved the power utilization immensely resulting in incentive of about 4.2 lacks yearly from the state utility. All the electrical equipments are used judiciously in the campus. Equipments are switched off when not in use. Faculties as well as students are motivated to switch off the lights and fans when not required.

Use of renewable Energy:
Renewable energy is used in the campus as an alternative to the grid power.

Fig.7.2 Solar Water Heater Systems installed on roof of Hostel building

Figure 7.2 shows Solar Water Heater (SWH) systems installed on roof of Hostel building. Solar water heating systems of capacity 15000 Liter per Day (LPD) are installed for heating water at the student's hostel. This approximately saves electricity up to 21600 KWh yearly.

Awareness generation programs are conducted in the campus so as to make people aware of the benefits and advantages of conserving energy. An expert lecture was organized for students and faculties on energy conservation in general and 'Improving Energy Efficiency in Thermal Utilities' in particular.

Dr. Vishal Sardeshpande, from IIT Bombay, who is a certified Energy Auditor from Bureau of Energy Efficiency (BEE), Govt. of India elaborated the importance of energy conservation and explained different energy conserving practices. Students are also offered 'Energy Audit and Management' as optional subjects so as to make them conscious about energy conservation.

Water Harvesting:

In order to utilize rain water efficiently college has constructed a rain water harvesting tank with storage capacity of 2,120 liters.

Fig.7.3 Rainwater Harvesting System

Fig.7.3 shows a rain water harvesting tank of 1.2m height and 6.56m diameter. This collected water is utilized for cleaning purposes.

Carbon Neutrality

Carbon emissions in college are compensated through proper Landscaping and planting trees and shrubs over the entire college campus.

College is located near to the Akurdi railway station and public transport bus stop, so that 80% of the students and faculty members are using public transports rather than using a personal vehicle which reduces carbon emission and thus nets zero carbon foot print is achieved. Figure Fig.7.4 represents factors influencing Carbon Neutrality.

Fig.7.4 Factors influencing Carbon Neutrality

Carpooling is also environment friendly and sustainable way to travel as sharing journeys reduces carbon emissions, traffic congestion on the roads, and the need for parking spaces which is a best practice of the college.

College parking Arrangements have made for parking the vehicles. The dead leaves and the waste papers are not allowed to be put on fire. The leaves are buried in the soil itself and the papers are disposed off. This helps in keeping the campus clean.

Plantation:

In College total 865 plants and trees are planted which includes Coconut, Drum Stic, Vilayti Chinch, Gooseberzy, Tall Shade Tree, Azedrecta, Sissav, Accahifa, Cassia, Karanj trees. Table 7.1 shows plantation details of college.

Table 7.1: Plantation Details

SrN	Name of the tree	Small	Medium	Big	Total
01	Chafa	10	22	20	52
02	Sonchafa	-	17	-	17
03	Pimple	-	02	02	04
04	Vad	02	-	01	03
05	Umbar	01	01	04	06
06	Gulmohar	-	-	34	34
07	Sisum	-	-	05	05
08	Neem	02	03	06	11
09	Bahava	-	-	33	33
10	Karanj	-	-	07	07
11	Suru	05	-	06	11
12	Kanchan	-	-	42	42
13	Bakul	-	01	-	01
14	Coconut	-	-	21	21
15	Ber	-	03	-	03
16	Almond	-	-	04	04
17	Jamun	03	04	-	07
18	Jack Fruit	-	01	01	02
19	Cashewnut	-	01	-	01
20	Custard Apple	02	02	-	04
21	Guava	-	07	-	07
22	Mango	10	06	08	24
23	Pomogranate	01	-	-	01
24	Drumstic	04	06	06	16
25	Travelar Palm	-	01	-	01
26	Foxtail Palm	-	-	20	20
27	Christmas Tree	02	02	14	18
28	Bottle Palm	-	-	66	66
29	Bottle Brush	-	25	-	25
30	Ficus (Black)	-	45	-	45
31	Ficus (Safari)	05	-	-	05
32	Spathodium	-	-	48	48
33	Rubber Tree	-	-	06	06
34	Acacia Sp.	-	-	109	109
35	Saptapani	06	10	30	46

36	Furn Tree	-	-	81	81
37	Tokomo	-	05	-	05
38	Silverok	05	05	18	28
39	Pentack	04	04	04	12
40	Jatropha	02	05	10	17
41	Lemon	-	01	-	01
42	Arecanut	-	-	16	16
Total					**865**

Hazardous waste management

- Waste water management:

College is having 180000 litre capacity of sewage water treatment plant working on the principal of Activated Sludge process of Moving Bed Bio Reactor. The treated water is used for gardening purpose. Fig.7.5 shows Sewage Water Treatment plant at college

Fig.7.5 Sewage water treatment plant at College

This sewage water treatment plant consists of following units:

1. Bar screen
2. Grit chamber
3. Aeration tank
4. Clarifier
5. Sludge drying bed
6. Treated water tank

Table No.7.2 represents unit description of sewage treatment plant.

Table No. 7.2. Description of Units

Sr. No	Units	Capacity in m^3	Size in m
1	Bar screen	2.10	2.5x1.4x0.6
2	Grit chamber	12.60	4.5x2x1.4
3	Aeration tank	154	7x5.5x4
4	Clarifier	38.62	3.6 diameter & 3.5 hight
5	Sludge drying bed	24 sq. meter	4x3
6	Treated water tank	60	6x4x2.5

e-Waste management:

Students from various departments of the College have participated in the e-waste collection drive and collected total 9 Kg e-waste during 14th September to 16th September 2016 as Engineer's Day celebration.

Collected e-waste includes Pen Drive, Mobile chargers, Keyboards, Displays, Hard Drives, Motors, Lamp Assemblies, Speakers, PC Boards, Computer drives and Connectors. It was then deposited to "E-Waste Recyclers India". In this way college had helped in conservation of natural resources and initiated protection drive of surroundings.

7.2 Innovations

7.2.1 Give details of the innovations introduced during the last four years which have created a positive impact on the functioning of the college.

Innovations introduced by the college in last four years are summarized as shown in Fig7.6
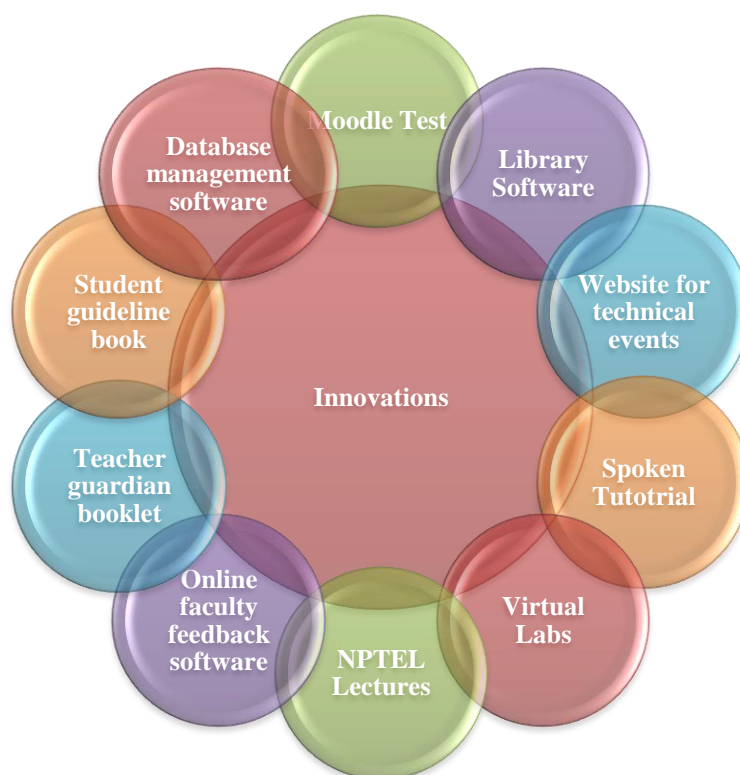
Fig7.6 Innovations in College

Moodle Test (Modular Object-Oriented Dynamic Learning Environment):-

Moodle is a Course Management system (CMS) - a free, Open Source software package designed using sound pedagogical principles, to help educators create effective online or offline learning communities.

Moodle is a user friendly learning tool, where teachers can build online classrooms with digital assignments, readings, documents, quizzes, and discussions. Fig7.7 shows Home Page of Moodle Server of Mechanical Engineering Department.
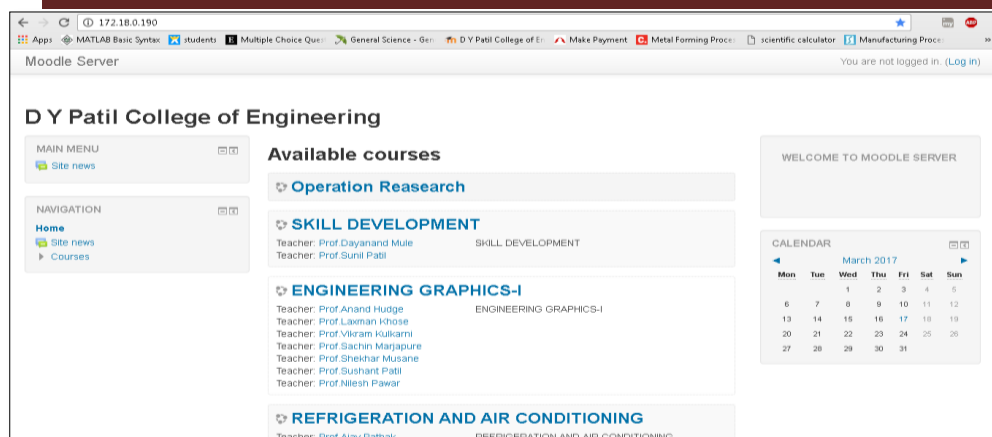
Fig7.7 Home Page of Moodle Server of Mechanical Engineering Department

Moodle can be used on any computer and is completely online, so you can access it from any computer at any time. We have initiated 2 Moodle tests for each subjects based on Savitribai Phule Pune University (SPPU) syllabus. Moodle test is of type Quiz, MCQ's etc. Using this tool we can directly get the analysis of test for students & results are displayed in the graphical formats.

Library Software:

Earlier practice for maintaining the visit record of faculty, sign was taken on paper. At the end of the semester the librarian used to manually count the number of attendance of each faculty which was teadious and time consuming job. To overcome this harden software has been prepared in which whenever a faculty visits the library he/she will use the username and password given to them for the login purpose. Through this software the manual signing removed and the librarian can easily get the count of how many times a faculty is visiting the library.

Website for Technical Event:

A website has been developed for the technical event of our college. Real time data transparency in terms of the entries, every event head can view in the number of entries made in the events. Online registration for the participants with full description of the events is possible. Whenever participant does the registration online a message will be sent to the participant regarding event details and to the event head related to the registration. Report can be obtained easily to view the entries college wise and event wise. Proper security of contact numbers of participants and volunteers was done using cryptography schemes.

Teacher Guardian Booklet:

Teachers as Teacher Guardian works as a mentor, philosopher and guide for a batch of 15 to 20 students. They keep the track of every student's day-to-day activities and records daily attendance, test results, internal assessment, prelim examination results and other related information of students in the specially designed teacher guardian book. Teacher Guardian booklet in our college is designed differently for FE students.

Student Guideline Booklet:

This booklet is designed particularly for students who have taken admission in First Year of Engineering. This booklet consists of all the information

which newly admitted students seek. The information like department details, subjects, syllabus, teachers name and contact details, administration office details, rules and regulation of the college, local train and bus details etc. This booklet fulfills all the needs of students and helps them to settle in new environment.

Virtual Lab:

College has signed the MoU with College of Engineering, Pune (COEP). College of Engineering, Pune has virtual labs which are fully interactive simulations, in which students perform experiments, collect data, and answer questions to assess their understanding. The labs combine animations, illustrations, and videos to convey key information and engage students in the process of science. College Students perform experiments on virtual lab for different subjects.

Final Year Projects:

Students are encouraged to design real time projects. Students perform real time innovative projects to meet requirement of industry.

Spoken tutorials:

The Spoken Tutorial project is the initiative of the "Talk to a Teacher" project of the National Mission on Education through Information and Communication Technology, launched by MHRD, Govt of India and is being developed by IIT Bombay. Some departments are using this software effectively for students.

NPTEL Videos:

National Programme on Technology Enhance Learning (NPTEL) videos are used in the classes to illustrate many topics. NPTEL lectures are available on NPTEL website (nptel.ac.in) which is free and easy to access. Many lectures on different topics are available on it prepared by IIT Professors.

Database Management Software:

This Database Management Software system is designed by a faculty of mechanical dept. Through this, departmental data is stored on a single platform; it gives a clear picture to all the faculties about the duties and responsibilities of every other and the respective data for ready reference. The higher authorities can monitor the various files as compared to tracking a hardbound record. Fig7.8 Screenshot of Database Management Software of mechanical department.
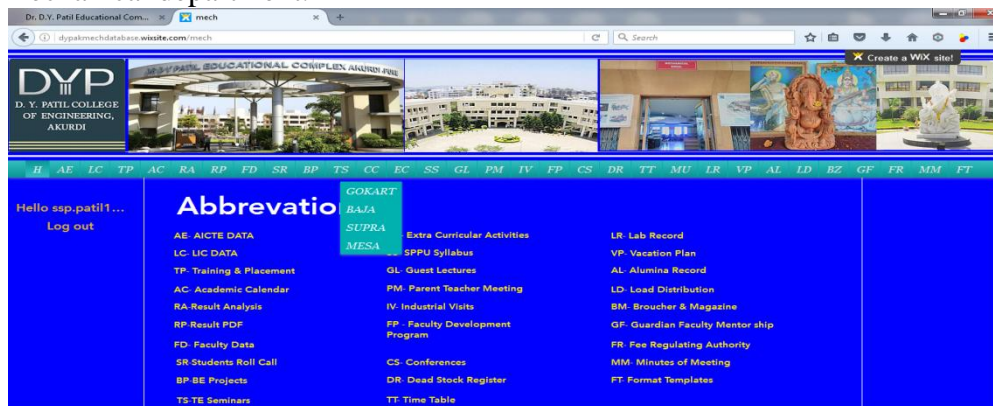
Fig7.8 Screenshot of Database Management Software of Mechanical Department

Features of Database Management:

- Easy to access all the data at any time when connected to internet.
- Readymade formats can be made available which can save time during working.
- Everything will be in soft copy so we can make records available as and when required by various committees like LIC of Savitribai Phule Pune University, AICTE, NBA and NAAC.
- Saves physical space as we don't have to maintain hardbound copies or can reduce hardbound copies.
- Easy to trace older data even more than last three years and easy to analyze the progress of department.

7.3 Best Practices

7.3.1 Elaborate on any two best practices in the given format at page no. 98, which have contributed to the achievement of the Institutional Objectives and/or contributed to the Quality improvement of the core activities of the college.

Best Practices

- MoU with Industries
- ERP
- Progressive Assessment Sheet
- Infosys Campus Connect Foundation Programme
- Teacher Guardian Scheme
- Terrain Vehicle (ATV) development for SAE BAJA INDIA Competition
- Vehicle development under SUPRA
- Team Illuminati (Astronomy Club)
- Entrepreneur Development cell
- Industrial In Plant Training/ Internship
- Google Drive Data
- Outcome Based Education (OBE)
- Model Making
- Use of Cross-word Puzzle
- Quiz
- Gust Lecture
- Videos
- Appraisal System
- Academic Monitoring

Fig. 7.9 Best Practices of College

Best Practice 1

Title of the Practice:- MoU with Industries

- In order to overcome a technological gap between Educational Institute and Industry requirements, College is developing contact with various industries. This interaction is operated under MoU (Memorandum of Understanding). MoU is executed to promote and strengthen the Industry-Institute Interaction for mutual benefits.

Best Practice 2

Title of the Practice:- ERP

- It works to ensure attendance is maintained by performing a cycle of activities that analyzes student absences, looks for solutions to correct, sets targets for improvement, seeks working interventions, and finally assesses solutions.

Best Practice 3

Title of the Practice:- Progressive Assessment Sheet

- Progressive assessment refers to frequent, interactive assessments of student progress and understanding to identify learning needs and adjust teaching appropriately.

Best Practice 4

Title of the Practice:- Infosys Campus Connect Foundation Programme

- Campus connect is an industry-academia partnership initiative launched by Infosys. The campus Connect initiative aims to enhance the level of Engineering students, nationwide and thus increases the employability of these Engineers.

Best Practice 5

Title of the practice:- Teacher Guardian Booklet

- With the help of impact analysis section of the teacher guardian booklet, teacher can monitor student progress and can guide and counsel them if required. With this practice, this is perhaps the only one of its kind, guarantees additional assurance to the new comers.

Best Practice 6

Title of the practice:- All Terrain Vehicle (ATV) Development for SAE BAJA INDIA Competition.

- With Dr. K C Vora at the helm and Dr Pawan Goenka, as the Chairman of the steering committee launched the BAJA SAE INDIA in 2007. Dr. K C Vora and Dr Pawan Goenka, as the Chairman of the steering committee launched the BAJA SAE INDIA in 2007. As they ventured into unchartered territory of holding a mega-event of this scale, the Automotive Research Association of India (ARAI) and National Automative Testing and R&D Infrastructure Project (NATRIP) came forward to lend a helping hand through an earmarked zone at its upcoming proving grounds – National Automotive Test Tracks (NATRAX), situated at Pithampur, Indore.

Table No.7.3 Awards won by college team at different Events.

SN	EVENT	All India Ranking	Achievements (AIR)	Cash Price (Rs.)
1	BAJA SAE INDIA 2015	All India Rank-2nd	Overall-2nd	2,00,000
2	BAJA SAE INDIA 2016	All India Rank-6th	-	-
3	ENDURO STUDENT INDIA 2017	All India Rank-5th	Acceleration-3rd	-
4	BAJA SAEINDIA 2017	All India Rank-4th	Acceleration-3rd Suspension &	-

		Traction-3rd Manuverability-4th Endurance Race-4th	

Best Practice 7

Title of the Practice:- Vehicle Development under SUPRA

- In this activity students work in different groups like marketing, design and analysis (chassis design, suspension system, steering system, braking system, Electric and electronic system design etc.), manufacturing etc. as per their interest. They manufacture the car in the college and participate in the SUPRA event organized by the SAE INDIA

Best Practice 8

Title of the practice:- Team Illuminati (Astronomy Club)

- The main goal of this club is to provide an opportunity for students to broaden their knowledge of Astronomy and to interact with other students who have interest in Astronomy.

Best Practice 9

Title of the Practice:- Add On Course

- Add on Course like Industrial automation using PLC & SCADA teaches students latest trends and technologies adopted by Industry and hands on experience with latest hardware and software used in Industry.

Best Practice 10

Title of the Practice:- Entrepreneur Development Cell

- The Entrepreneur Development cell is an organization used to make students grow their leadership skills, marketing skills, economical balance, corporate skills, etc.

Best Practice 11

Title of the Practice:- Industrial In Plant training/ Internship

- Industrial in Plant Training is a powerful tool to enhance the practical learning experience of students beyond the theoretical academic structure of the curriculum. It also helps to enhance the Industry-Institute Interactions.

Best Practice 12

Title of the Practice:- Google Drive Data

- Google Drive is used to share study resource material like ppts, notes, quizzes, question bank, previous year question papers etc among students, so that student can access these data anytime.

Best Practice 13

Title of the Practice: - Outcome Based Education (OBE)

- Outcome Based Education is used to perform teaching learning process so as to encourage students and faculty to have outcome based approach.

Best Practice 14
Title of the Practice:- Model Making

- Model making is used to provide more practical knowledge with theoretical concepts. It will help to better understand the insight of any machine, software and instrument.

Best Practice 15
Title of the Practice:- Use of Cross-word Puzzle

- Cross-word puzzle is used to create interest among students to encourage learning. It is a interesting way of taking revision among students.

Best Practice 16
Title of the Practice:- Quiz

- Quizzes are a part of teaching learning process, to take revision of what is taught in class, faculty conducts quizzes to revise the concepts regularly.

Best Practice 17
Title of the Practice:- Guest Lecture

- Guest lectures are organized to cover the topics beyond syllabus. Through guest lecturers students get aware of the technology and recent trends in industry.

Best Practice 18
Title of the Practice:- Videos

- Video lectures are provided to the student for self learning and enhancing their own knowledge. One such activity is e-learning through NPTEL website. Students enroll themselves in various courses to gain knowledge.

Best Practice 19
Title of the Practice:- Appraisal System

- A well defined Appraisal System is used to motivate faculty to improve and enhance their personality. The Appraisal System consist of various domain like teaching learning, research activities, personality development, contribution to industry and etc.

Best Practice 20
Title of the Practice:- Academic Monitoring

- This practice is used to keep the record that whether lectures and practicals are conducted properly or not according to the timetable. It also used to keep record of student strength present on a particular day. This practice is performed daily.

Best Practice I

1. **Title of the Practice**:- MoU with Industries
2. **Goal:-** To improve Industry Institute Interactions.
3. **The Context:-** In order to overcome a technological gap between Educational Institute and Industry requirements, College is developing contact with various industries. This interaction is operated under MoU (Memorandum of Understanding). MoU is executed to promote and strengthen the Industry-Institute interaction for mutual benefit. A collaborative effort of industries and academic Institutions for the welfare of society is a key ingredient for a success

of Engineering education. The noble cause of nation building encourages Institutions to establish MoUs with neighboring Institutions and industries on viable collaborative/ consultancy projects with specific time-frames and well-defined outputs. The collaboration could be in the areas of, Joint projects of students and faculty, joint publications, joint sponsored projects from funding agencies, joint faculty and staff development programs, joint consultancy projects with a sound revenue sharing model etc.

4. **The Practice:-**

- **Roles and responsibilities of Industry:**
  - To organize and conduct Technical events like hands-on training, workshops, conferences, exhibitions, seminars, guest lectures etc.
  - To conduct research on Engineering topics jointly by faculty members and industry professionals.
  - To organize industrial visits for students with mutual consent.
  - To provide in-plant training to the students & faculty members.
  - To provide assistance and sponsorship to UG and PG students for their projects wherever possible.
  - To share industry resources for activities of mutual interest.
  - To train the students to enhance their employability by conducting training programs to bridge the gap between academics and industry.
  - To guide students in Publishing and issuing technical bulletins/ news letter and course material with latest technological developments.
  - To provide Project Offloading for Interested Students and Staff in Robotics, Motion Control and Artificial Intelligence.
  - Appoint a Responsible Coordinator for this MoU Activity and Accountability.

- **Roles and Responsibilities of Institute:**
  - Provide an opportunity to UG & PG Engineering Students for job interviews.
  - Training for employees from shop floor level to managerial level on technical/ managerial topics.
  - Seminar, Consultancy / Laboratory Testing facilities conduction in Institute.
  - Implementation of any technical/social program, theme, competition conducted by company, etc.
  - Institute will allot the Robotics and Mechatronics Lab set up and development to PMS Robotics Research Centre, Pune.
  - Institute arranges the workshop and Professional Courses of PMS Robotics on Commercial Basis.
  - Appoint a Responsible Coordinator for this MoU Activity and Accountability.

5. **Evidence of Success:-**

Table 7.4 MoU with Industries

SN	Name of the Industry	Core Activity	Particulars	Academic Year
1.	Pantech Prolabs India Pvt Ltd, Pune	FDP 1	Arduino	2016-17
		FDP 2	Raspberry Pi	2015-16
2.	NVIDIA, Pune	Workshop	GPU, kernel programming model	2014-15
		Training centre	CUDA training centre	2013-14
3.	BSNL, Pune	Training or Internship	EETP (Employability Enhancement Training Program)	2013-14
4.	Pune Techtrol, Pune	Faculty training	Data acquisition	2015-16
		Industrial Visit	TE students IV	2015-16
5.	TSSC (Telecom sector skill council – India), Delhi	FDP	Telecom embedded Hardware developer	2015-16
6.	Infosys, Pune	Webinar	Infosys Campus Connect Foundation Programme 4.0	2016-17
			Overview of Android, Andrid UI and Event Handling, Services and Broadcast receivers in Android, and Native Data Handling	2014-15
7.	Tier-I Institute COEP, PUNE	Faculty visited to COEP and its different departments.	Research publications	2016-17
		Virtual lab		
8.	INSTRON EDU Camp, Pune	Add on Course	Industrial Automation	2016-17 2015-16

9.	Engineering Cluster, Pune	Value added courses.	Course in Engineer Employability	2015-16 2016-17
		Industrial visits.		
10.	P M S Robotics Research Centre, Pune	Faculty Development Programmes.	Modernization in Mechanical Engineering Education	2016-17
		Sponcered Projects	PG Mechanical Engineering Design	
		Robotics Workshop.	Expert Industrial Robotics Workshop on live Robots	
		Centre of Excellence in Robotics.	2 students are placed AY 2016-17	
11.	Indtech Udyog	Internship for students.	7 students completed internship.	2016-17
12.	Sidhakala Engineers	Internship for students.	4 students completed internship	2016-17
			2 students were placed AY 2016-17	
13.	Vedanta Metal Products	Training Internship, GET Projects	3 students are placed in AY2016-17	2016-17
14.	IFS Academy, Pune	Training	Value Added Courses in CAD/CAM/CAE	2014-15/2015-16/2016-17

6. **Problems Encountered and Resources Required:-**

The aMoUnt of Industrial Research and Development related projects should be involved in academics.

7. **Notes:-**

Activities under MoU improve technical knowledge of students and make them involved in industry related projects.

Best Practice II

1. **Title of the Practice:-** ERP

2. **2. Goal:-** ERP Management System is designed to reduce staff workload along with improving automated time and attendance system, keeping the parents also in the loop.

3. **The Context:-** ERP Management System provides a powerful cloud-based solution for schools and higher education Institutions to reduce staff workload and improve efficiencies with automated time and attendance system. It works to ensure attendance is maintained by performing a cycle of activities that analyzes student absences, looks for solutions to correct, sets targets for improvement, seeks working interventions, and finally assesses solutions.

4. **The Practice:-**
   - Register students and staff with their respective IDs as Roll Nos and Employee Id respectively.
   - At every class the teacher has to mark attendance using web.
   - Analyze attendance data,
   - Identify absent & tardy students
   - Share attendance records with parents, message the parents if the student is absent for the class immediately, so that further absenteeism of the student can be prevented.
   - Generate daily/weekly/monthly attendance reports for students or staff to set attendance goals,
   - Engage students and parents
   - Try out disciplinary interventions to improve attendance
   - Set up reward system to promote positive attendance.
   - To Assess what makes for good attendance

5. **Evidence of Success:-**
   - Current and previous year's records are readily available.
   - Available via the internet at all times and from any location
   - Automated messaging of requests for absence.
   - Employees can easily view their individual leave summaries for the entire year.
   - Your data can be easily copied and pasted to other applications.

6. **Problems Encountered and Resources Required:-**
   - Sometimes when everyone accesses the system at the same time, it might be bit slow but that slowness could be due to internet speed also. We are planning to implement in Hadoop to increase the speed and accessibility.

7. **Notes:-**

Thus there are many advantages in this system as,
   - Reduce errors as there are no possibilities for human error.
   - Increase Productivity as the process is seamless and makes day-to-day operations more efficient and convenient. Eliminating manual practices, frees up employees time, decreases staffing overhead, and provides supervisors with timely management data more effectively.
   - Save Money by calculating and processing time data to process attendance and payroll can take a lot of time, but with an automated time and attendance solution, Institute is able to increase efficiency and save money.
   - Increase Employee satisfaction.

Evaluative Report of Civil Engineering Department

1. Name of the department**:** Civil Engineering
2. Yearof Establishment:
   - UG: - 1984
   - PG:
   - ME Construction Management :-2009
   - ME Environmental Engineering:-2012
   - Ph.D in Civil Engineering:-2016
3. Namesof Programmes/Coursesoffered:
   - UG: - Bachelor of Civil Engineering
   - PG: - Master of Engineering
   - ME Construction Management
   - ME Environmental Engineering
   - Ph.D in Civil Engineering
4. Names of Interdisciplinary courses and the departments/ units involved
   - UG–

SN	Name of the Course	Branch
	NIL	

5. Annual/semester/choice based credit system(programme-wise):

SN	Name of the Course	Branch	Annual/Semester based credit system
1	BE Civil Engineering	Civil	Semester pattern Credit system introduce from FE 2015(Implemented up till SE)
2	Master in Civil Engineering	CM/Env. Engg.	Credit based system

6. Participation of the department in the courses offered by other departments**:**

SN	Name of the Course	Subject	Semester	Other Department Name
1	FE	Basic Civil & Environmental Engineering	I	E&TC, IT, Mechanical,Computer, Production, Instrumentation,
2	FE	Engineering Mechanics	II	E&TC, IT, Mechanical , Computer, Production, Instrumentation

7. Courses in collaboration with other universities, industries, foreign institutions, etc:

SN	Name of the Course	University/Industry/ Institution Name
1	UG/PG Civil Engineering	NIL

8. Details of courses/ programmes discontinued (if any) with reasons: NIL

9. Number of teaching posts:

Post	Sanctioned	Filled
Professor	6	02
Associate Professor	12	03
Assistant Professor	32	36

10. Faculty profile withname, qualification, designation, specialization, (D.Sc. / D.Litt. /Ph.D. /M. Phil.etc.,)

SN	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of PhD Students Guided for the Last 4 years
1	Dr Alka Pisal	Ph.D	Associate Prof	Structures	11	NA
2	Mrs.Smita Pataskar	ME	HOD, Asst. Prof.	Construction Management	24	NA
3	Dr. Mrs. Alka Kote	Ph.D	Professor	Water Resources Engineering	30	01
4	Mr. Sachin J. Mane	ME	Asst.Prof.	Environmental Engineering	13	NA
5	Mr. A. A.Suryawanshi	ME Tech	Associ. Prof.	Structures	36	NA
6	Dr. N. S. Jain	PhD	Associ. Prof.	Geology	25	NA
7	Mrs. Nilam S. Phadtare	ME	Asst.Prof.	Construction Management	6	NA
8	Mrs. Sneha karan Sawant (Ganpule)	ME	Asst.Prof.	Construction Management	6	NA
9	Mr. Viraj R. Kashikar	ME	Asst.Prof.	Environmental Engineering	5	NA
10	Ms. Arti Hiremath	ME	Asst.Prof.	Geotechnical Engineering	4	NA
11	Col B. K. Bhonde (Retd)	ME	Asst.Prof.	Construction Management	33	NA
12	Mrs. Ashwini Patil	ME	Asst.Prof.	Construction Management	5	NA
13	Miss. Birajdar Savita S.	ME Tech	Asst.Prof.	Structures	3	NA
14	Mr. V. B. Kulkarni	ME Tech	Asst.Prof.	Structures	4	NA
15	Mrs. Shalaka S. Utkar	ME Tech	Asst.Prof.	Structures	2	NA
16	Ms. A. Chandragade	ME Tech	Asst.Prof.	Environmental Engineering	6	NA
17	Ms. Aruna Sharma	ME Tech	Asst.Prof.	Environmental Engineering	6	NA

18	Mr. Sudhanshu Pathak	ME	Asst.Prof.	Construction Management	8	NA
19	Ms. Sadhana Shalu	ME	Asst.Prof.	Construction Management	10	NA
20	Mrs. Mira Shah	ME Tech	Asst.Prof.	Transportation Engineering	3	NA
21	Mrs. Prgya Singhal	ME Tech	Asst.Prof.	Structures	3	NA
22	Ms. S. S. Ramteke	ME Tech	Asst.Prof.	Structures	1	NA
23	Ms. Vardani V. Parsekar	ME Tech	Asst.Prof.	Structures	5	NA
24	Ms. Rohini Khandelwal	ME Tech	Asst.Prof.	Structures	4	NA
25	Mr. Paresh Mirgal	ME Tech	Asst.Prof.	Structures	5	NA
26	Mrs. S. Chakraborty	ME Tech	Asst.Prof.	Structures	4	NA
27	Mr. Avadhut Kulkarni	ME Tech	Asst.Prof.	Construction Management	3	NA
28	Mr. Shivanand Tenagi	ME Tech	Asst.Prof.	Structures	0.7	NA
29	Mrs. Ashwini Joshi	ME Tech	Asst.Prof.	Construction Management	7	NA
30	Ms. Shefali R. Ghutke	ME Tech	Asst.Prof.	Water Resources Engineering	0	NA
31	Mr. Santosh Undi	ME Tech	Asst.Prof.	Water Resources Engineering	0	NA
32	Mr. Rajvardhan Patil	ME Tech	Asst.Prof.	Hydraulic	0	NA
33	Mrs Deepa Rai	ME Tech	Asst.Prof.	Water Resources Engineering	2	NA
34	Mrs Prital Kalsure	ME Tech	Asst.Prof.	Structures	2	NA
35	Mrs Aradhana Chavan	ME Tech	Asst.Prof.	Construction Management	3	NA
36	Mr. Sangmesh Ghale	M.Tech	Asst.Prof.	Transportation Engineering	4	NA
37	Mr. Mahesh Tatikonda	M.Tech	Asst.Prof.	Structures	4	NA
38	Mr. Vishal V. Panchal	ME Tech	Asst.Prof.	Water Resources Engineering	6	NA
39	Mr. Pravin D. Pawar	ME Tech	Asst.Prof.	Structures	2	NA
40	Mr. Sunil Payghan	ME Tech	Asst.Prof.	Structures	5	NA
41	Mr. Kailash Biradar	ME Tech	Asst.Prof.	Geotechnical Engineering	5	NA

11. List of senior visiting faculty:

SN	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of PhD Students Guided for the Last 4 years
1	Mr Jagdish Dagaonkar	BE	Adjunct Faculty	Construction Management	40	NA
2	Mrs Shachi Sant	ME	Adjunct Faculty	Water Resources Engineering	20	NA
3	Mr Mayur Sant	ME	Adjunct Faculty	Environmental Studies	20	NA
4	Mr.M. R.Biradar	ME	Adjunct Faculty	Civil Engineering	20	NA
5	Mr. Madhav Kaluskar	ME	Adjunct Faculty	Environmental Engineering	30	NA
6	Mr.Anil Dhoble	ME	Adjunct Faculty	Environmental Engineering	20	NA
7	Mr.Dubash Meherza	ME	Adjunct Faculty	Construction Management	16	NA
8	Mrs.Varsha Kanetakar	ME	Adjunct Faculty	Structures	19	NA
9	Mrs.Hema Patel	ME	Adjunct Faculty	Environmental Engineering	15	NA

12. Percentage of lectures delivered and practical classes handled (programme-wise) by temporary faculty: 20%

13. Student-Teacher Ratio (Programme wise)

SN	Name of the Course	Total Student	Total Faculty	Student – Teacher Ratio
1	UG	713	44	16.20:1
2	PG (Env.Engg.)	26	3	8.6:1
3	PG(CM)	34	3	11.3:1

14. Numberofacademicsupportstaff(technical)andadministrativestaff;sanctioned and filled:

Number of academic support staff	Sanctioned	Filled
Technical Staff	4	4
Administrative Staff	6	6

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil/PG.

No. of teaching faculty with Ph.D.	No. of teaching faculty with M.Tech.	No. of teaching faculty with B.E.	Total No. of faculty
03	47	NIL	50

16. Numberoffacultywithongoingprojectsfroma)Nationalb)Internationalfunding agencies andgrantsreceived: NIL
17. Departmentalprojectsfundedby DST-FIST;UGC, DBT, ICSSR,etc.andtotal grants received:

Sr.No	Name of the Person Received Grant	Year	Funding Body	Title of Grant	Total Grant
1	Mr.W.N.Deulkar	2006-07	Pune University	Techniques of controlling seismic response of structures	2 lac
2	Mr.W.N.Deulkar	2007-08	Pune University		1.5 lac
3	Mr.W.N.Deulkar	2008-09	Pune University		1 lac

18. Research Centre/ facility recognized by the University: NIL
19. Publications:
   - Publication per Faculty:- 2.19
   - Number of papers published in peer reviewed journals (national/international)by faculty and students:
     By faculty: - 70
     By Students:-20
   - Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare DatabaseSciences Directory, EBSCO host, etc.): 04
   - Monographs: NIL
   - Chapter in Books: 01
   - Books Edited: 01
   - Books with ISBN/ISSN numbers with details of publishers: 02
   - Citation Index: 08
   - SNIP: NIL
   - SJR: NIL
   - Impact factor: 0.1 to 4
   - h-index: 04
20. Areas of consultancy and income generated: 01
21. Faculty asmembers in
   a) Nationalcommittees
   b) International Committees
   c) Editorial Boards…

SN	Name Of Faculty	Member in Committee / Editorial Board
1	Dr. Alka Pisal	Cambridge Press University.

22. Student projects

a) Percentageof students who have done in-house projects including inter departmental/programme:

Sr.No	Academic Year	Percentage of students who have done In-house projects
1	2015-16	100

b) Percentage of students placed for projects in organizations outside the institution i.e.inResearchlaboratories/Industry/ otheragencies: NIL.

23. Awards/Recognitionsreceivedbyfacultyandstudents:

Department level Students Achievement

Year 2016-2017

SN	Name of Students	Event Name/Details	Position Secured
1	Vedika Wani, Dipali Bandgar,Rajshri Koli	Bob the Builder	2nd Rank
2	Vaibhav Salave,Vishal Pawar	Survey Hunt	2nd Rank
3	Dipali Bandgar, Rajshri Koli	Buoyancy	2nd Rank
4	Tejas Shimpi	Model Exhibition	1st Prize

Year 2015-2016

SN	Name of Students	Event Name/Details	Position Secured
1	Bilpe Sachin	Chess competition , Satej Karandak	1st Prize
2	Bilpe Sachin	Chess competition ,Annual sports	1st Prize
3	Sagar Surwade	Human Chess , Insperia	2nd Prize

Year 2014-2015

SN	Name of Students	Event Name/Details	Position Secured
1	Sachin Bilpe	Chess competition	1st prize
2	Sagar Suruwade	Chess competition	2nd prize

Achievements of students in Technical Events organized by other institutes

Year 2016-2017

SN	Name of Students	Event Name/Details	Position Secured
1	ALL STUDENTS	Nirmiti 2016	Best Performing College
2	Mahesh Hinge	Vidyarthi award 2015-2016	2nd Prize
3	Bilpe Sachin	Chess competition,Satej Karandak	1st Prize
4	Bilpe Sachin	Chess	1st Prize

		competition,Annual sports	

Year 2016-2017

SN	Name of Students	Event Name/Details	Position Secured
1.	Sagar Surwade	Human Chess, Insperia	1st Prize
2.	Sagar Surwade	Chess competition ,Annual sports	2nd Prize
3.	BE Student Project group Rajat Bante, Sangram singh Gund,Sable Sachin, Mahesh Hinge, Ubale sachin, Mali Ghanshyam	Constro 2016	Pad.B.G.Shirke Vidyarthi award
4.	BE Student Project group Rajat Bante,Sangram singh Gund,Sable Sachin,Mahesh Hinge,Ubale sachin,Mali Ghanshyam	Insight 2016	2nd Position
5.	BE Student Project group Rajat Bante,Sangram singh Gund,Sable Sachin,Mahesh Hinge,Ubale sachin,Mali Ghanshyam	ALACRITY 2016	1st Position
6.	Vishal Bhat	BOB the Buider Nirmitee 2016	3rd Prize
7.	Akash Matte	BOB the Buider Nirmitee 2016	3rd Prize
8.	Ashutosh Deshmukh	BOB the Buider Nirmitee 2016	3rd Prize
9.	Abhiraj Mehta	BOB the Buider Nirmitee 2016	3rd Prize

24. List of eminent academicians and scientists / visitors to the department:

SN	Name of visitor	Organization represented	Name of event	Date of visit
1	Mr. Anil Pantoji	RTO Inspector	Guest Lecture on Road Safety Management	20th Jan 2017
2	Mr. Hanumantappa	CWPRS recourse Person	Guest Lecture on Slope stability analysis in Dams	14th Jan 2017
3	Mr. Anil Dhobale	Constrologix Consultancy	Guest Lecture on Foundation Engineering	28 Jan 2017
4	Mr. Rahul Dhadphale	Urjal Consultants Pvt.Ltd.	Guest Lecture on Plumbing Engineering	28 Feb 2017
5	Pragati Singh	All India Institute of Local Self Govt.	Guest Lecture on GIS	20th Jan 2017

25. List of Seminars/Conferences/workshops organized & source of Funding:

    a. National :

    Seminar

SN	Title of Seminar organized	Year	Source of

			Funding
1	Disaster Management	2015-16	CESA
2	Career Planning & Development	2014-15	CESA

Conferences

SN	Title of Conferences organized	Year	Source of Funding
1	National conference on TACE 2015	2015-16	Institute

Workshops

SN	Title of workshops organized	Year	Source of Funding
1	One day workshop on "Introduction to MS Project"	2016- 2017	Nil
2	Two day workshop on "Introduction to Staad Pro"	2016- 2017	Nil
3	Bridge Design IBCC	2015-16	Nil

b. International: NIL

26. Student profile programme / course-wise:
*M=Male *F=Female

Academic Year	Applications received	Selected	Enrolled		Pass Percentage
			M	F	
2015-16(UG)	As the admission process is governed by DTE. The rules and regulations of DTE are followed in the admission process	127	110	17	31.49
2015-16(PG CM)	Only non zero positive GATE score is valid to take admission for ME	17	9	8	100
2015-16(PG EE)		09	3	6	94.44

27. Diversity of Students

SN	Name of the Course	%of students from the same state	% of students from other States	%of students from abroad
1	Civil Engineering	24.20	75.80	nil

28.How many students have cleared national and state competitive examinations such as NET, SLET,GATE, Civil services, Defense services, etc.?:

Gate Cleared	Civil Services Cleared	Defense Services	GRE	IELTS	TOEFL
05	05	-	6	-	-

29. Student progression

Student Progression	Against Enrolled		
	2013-14	2014-15	2015-16
UG toPG	13	11	08
PG toM.Phil.	NIL	NIL	NIL
PG toPh.D.	NIL	2	NIL
Ph.D.to Post-Doctoral	NIL	NIL	NIL
Employed Campus selection Otherthancampus recruitment	13	11	35
Entrepreneurship/Self-employment	NIL	6	NIL

30. Details of Infra-structural facilities:
   a. Library: Departmental Library: Area: 15 sqm
   - No. of Reference books: 286
   - No. of text books: 96
   - No. of Journals: 68
   - No. of IS codes: 86

   b. Internet facilities for Staff & Students:
   - Internet facility for all staff through LAN cable.
   - 5mbps Wifi facilities available for all students for laptop.

   a. Class rooms with ICT facility: Computer laboratories are provided with internet facility. The classrooms are spacious and equipped with LCD projectors, Audio Visual aids.

   d. Laboratory: 09 nos

Details of Library facilities

SN	Facility provided	Details
1	Digital library	Virtual Lab, Enrollment for SWAYAM, NPTEL, National Digital Library enrollment, DELNET.
2	Internet connectivity	Yes
3	Journals	17 National and 358 International Journal
4	Magazines-Technical	NIL
5	Magazines Personality development	7
6	Industry-Institute Interaction	Faculties have visited various industries and tried to identify gaps between SPPU curriculum and on field practices.

Details of class room & staff facilities

Room	Usage	Shared/	Capacity	Rooms Equipped

Description		Exclusive		with PC, Internet, book rack
18,19,26	Teaching and Learning	Exclusive	70 nos	PC

Details of Laboratoryfacilities

SN	Curriculum Lab Description	Lab conducted in	Space, Capacity & Cost	Name of Technical Assistant	Name of Attaindent
1	Building Technolgy Materials, Architectural Planning & Building Design	Computer Lab	66 Sq m 25nos	A.R.Bawadekar	R.B.Kamble
2	Transporatation Engg, Advanced Transportation Engg	Transportation Lab	66 Sq m 25 nos	Mrs.U A Jadhav	R.B.Kamble
3	SE(Civil) & BE(Civil) Engineering Geology/ Advanced Engineering Geology with Rock Mechanics	Geology Laboratory/ Museum	66 sqm 25 nos	Mrs.U A Jadhav	R.B. Kamble
4	Geotechnical Engineering	Geotechnical Lab	80 Sqm Nos	Mr.A.V. Bawdekar	M S Chaugule
5	Environmental Engineering I & II	Environmental Engineering	66sqm. 25Nos	Mrs.U A Jadhav	M S Chaugule
6	Dams & Hydraulic structures, Fluid MechanicsI, Fluid MechanicsII	Fluid Mechanics	90sqm 25 Nos	Mr. R. A. Patil	M S Chaugule
7	Advance Surveying , Surveying	Surveying	66sqm 25 nos	Mr. R. A. Patil	M S Chaugule
8	Concrete Technology, Strength of Materials,	Testing of Materials	66 Sq.m 25 nos	Mr.A.V. Bawdekar	M S Chaugule
9	Tutorial	PG Lab	66sqm 18nos	Mr.A.V. Bawdekar	R.B.Kamble

31. Number of students receiving financial assistance from college, university, Government or other agencies

Agency	Number of Students receiving Financial assistance		
	2014-15	2015-16	2016-17

Scholarship	214	274	Inprocess

32. Details on student enrichment programmes (special lectures/ workshops/ seminar) with external experts:

Year 2016-2017

SN	Title of Program	Institution/ Organization	Resource Person	Date of visit	UG/PG/ PhD
1	Guest Lecture on Road Safety Management	RTO Inspector	Mr. Anil Pantoji	20th Jan 2017	UG
2	Guest Lecture on Slope stability analysis in Dams	CWPRS recourse Person	Mr. Hanumantappa	14th Jan 2017	UG
3	Guest Lecture on Foundation Engineering	Constrologix Consultancy	Mr. Anil Dhobale	28 Jan 2017	UG
4	Guest Lecture on Plumbing Engineering	Urjal Consultants Pvt.Ltd.	Mr. Rahul Dhadphale	28 Feb 2017	UG & PG
5	Guest Lecture on GIS	All India Institute of Local Self Govt.	Pragati Singh	20th Jan 2017	UG
6	Guest Lecture on Concrete Technology	Mahlunje RMC Plant	Mr.Anil Jadhav	14th March 2017	UG
7	Guest lecture on total Quality Management	President Deming Forum, India	Mr. Balaji Reddy	1July 2016	UG
8	Guest lecture on River Engg & Magt	CWPRS Resource Person	Dr.R.G.Patil	23rd July2016	UG
9	Guest lecture on Introduction to Staad Pro	Aker Solutions Pvt.Ltd. Baner	Mr.Yogesh Pisal	10th Sept 2016	UG
10	Workshop on Infrastructure Development	Bhath Consultancy	Mr. Ramnath Bhath	10th Sept 2016	UG

Year 2015-2016

SN	Title of Program	Institution/ Organization	Resource Person	Date of visit	UG/PG/ PhD
1	Guest lecture on Concrete: Heart of Civil Engineering	Senior Manager of TATA housing pvt.ltd	Mr.Vinod Achtani	3rd Feb 2016	UG
2	Guest lecture on Transfer of Development Rights & the Compliances	Mr.Viraj Gawade, Asst. Manager Gawade Construction	Mr.Viraj Gawade	3rd Feb 2016	UG
3	GIS	Asst.Prof Wadia College	Mr.A.S.Shelar	18th March 2016	UG
4	Construction	Structural Consultancy	Mr.Pradip	31st	UG

	Management		Shinkar	March 2016	
5	TACE 2015	Director Construction diagnostics pvt.ltd	Mr. Ravi Ranade	10th July 2015	UG/PG
		Director GIS expert of Monarch Surveyors	Mr. Om Dhawale	10th July 2015	
		Vice president of Viraj Projects PVT LTD	Mr. A. K. Bal	10th July 2015	
		Managing Director of UNISON PMC PVT LTD	Mr. V. K. Deshpande	11th July 2015	
		Dean Administrative D.Y. Patil Institute of Engineering& Technology, Pimpri, Pune.	Dr. R. K. Lad,	11th July 2015	
		IIT Bombay	Emiratus Dr. S.L Dhingra,	10th July 2015	
		Lt Gen,PVSM VSM	Deepak Ajwani	10th July 2015	
6	Guest Lecture on Communication Skills for TE & BE	Mr.V.K.Deshpande	Founder Director Unison Project Management Pvt Ltd	31st July 2015	UG
7	One day seminar on Disaster management for SE,TE,BE	Mandar Vaidya	Development Manager, Red R India	4th Sept 2015	UG
8	Bridge Design Workshop by IIT Madras for TE & BE	Rahul Puri	ARK Techno Solution & IBCC India Team	4th Sept 2015	UG

Year 2014-2015

SN	Title of Program	Institution/ Organization	Resource Person	Date of visit	UG/PG/PhD
1	Advanced Surveying Technique	Asst.Prof Wadiya College	Prof. A.S.Shelkar	24 Jan 2015	UG
2	Career Planning & Development	MITCON	Mr.Sameer Alone	25/2/2015	UG
3	E Tendering	PCMC Sr.Engineer	Mr.Abhiman Bhosale	4/3/2015	UG
4	Beauty Of Steel Structure	Structural Consultant	Mr. A.N.Purandare	27 Aug 2014	UG
5	Quality Management	President Deming Forum, India	Mr. Balaji Reddy	13 Sept 2014	UG

6	Hydro-Electric Project(Koyna)	Hydro-Electric Project(Koyna)	Mr. C.R.Khopade	13 Sept 2014	UG
7	Best Practices in construction	Best Practices in construction	Mr. Amol Deogankar	15 Sept 2014	UG
8	FDP (Professional Advancement of Engineering Faculty)	DYPCOE,Akurdi	Dr.B.S. Balapgol	09 Dec 2014	UG

33. Teaching methodsadopted to improve student learning:

Unit wise notes, Standard lab manual are prepared right at the beginning of semester. This activity helps the faculty members of the same subject to maintain uniformity across various classes.To inculcate the knowledge delivery skills a faculty induction program wasconducted at the institute level.

1. Assignments are given to students based on each unit.
2. Power point presentation and NPTEL resource materials are used by Faculty for delivery of subject matters.
3. Tutorial are organized for improving the problem solving skills
4. Industrial visits are organized.
5. Guest lecturers of eminent personalities from academic institute as well as Industries are organized to enhance the student's knowledge.
6. Internship program are organized to bridge the gap between theory and practical.
7. Pedagogical activities like puzzles, quiz, model making, and visits are conducted to enhance student learning.
8. Technical exhibition, poster competition etc. are organized which involved blending if theory and practical

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

- World Water day
- Celebration of festivals with under privileged people of societies.
- Cloth donation camp
- Visit to orphanage & old age homes.
- Tree Plantation
- Celebration of festivals with artisans and government servants.

35. SWOC analysis of the department and Future plans

Strengths:-
- College located in Urban area.
- MOU with COEP.
- Well qualified faculties of all core areas of civil engineering.
- Well-equipped laboratories

Weakness:-
- Curriculum lack in practical approach.
- Lack of Prescibed Industrial Training in curriculum.

Opportunity:-
- PG courses in Structural and Transportation Enginnering.
- Scope of consultancy services in major field of civil engineering.

- Fetching more research grants from state/ national agencies.

.**Challenges:**

- Strengthening employability skills in students.
- Effective academic collaboration atpart with industries standards.
- Developing cutting edge technologies for SMART cities, sustainable development.

Future Plans:-

- International Collaboration.
- Imparting students training for advance software.
- Arranging National and International conferences.

Evaluative Report of Computer Department

1. Name of the department:Computer Engineering
2. Year of Establishment:
   - BE in year 1984
   - ME in year 2003
3. Names of Programmes /Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)
   - B.E (Computer Engineering)
   - M.E (Computer Engineering)
4. NamesofInterdisciplinarycoursesandthedepartments/units involvedUG

SN	Name of Course	Subject Name	Semester	Branch
1	FE	Engineering Mathematics-I	I	First Year
2		Engineering Physics or Chemistry		
3		Basic Electrical Engineering or Basic Electronics Engineering		
4		Basic Civil and Environmental Engineering		
5		Engineering Graphics		
6		Workshop		
7		Engineering Mathematics-II	II	First Year
8		Engineering Physics or Chemistry		
9		Basic Electrical Engineering or Basic Electronics Engineering		
10		Engineering Mechanics		
11		Engineering Mechanical Engineering		
12		Engineering Graphics-II		
13	SE	Soft Skills	III	Soft skill Department
14		Engineering Mathematics-III	IV	First Year

5. Annual/semester/choice based credit system(programme wise):

SN	Name of the Course	Branch	Annual/Semester based credit system
1	Bachelor of Engineering	Computer Engineering	Semester based Credit system
2	Master in Engineering	Computer Engineering	Semester based Credit system

6. Participationofthedepartmentinthecoursesofferedbyotherdepartments:

SN	Name of Course	Subject Name	Semester	Branch
1	FE	Fundamental of	I	Civil

2		Programming Languages-I		Electronics and Telecommunication
3		Fundamental of Programming Languages-II		Civil
4	FE		II	Electronics and Telecommunication

7. Coursesincollaborationwithotheruniversities,industries,foreigninstitutions, etc: NIL

8. Detailsofcourses/programmes discontinued(ifany)withreasons: NIL

9. Numberof teaching posts:

Post	2016 -17	
	Sanctioned	**Filled**
Professor	3	-
Associate Professor	7	2
Assistant Professor	21	26

10. Facultyprofilewithname, qualification, designation, specialization, (D.Sc. /D.Litt. /Ph.D. /M. Phil.etc.,)

Sr. No	Name	Qualification	Designation	Specialization	No of year of Experience	No of PhD. Students Guided for the Last 4 years
1	Dr.Mrs.Neeta Deshpande	PhD	Associate Prof.	Multimedia Security & Image Processing	18 years	Nil
2	Dr. Kailash Shaw	PhD	Associate Prof.	AI,Conservation Biology, Pricing theory, Bio informatics, DM	13 years	Nil
3	Mrs. D. A. Phalke	ME Computer Engg.(PhD Pursuing)	Asst.Prof.	DM,IR,Video Processing	15.3 years	Nil
4	Mrs. V. L. Kolhe	ME Computer Engg.	Asst.Prof.	DM,IR	12.9 years	Nil
5	Ms. S. S. Pawar	ME Computer Engg.	Asst.Prof.	Algorithms	13.6 years	Nil
6	Ms. D. B. Gothwal	ME Computer Engg.(PhD Pursuing)	Asst.Prof.	WSN	11.6 years	Nil
7	Ms. D. A. Chaudhari	ME Computer Engg.(PhD Pursuing)	Asst.Prof.	Software Testing	10.2 years	Nil

8	Mrs. Shantiguru	ME Computer Engg.	Asst.Prof.	Image Processing, WSN	15.7 years	Nil
9	Mrs. N. S. Patil	ME Computer Engg.	Asst.Prof.	Distributed Systems, Compiler Design,Data Mining	15.1 years	Nil
10	Ms. P.S. Khude	ME Computer Engg.	Asst.Prof.	NLP,Programming Languages	9.3 years	Nil
11	Mrs. M. K. Potdar	ME Computer Engg.	Asst.Prof.	Data Mining	8.3Years	Nil
12	Mr. Rahul Y. Pawar	ME Computer Engg.	Asst.Prof.	DS,CN,Network security	5.8 years	Nil
13	Ms. Vidya V. Nikam	ME Computer Engg.	Asst.Prof.	CN, Network security	8.10 years	Nil
14	Mr. Rahul Ghotekar	ME Computer Engg.	Asst.Prof.	WSN,CN	5.1 years	Nil
15	Mrs. Aditi Kalia	ME Computer Engg.	Asst.Prof.	WSN,CN	7 years	Nil
16	Mrs. Suvarna Kadam	ME Computer Engg.(PhD Pursuing)	Asst.Prof.	Machine Learning, AI	8 years	Nil
17	Ms. Vishakha Metre	ME Computer Engg.	Asst.Prof.	Swarm Inteliigence, DM, OOPs	3.4 years	Nil
18	Ms. Shraddha Popat	ME Computer Engg.	Asst.Prof.	Data Mining, Information Retrieval	3 years	Nil
19	Ms. Snehal Mundada	ME Computer Engg.	Asst.Prof.	Cyber Security, DS	4.7 years	Nil
20	Ms. Ekta Chaudhary	ME Computer Engg.	Asst.Prof.	Web Mining and Netwroking	3.1 years	Nil
21	Ms. Dipali Patil	ME Computer Engg.	Asst.Prof.	Data Mining & Information Retrieval	2 years	Nil
22	Mrs. Vrushali Uttarwar	ME Computer Engg.	Asst.Prof.	CN,Programming Languagues	5.5 years	Nil
23	Mr. Suraj	ME	Asst.Prof.	DS, WSN, OOP,	6.5 years	NIL

	Kurde	Computer Engg.				
24	Mr. Pramod Deshmukh	ME Computer Engg.	Asst.Prof.	Data Mining, WSN	6.4 year	Nil
25	Mr. Vivek Patil	ME Computer Engg.	Asst.Prof.	CN	4.2 years	Nil
26	Mrs.Asmita Patil	ME Computer Engg.	Asst.Prof.	CN	4.8 years	Nil
27	Mrs Soniya Bastwade	ME Computer Engg.	Asst.Prof.	Data Mining	3.6 years	Nil
28	Ms.Bhavana Jain	ME Computer Engg.	Asst.Prof.	CN	1 years	Nil

11. Listofseniorvisitingfaculty:

SN	Name of Faculty	Yrs of Experience
1	Mr. Amit Marwadi	11.3
2	Mr. Shrikant Sathe	24
3	Mr. Ravishankar Inale	14

12. Percentageoflecturesdeliveredandpracticalclasseshandled(programmewise)bytemporaryfaculty:

Sl. No	Name of the Course	% of Lecture delivered	% of practical classes handled
1	Mr. Amit Marwadi	0	93%
2	Mr. Shrikant Sathe	0	96%
3	Mr. Ravishankar Inale	0	89%

13. Student-Teacher Ratio(programme-wise)

Sl. No	Name of the Course	Total Student	Total Faculty	Student – Teacher Ratio
1	UG	360	26	14:1
2	PG	50	4	13:1

14. Numberofacademicsupportstaff(technical)andadministrativestaff;sanctioned and filled:

Number of Academic Support Staff	Sanctioned	Filled
Administrative	4	4
Technical	5	5

15. QualificationsofteachingfacultywithDSc/D.Litt/ Ph.D/MPhil/ PG.

Sr. No	Academic year	No of teaching faculty with PhD.	No of teaching faculty with M.Tech	No of teaching faculty with BE	Total no of faculty
1	2016-17	2	26	0	28
2	2015-16	0	27	0	27
3	2014-15	0	25	0	25

16. Numberoffacultywithongoingprojectsfroma) Nationalb) Internationalfunding agencies andgrantsreceived: NIL

17. Departmentalprojectsfundedby DST-FIST;UGC, DBT, ICSSR,etc.andtotal grants received:

Year	Governing Body/Institute/University	Amount	Status
2016-17	SPPU		
	Research grant (Mr. Rahul Pawar, Mrs. D.A. Phalke)	100000/-	Sanctioned and Equipment is purchased
	BCUD grant : State level Seminar (Dr. Neeta Deshpande, Ms. VidyaNikam)	100000/-	Sanctioned
	SWO: 1. Personality Development Workshop (Mrs. D. A. Phalke, Mrs. S. M. Panse)	10000/-	Sanctioned and used for event
	SWO: 2. NirbhayaKanya (Dr. Neeta Deshpande, Ms. VidyaNikam)	15000/-	Sanctioned and Planned event
	SWO: 3. Laptop Repairing Workshop (Mrs. NeelamPatil)	24000/-	Sanctioned and used for event

18. ResearchCentre/facilityrecognizedbytheUniversity: NIL

19. Publications:

* a) Publication per faculty

*Number of papers published in peer reviewed journals (national /international) by faculty and students:

*Number of publications listed in International Database (For Eg: Web ofScience, Scopus, and Humanities International Complete, Dare Database 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:

∗ h-index:

		Year	Faculty		Student		Total
			IJ	NJ	IJ	NJ	
1	**Number of papers published in peer reviewed journals (national/International) by faculty and students:**	2013-14:	24	0	6	0	30
		2014-15	71	0	16	0	87
		2015-16	104	0	28	0	132
		2016-17	36	0	1	0	37
2	**Number of Publication Listed in International Database :**	Year	Faculty		Student		Total
			IC		IC		
		2013-14	54		6		60
		2014-15	14		4		18
		2015-16	8		6		14
		2016-17	3		0		3

20. Areas ofconsultancy and income generated: NIL

21. Faculty as members in

a. Nationalcommittees: NIL

b. International Committees: NIL

c. Editorial Boards: 02

22. Student projects

- Percentage of students who have done in-house projects including inter departmental/programme:

SN	Academic Year	No of Projects	No. of application based projects	No. of Researchprojects	% of Student project
1	2016-17	34	28	1	82.35%
2	2015-16	35	32	1	91.42%
3	2014-15	34	32	0	94.11%
4	2013-14	33	26	0	78.78%

- Percentage of studentsplaced for projectsin organizations outside theinstitution i.e.inResearchlaboratories/Industry/ otheragencies:

SN	Academic Year	No of Projects	No. of Sponsored Project	% of Student Project
1	2016-17	34	6	17.54%
2	2015-16	35	3	8.5%
3	2014-15	34	2	5.8%
4	2013-14	33	7	21.21%

23. Awards/Recognitionsreceivedbyfacultyandstudents:

SN	Class	Name of Student	Event Name/ Details	Venue	Participation/ Prize/ position Secured
			Academic Year 2016-17		
1	SE-A	Jai Damodare	UOP Badminton Matches	SPPU University	University Selected player
2	SE-B	Ishwar Chavhan	Zeal Ranaangan 2016 (Football), State Level Inter Engineering, Inter Polytechnic and Inter Management Sports Tournament	Zeal Education Society, Pune	Footbal Match Winner
3		Ishwar Chavhan	Vedant 16, (Football)	B.J. GMC, Pune	Best player Award
7		Yash Shrivastava	Zeal Ranaangan 2016 (Football), State Level Inter Engineering, Inter Polytechnic and Inter Management Sports Tournament	Zeal Education Society, Pune	Footbal Match Winner
8		Yash Shrivastava	MIT-Summit-2016, Football Matches	MIT, Pune	Quarter Final Qualified
9		Prachi Tandel	English Article Magazine	DYPCOE, Pune	1st Prize
10		Tahil Mirza	Short Film Contest	DYPCOE,Akurdi	2nd Prize
11	TE-B	Deepak Shinde	UOP Chess Matches-2016		2nd Prize
12		Sounak Saha	Debate Competition on Independence Day	DYPCOE, Akurdi	1st Prize
13		Soumya Kuthe	Intercollegiate Table Tennis Match	DYPCOE, Akurdi	Quarter Final Qualified
14		Shubham Kanshetty	UOP,-Kabbaddi Matches	S.B. Patil College of Engineering, Indapur	Qualified for Second Round
15		Shubham Kanshetty	MIT-Summit 2016. Kabaddi Matches	MIT, Pune	Qualified for Third Round
16		Saurabh Shinde	UOP,-Kabbaddi MatchesIndapur	S.B. Patil College of Engineering,	Qualified for Second Round
17	TE-B	Saurabh Shinde	MIT-Summit 2016. Kabaddi Matches	MIT, Pune	Qualified for Third Round
18.	BE-A	Suraj Kumar	ACM ICPC-2016,	Amritapuri University	Cleared Online Round
19.		Harshal Thosar	ACM ICPC-2016	Amritapuri University	Cleared Online Round
20.		Suraj Kumar	Inofosys Hackethon-	Infosys Pune	Reached Final

			Techzooka-2016		Round
21.		Harshal Thosar	Inofosys Hackethon-Techzooka-2016	Infosys Pune	Reached Final Round
22.	BE-B	Gaurav Shukla	ACM ICPC-2016,	Amritapuri University	Cleared Online Round
23.		Pranav Kanade	ACM ICPC-2016,	Amritapuri University	Onsite Round Participation
24		Pooja Chavhan	Inofosys Hackethon-Techzooka-2016	Infosys Pune	Reached Final Round

Academic Year 2015-16					
SN	Name of Student	Class	Name of Event	Date of Event	Venue of Event	Participation/ Winner
1.	Sagar Tirkhunde	BE	BOX CRICKET in Satej Karandak 2K16	10th-11th February 2016	DYPCOE, Akurdi, Pune	1st Position
2	Sagar Tirkhunde	SE	CHRONOS 2K16	11th-12th February 2016	DYPCOE, Akurdi, Pune	Organizer
3	Jayesh Joshi	SE	Firodiya Karandak	January 2016	Annabhau Sathe Auditorium, Bibvewadi, pune	Semi-finalist
4	Jagdish Potkule	BE	Firodiya Karandak	January 2016	Annabhau Sathe Auditorium, Bibvewadi, pune	Semi-finalist
5	Sanket Khamkar	SE	Firodiya Karandak	January 2016	Annabhau Sathe Auditorium, Bibvewadi, pune	Semi-finalist
6	Swapnil Jadhav	SE	Firodiya Karandak	January 2016	Annabhau Sathe Auditorium, Bibvewadi, pune	Semi-finalist
7	Swapnil Jadhav	SE	Technoskit, Innovision 2016- A National Level Socio-Technical Symposium	11th & 12th March 2016	JSPM Group of Institutes Tathawade Campus	3rd Best Play
8	Jayesh Joshi	SE	Technoskit, Innovision 2016- A National Level Socio-Technical Symposium	11th & 12th March 2016	JSPM Group of Institutes Tathawade Campus	3rd Best Play
9	Jagdish Potkule	BE	Technoskit, Innovision 2016- A National Level Socio-Technical Symposium	11th & 12th March 2016	JSPM Group of Institutes Tathawade Campus	3rd Best Play
10	Jayesh Joshi	SE	Bharat Karandak-Open One Act Play Competition-2015	-	Bharat Natya Sanshodhan Mandir, Pune	3rd Position

11	Jagdish Potkule	BE	Bharat Karandak- Open One Act Play Competition-2015	-	Bharat Natya Sanshodhan Mandir, Pune	3rd Position
12	Jayesh Joshi	SE	Vinodottam Karandak – Funny One Act Play Competition -2015	29th Sept to 3rd Oct 2015	Bharat Theater, Sadashiv Peth, Pune	First Consolation Prize
13	Jagdish Potkule	BE	Vinodottam Karandak – Funny One Act Play Competition -2015	29th Sept to 3rd Oct 2015	Bharat Theater, Sadashiv Peth, Pune	First Consolation Prize
14	Jayesh Joshi	SE	Technoskit, Innovision 2016- A National Level Socio-Technical Symposium	11th& 12th March 2016	JSPM Group of Institutes Tathawade Campus	3rd Best Play
15	Sanket Khamkar	TE	Technoskit, Innovision 2016- A National Level Socio-Technical Symposium	11th& 12th March 2016	JSPM Group of Institutes Tathawade Campus	3rd Best Play
16	Suraj Kumar	TE	Social Activity on "Awareness on open source Software", 2016	Feb, 2016	New English School, Bijali Nagar	Trainer
17	Anup Dhole	TE	Social Activity on "Awareness on open source Software", 2016	Feb, 2016	New English School, Bijali Nagar	Trainer
18	Pranav Kanade	TE	Social Activity on "Awareness on open source Software", 2016	Feb, 2016	New English School, Bijali Nagar	Trainer
19	Prachi Chorghe	TE	Social Activity on "Awareness on open source Software", 2016	Feb, 2016	New English School, Bijali Nagar	Trainer
20	Meenakumari Pade	TE	Social Activity on "Awareness on open source Software", 2016	Feb, 2016	New English School, Bijali Nagar	Trainer
21	Aditya Tomar	SE	Table Tennis (Men's Single)	Jan, 2016	G. H. Raisoni College of Engineering, Wagholi	2nd Position
22	Aditya Tomar	SE	Table Tennis, Satej Karandak	4-6 Feb, 2016	DYPCOE, Akurdi, Pune	Organizer
23	Deepak Shinde	SE	Chess, Satej Karandak	4-6 Feb, 2016	DYPCOE, Akurdi,	Organizer

24	Suraj Kumar	TE	SEED IT IDOL	30th March 2016	SEED Infotech and SPPU Pune	Amongst top 10 Finalist in Final round
25	Suraj Kumar	TE	-	18th March 2016	Department of Computer Engg, DYPOCE, Akurdi	Certificate of Appreciation 2nd Position in TE Sem-I
26	Sheshank Ran	TE	E-Quiz, ESCTASY 2k16	5th -6th Feb 2016	ROTARACT CLUB, DYPCOE, Akurdi	3rd Position
27	Sheshank Ran	TE	Group Discussion, ESCTASY 2k16	5th -6th Feb 2016	ROTARACT CLUB, DYPCOE, Akurdi	1st Position
28	Vikas Kashyab	SE	Coding Competition	2015	Dept. of Computer Engg, DYPCOE, Pune	1st Position
29	Vikas Kashyab	SE	-	18th March 2016	Department of Computer Engg, DYPOCE, Akurdi	Certificate of Appreciation 5th Position in SE Sem-I
30	Vikas Kashyab	SE	Science Quiz Contest	17-9-2015 to 30-09 2015	HK Firodia Memorial Foundation	Certificate of Excellence
31	Suraj Kumar	TE	SEED IT IDOL	20th March 2016	SEED Infotech and SPPU Pune	Participation in First Round
32	Yash Manshani	TE	Expert Lecture on Personality Development	1st March 2016	Dept. of Computer Engg, Govt. Polytechnic, Arvi Dist, Wardha	Delivered Guest Lecture
33	Anup Dhole	TE	International Collegiate Programming Contest (ICPC) Second Round by ACM	-	Amrita University Amritapuri, Bengaluru, Coimbatore	Certificate of Achievement
34	Pranav Kanade	TE	International Collegiate Programming Contest (ICPC) Second Round by ACM	-	Amrita University Amritapuri, Bengaluru, Coimbatore	Certificate of Achievement
35	Chinmay Bodhe	TE	International Collegiate Programming Contest (ICPC) Second Round by ACM	-	Amrita University Amritapuri, Bengaluru, Coimbatore	Certificate of Achievement
36	Anup Dhole	TE	ACM ICPC Asia Amritapuri First	-	Amrita University Amritapuri,	Certificate of Achievement

			Round Online Programming Contest		Bengaluru, Coimbatore	
37	Pranav Kanade	TE	CM ICPC Asia Amritapuri First Round Online Programming Contest	-	Amrita University Amritapuri, Bengaluru, Coimbatore	Certificate of Achievement
38	Chinmay Bodhe	TE	CM ICPC Asia Amritapuri First Round Online Programming Contest	-	Amrita University Amritapuri, Bengaluru, Coimbatore	Certificate of Achievement
39	Osheen Kaul	SE	-	18th March 2016	Department of Computer Engg, DYPOCE, Akurdi	Certificate of Appreciation 2nd Position in TE Sem-I
40	Chaitanya Shejwal	SE	Table Tennis (Men's Single)		Gymkhana Office, DYPCOE	1st
41	Dinesh Chavan	BE	Kabbadi	7TH -9TH FEB 2016	DYP Sports Complex	2nd
42	Pritam Dalvi	BE				
43	Gajanan Hendage	TE				
44	Karan Dhivar	TE				
45	Saurabh Shinde	SE				
46	Shubham Kanshetti	SE				
47	Dipak Pawar	SE				
48	Divansh Tomar	SE				
49	Akash Rankhamb	SE				

24. List of eminent academicians and scientists/visitors to the department:

Sr.No	Name of Visitors	Organization Represented	Name of Event	Date of Visit
1	Kashinath V Kokil	ARDE,DRDO	Project Evaluation	15th Sept 2015
2	Arun Kadekodi	Soft-Corner Pvt. Ltd.	Technical talk on " How to Do Good Projects"	17th July 2015
3	Abhijat Vichare	Department of Technology	Research Awareness Session	9/08/2014

4	Anuradha Lakshminarayan	Persistent Pune	Workshop on "Functional Programming: New Perspectives"	9th July 2016
5	Rustom Modi	Persistent Pune	Workshop on "Functional Programming: New Perspectives	9th July 2016
6	Dr.Arundhati S.Warke	SIT, Symbiosis	Expert lecture of Mathematical Modeling	9th Sept 2015
7	Dr. Manish Godse	Infosys	How to write good research paper	9th March 2015
8	Mr. Shridhar Karandikar	Infosys	How to write good research paper	9th March 2015
9	Dr. B K Panigrahi	IIT Delhi	ICICA 2016	20-22nd Dec 2016
10	Dr. Swagatam Das	ISI Kolkatta	ICICA 2016	20-22nd Dec 2016
11	Dr. S S Das	SRM University	ICICA 2016	20-22nd Dec 2016
12	Dr. P N Sugantham	Nanyag Technological University Singapore	ICICA 2016	20-22nd Dec 2016
13	Dr. M Arun Bhaskar	Tshwane University of Technology, SA.	ICICA 2016	20-22nd Dec 2016
14	Lt. Gen. Dr. S P Kochhar	CEO, Telecom Sector Skill Council(TSSC)	ICICA 2016	20-22nd Dec 2016

25. Seminars/Conferences/Workshops organized &the source offunding:

I.   National:

Sr.No	Title of Seminar/Conference/ Workshop organized	Year	Source of Funding
1	FDP on Internet of Things	2016	Institute

II.   International:

Sr.No	Title of Seminar/Conference/ Workshop organized	Year	Source of Funding
1	ICICA 2016	2016	IRD India

26. Studentprofileprogramme/course wise

Name of the Course/Programme(refer question no. 4)	Application received	Selected	Enrolled		PassPercentage
			*M	*F	
UG Computer Engineering	As per DTE	124	88	36	89.51

PG Computer Engineering	As per DTE	18	00	18	83.33

*M=Male *F=Female

27. Diversity ofStudents

Name of the Course	%of students from the same state	% of students from other States	%of students from abroad
UG Computer Engineering	86.72	13.28	0
UG Computer Engineering	74.64	25.36	0
UG Computer Engineering	76.62	23.38	0

28. How many students have cleared national and state competitive examinationssuch as NET, SLET, GATE, Civil services, Defense services,etc.?:

Year	Examination	Appeared	Qualified
2015-16	GRE	2	2
	GATE	34	6
2014-15	GATE	4	4
2013-14	GRE	1	1

29. Student progression

Student Progression	Against Enrolled			
	2016-17	2015-16	2014-15	2013-14
UG toPG	11*	2	5	5
PG toM.Phil.	0	0	0	0
PG toPh.D.	02	1	1	0
Ph.D.to Post-Doctoral	0	0	0	0
Employed Campus selection Otherthancampus recruitment	61**	84	62	59
Entrepreneurship/Self-employment	0	0	01	0

*Number of student taken letter of recommendation for higher studies
**continuing

30. Details ofInfra structural facilities

a)Library:

b)InternetfacilitiesforStaff&Students:

c) Class roomswithICTfacility:

d) Laboratory:

Details ofLibrary facilities		
SN	Facility provided	Details
1	Digitallibrary	Not Applicable

2	Internet connectivity	48 MBPS for Internet and 5 MBPS for WiFi(extra)
3	Journals	Journals for Computer Engineering available in central libraryUG: 06, PG:05 E Journals are also available in Central Library
4	Magazines-Technical	NIL
5	MagazinesPersonality development	NIL
6	Industry-Institute Interaction	Books (Infosys Campus Connectprogram) : 30

Details of classroom&staffroomfacilities				
Room Description	**Usage**	**Shared / Exclusive**	**Capacity**	**RoomsEquippedwith PC, internet, bookrack,meeting space etc.**
Room No. 10	Class Room for SE	Exclusive	70	Room Equipped with:- 35 Benches, Table, Green Board, PCand LCD projector
Room No. 11	Class Room for TE Lectures	Exclusive	70	Room Equipped with:- 35 Benches, Table, Green Board, PC and LCD projector
Room No. 12	Class Room for BE Lectures	Exclusive	70	Room Equipped with:- 35 Benches, Table, Green Board, PC and LCD projector

Details of Laboratoryfacilities

SN	Curriculum Lab Description	Lab conducted in	Capacity , Space&Cost	Name of Technical Assistant
1	Data Structure Lab , Advanced Data Structure Lab	SWL-1A	25,66 Sqm, Rs. 2115320/-	Mr. H. P. Surana
2	Programming Lab - II, Programming Lab – IV	SWL-1B	15,66 Sqm, Rs. 1151231/-	Mr. H. P. Surana
3	Project Lab, Computer Graphics Lab.	SWL-1C	20, 66 Sqm, Rs. 2047435/-	Mrs. Mayuri Deokate

4	Computer Lab - I, Computer Lab – III	SWL-2 A	25,66 Sqm, Rs. 1306998.8/-	Mrs. S. M. Panse
5	Computer Lab -II, Computer Lab – IV	SWL-2 B	20,66 Sqm, Rs. 869741.6/-	Mrs. S. M. Panse
6	Programming Lab -I, Programming Lab - III	SWL-2C	21, 66 Sqm, Rs. 1576436.30/-	Mrs. S. M. Panse
7	Microprocessor Interfacing Lab	HWL	18,66 Sqm 751047	Mrs. B. C. Shinde
8	Digital Electronics Lab	HWL	18,66 Sqm 260092	Mrs. B. C. Shinde
9	PG Lab	SWL 2D	15, 66 sqm Rs1082763	Mrs. B. C. Shinde

31. Number of student's receiving financial assistance from college, university, Government orother agencies.

Year	Number of students receiving financial assistance
2015-16	192
2014-15	192

Table: Earn and Learn Scheme

Year	Number of students receiving financial assistance
2015-16	05
2014-15	05

32. Details on student enrichment programmes (special lectures/ workshops/ seminar) with external experts:

Table: Student enrichment programmes Academic Year: 2016-2017SEM-I

SN	Date	Event Type	Title of Program	Institution/ Organizatio n	Resource Person	UG/PG/ PHD
1	09/07/20 16	Worksho p	Boot Loader and Grub	Dept. of Computer Engg. DYPCOE, AK.	BE Students PranavKanade, HarshalThosare, Priyanka Shah, Suraj Kumar	60
2	09/07/20 16	Worksho p	Functional Programmi ng	Persistent Computing	Ms.AnuradhaLakshmi narayanan, Mr.RustomMody	76
3	23/07/20 16	Worksho p	Entrepren eurship Developme nt	Director, TechMainsta y Software Pvt. Ltd.	Mr.RahilShaikh	SE,TE,B E (150)

4	30/07/2016	Workshop	Advanced Java and Hadoop	TCS	Mr.Abhishek Mane	BE (40)
5	13/08/2016	Workshop	Android Application Development	Raykor Technologies Pvt. Ltd. Pune	Mr.AbhishekPriyadarshani	TE, ME (35)
6	27/08/2016	Workshop	TechFest, Python Express and ACMW	Software Engineer, Red Hat, Pune, Volunteers from Python Software Society of India	Ms.JanakiChhatbhar, Mr.Chandan Kumar, Mr. Ganesh Kadam, Mr. Suresh Narawade	SE, TE, BE (108 Girl Students)
7	21/09/2016	Workshop	Hadoop and Ecosystems	Greekers Inc. Software	Mr.ShaileshHule	TE-A, BE, ME-I (50)
8	25/06/2016	Guest Lecture	Career in IT Industry	Manager, Vodafone Shard Service India (VSSI), Pune	Mr. NileshBhandari	SE,TE,BE
9	22/07/2016	Guest Lecture	Internet of Things	Calsoft	Mr. Rajesh Kaushal	BE
10	23/07/2016	Guest Lecture	Current trends of MongoDB in IT Industry	CTSpace Technology Pvt. Ltd. Pune	Mr.AbhijeetBashetti	TE
11	14/09/2016	Guest Lecture	4G and 5G technology		Mrs.SadhanaGhalsasi	TE
12	16/09/2016	Guest Lecture	Operating System Internals and UEFI	Red Hat Linux Software Services Pvt. Ltd.	Mr.Yogesh Babar	TE
13	19/09/2016	Guest Lecture	Functional Programming	Independent Programmer and Consultant, ISSC, University of Pune.	Dr.AbhijitVichare	BE
14	24/09/20	Guest	Object	CybageSoft	Mr.RavindraChandrak	SE

	16	Lecture	Oriented Programming in C++	wraePvt. Ltd.	ar	
15	07/10/2016	Guest Lecture	Discrete Mathematics Applications	I2It, Hinjewadi, Pune	Mr.SandeepPatil	SE
16	28/07/2016	Industrial Visit		TCS, Hinjewadi		BE

Academic Year: 2016-2017
SEM-II

SN	Date	Event Type	Tital of Program	Institution / Organization	Resource Person	UG/PG/PHD
1	30/12/2016	Workshop	Personality Development (Stress Management, Awareness of Laws for girls, Self Defence)	Speaker, Manashakti Center, Advocate, Member, Rotract Club,	Dr.Sanjivkumar Patil, Adv. AbhishreeKulkarni (St), Mr.SaurabhKhotkar	SE, TE, BE, ME (136)
2	30/01/2017 to 01/02/2017	Workshop	Laptop Repairing Workshop	Trainer, Success Institute of Technology, Nigadi	Mr.Arun More	TE (41)

Academic Year: 2015-2016
Semester-I

SN	Date	Event Type	Title of Program	Institution/ Organization	Resource Person	UG/PG/PHD
1	26/09/2015	Workshop	Research Paper Writing	Principal Consultant, Infosys Technologies Ltd.	Dr. Manish Gode	BE, ME
2	15/09/2015	Guest Lecture	Key to Project Success	Scientist, DRDO, India	Mr. K. V. Kokil	BE
3	12/09/2015	Guest Lecture	Java	ATOS, Pune	Mr. VikasLonare	SE
4	09/09/2015	Expert Lecture	Mathematical Modeling	SIT, Pune.	Dr. Arundhati. S. Warke	BE, ME-I

5	07/09/2015	Guest Lecture	Advanced Computer Programming	PCCOE, Akurdi	Mr. ShaileshHule	BE
6	22/08/2015	Guest Lecture	BIGDATA &Hadoop	Hexanica	Mr. Saurabh R. Deshpande	TE
7	21/08/2015	Technical Talk	Cloud Computing	Calsoft	Mr. BipinKulkarni	BE
8	25/07/2015	Guest Lecture	Internet of Things	Infosense Consultancy Pune	Mrs. SadhanaGhalsasi	TE
9	25/07/2015	Guest Lecture	Basic concepts of MongoDB	CTSpace Technology Pune.	Mr. AbhijeetBashetti	TE
10	17/07/2015	Guest Lecture	How to do good Projects	Soft-Corner Company, Pune	Mr.ArunKadekodi	BE, ME
11	16/07/2015	Roadshow	Infosys Campus Connect Roadshow	Infosys	Mr. AnujJajoo	BE
12	11/07/2015	Guest Lecture	Computer Forensics & Cyber Applications	ARIZONA	Mr. SadikShaikh	TE
13	09/07/2015	Webinar	Fly High with an Exciting Career in Assurance	TCS	Mr. Kumarsan N.	BE

Academic Year: 2015-2016
Semester-II

SN	Date	Event Type	Title of Program	Institution/ Organization	Resource Person	UG/PG /PHD
1	04/03/2016	Guest Lecture	Cloud Computing	Head Development & Senior Technical Architect, Tatas	Mr.ShrikaantHemchandraSathe	TE, BE, ME Students
2	10/02/2016 to 11/02/2016	Workshop	Cloud Computing	CEO & MD, Knewron	Mr. AnandTamboli	Students of all branches
3	03/02/2016	Webinar	Fly High with an Exciting Career in Assurance	TCS	Mr. Kumarsan N.	TE,BE
4	29/01/2016	Guest Lecture	Career Options	Imperial Overseas Education Consultant, Pune	Mr. HirenRathod	TE, BE
5	28/01/2016	Webinar	Persuasive Games for Social Transformation	TCS	Dr. Ashok Maharaj	TE, BE

| 6 | 23/01/2016 | Guest Lecture | Agile Software Development Methodology | Vodafone Shared Services India (VSII), Pune | Mr.NileshBhanderi, Manager | TE |
| 7. | 29/01/2016 | Guest Lecture | Career Options | Imperial Overseas Education Consultant,Pune | HirenRathod | TE,BE |

Industry Institute Interaction Cell Monthly Report
Academic Year: 2014-15(UG and PG)

SN	Date	Title of Program	Institution/ Organization	Resource person	For (SE/TE/ BE)
1	31.01.2015	Email Communication	Harbinger, Pune	Mr. Satyabaji, Manager- Organization Development	BE & ME
2	06.02.2015	Internet of Things	Knewron Technologies	Mr. T.Anand, CSI member	BE & ME
3	19.03.2015	"Career Guidance" for Overseas Education related Opportunities	Imperial Overseas Education Consultant Pvt. Ltd	Mr. HirenRathod, Head of Business Development and Senior Counselor of Imperial Overseas Education Consultant Pvt. Ltd. Pune	TE
4	26.07.14	Completing Final Year Projects successfully and Bootstrap session on	Lumos, Pune.	Mr. Vishal Pai, Founder Lumos,Creating Independent Programmers,	BE students
5	03.09.14	opportunities in networking	SEED InfoTech, Pune	Ms. Maheshwari, Project Manager	TE students

33. Teachingmethodsadoptedtoimprovestudentlearning:

- Class Room Teaching
- NPTEL Videos
- Virtual Lab
- Self-Learning
- Practical machinery
- Using Guest Lectures, workshops, Seminars by Specialized Faculties.
- Green board method
- Mini Projects
- High Speed Internet, Models, charts etc
- Industrial visits
- Expert lectures

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

SN	Academic Year	Date and Day	Venue	Coordinators
1	2014-15	24/01/2015 Saturday	Nachiket Balagram	Ms.D.A.Phalke Mrs.V.L.Kolhe
2	2015-16	22/08/2015 Saturday	Chaphekar Orphanage	Ms.D.A.Chaudhari Mr.Vaibhav Gavali
3	2015-16	13/01/2016 Wednesday	New English School,Bijalinagar	Mrs.D.A.Phalke
4	2016-17	26/01/2017 Thursday	D-Mart Road Ravet	Ms.D.A.Chaudhari
5	2013-14	24-02-2014	New English School, Bijalinagar	Mrs.D.A.Phalke Ms. V V Potdar
6	2012-13	18-03-2013	S S G Gupta , Vidyalaya, Malavali	Mrs.D.A.Phalke

35. SWOC analysis of the department and Future plans
- STRENGTHS:
  - Motivated and efficient faculty maintaining staff studet ratio.
  - Well equipped labs as per university norms
  - Progreesing towards deployment of ICT based technology

- WEAKNESS:
  - MoUs with industries need to be enhanced
  - H index and i10 index of faculty need to be strengthn.
  - Open choice is not available.

OPPORTUNITIES:
- Interships, sponsored projects, participation in smart India drive.
- Opportunity for students and faculty to enhance industril exposure.
-

CHALLENGES:
- To meet global standards.
- To enhace employability skills

Evaluative Report of Information Technology

1) Name of the department:**Information Technology**
2) Yearof Establishment: 1999
3) Nameof Programmes/Coursesoffered : B.E.(UG)
4) Names of Interdisciplinary courses and the departments/units involved
   UG–

SN	Name of the Course	Branch
1	Engineering Mathematics III	FE
2	Communication Language Lab	Communication Skill Section

5) Annual/semester/choice based credit system(programme-wise):

SN	Name of the Course	Branch	Annual/Semester based credit system
1	UG-FE, SE	Information Technology	Semester based credit system
2	UG- TE, BE	Information Technology	Semester System

6) Participation of the department in the courses offered by other departments**:**

SN	Name of the Course	Subject	Semester	Other Department Name
1	UG-FE	FPL I	I	First Year
2	UG-FE	FPL II	II	First Year

7) Courses in collaboration with other universities, industries, foreign institutions, etc:

SN	Name of the Course	University/Industry/ Institution Name
1	Spoken Tutorial on C language	IIT
2	Spoken Tutorial on C++ language	IIT
3	Spoken Tutorial on Latex	IIT
4	NPTEL different Courses	IIT Bombay
5	Japanese Language Proficiency Test	TCS
6	Virtual Lab	COEP
7	Placement Training	Zensar Technologies
8	Campus Connect	Infosys
9	Project Training	Calsoft, Persistent
10	Soft Skill Training	Barclays

8) Details of courses/programmes discontinued (if any) with reasons: NIL

9) Number of teaching posts:

Post	Sanctioned	Filled
Professors	02	00
Associate Professors	04	00
Assistant Professors	18	24

10) Faculty profile with name, qualification, designation, specialization, (D.Sc. /D.Litt. /Ph.D./M. Phil.etc.,)

SN	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students Guided for the Last4 years
1.	Mr. A. J. Patankar	M.E.	HOD and Asst. Prof.	Cloud Computing, Networking, Image Processing	17	-
2.	Mr. M. A. Potey	M.E.	Asst. Prof.	Data Mining	20	-
3.	Mrs. A. S. Gaikwad	M.E.	Asst. Prof.	Digital Systems	16	-
4.	Mr. K. D. Bamane	M.E.	Asst. Prof.	Networking	11	-
5.	Mrs. A. A. Jajoo	M.E.	Asst. Prof.	Data Structures	13	-
6.	Mr. Bhushan M Nanche	M.E.	Asst. Prof.	Networking	9	-
7.	Ms. S. G. Kapse	M.E.	Asst. Prof.	Software Testing	4.7	-
8.	Mrs. SnehalSarangi	M. Tech	Asst. Prof.	Information Security	7.9	-
9.	Mrs. Geetanjali Sharma	M. Tech	Asst. Prof.	Data Structures	9.2	-
10.	Mrs. DishaSengupta	M. Tech	Asst. Prof.	Networking	7.5	-
11.	Ms. AshwiniAbhale	M.E.	Asst. Prof.	Adhoc Network	5.5	-
12.	Mrs. Vishnupriya G S	M.E.	Asst. Prof.	Networking	4.9	-
13.	Mrs.Swathi S.	M. Tech	Asst. Prof.	Image Processing	2.9	-
14.	Mr. AkarshKapasi	M. Tech	Asst. Prof.	Image Processing	2.3	-
15.	Mrs. ShradhaShelar	M.E.	Asst. Prof.	Information Network Security	3.4	-
16.	Mr. AshishSaxena	M. Tech	Asst. Prof.	Image Processing	7.7	-
17.	Mrs. Reetu Gupta	M. Tech	Asst. Prof.	Operating System	4.2	-
18.	Mr. Vinod Mane	M.E.	Asst. Prof.		1.2	-
19.	Mr. SantoshInchal	M. Tech	Asst. Prof.	Mobile Adhoc Networks	1.2	-

20.	Ms. SomayaDubey	M. Tech	Asst. Prof.	Network Security	6.8	-
21.	Ms. Vijeta	M. Tech	Asst. Prof.	Computer Organization	3.5	-
22.	Mrs. DeepaliRane	M.E.	Asst. Prof.	Web Technology	3.6	-
23.	Mr. NiketBhatambre	M.E.	Asst. Prof.	Wireless Sensor Networking	1.2	-
24.	Mrs. ParvatiBhadre	M.E.	Asst. Prof.	Network Security	4.6	-

11) List of senior visiting faculty:

SN	Name	Qualification	Designation	Specialization	No. of Years of Experience
1	Mr.MilindAnkleshwar	B.E. (E&TC)	Adjunct Faculty	Data Structure & Files	15
2	Mr.VaibhavLaddha	MSc	Adjunct Faculty	Project Discussion	10.5
3	Mr.Rajiv Sharma	MS (e-Commerce)	Adjunct Faculty	Machine Learning	15

12) Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: 20 %

13) Student-Teacher Ratio (Programme wise)

Sl. No	Name of the Course	Total Student	Total Faculty	Student – Teacher Ratio
1.	BE Information Technology	419	27	15:1

14) Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Academic support staff	Sanctioned	Filled
Technical :	07	07
Administrative	04	04

15) Qualifications of teaching faculty with DSc/D.Litt/Ph.D/MPhil/ PG.

SN	No. ofteaching faculty withPh.D.	No. ofteachingfaculty with M.Tech.	No. ofteaching faculty withB.E.	TotalNo. of faculty
1	NIL	24	-	24

16) Numberoffacultywithongoingprojectsfrom
a) Nationalfunding agencies and grants received: NIL

b) International funding agencies and grants received:
NIL

17) Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. andtotal grants received: **BCUD GRANT: 01**

Name of the Person Received Grant	Year	Funding Body	Title of Grant	Total Grant
Mr. K.D Bamane Mrs. Arati S .Gaikwad	2014-2016	Board of College & University Development	A framework for Troubleshooting of IP Based Ticket Booking using UID.	90,000/-

18) Research Centre/facility recognized by the University: NIL

19) **Publicatrions:**

a) Publication per Faculty: **03 per faculty**

*Number of papers published in peer reviewed journals (national /international) by faculty and students: International Peer Review Journal

Faculty:

a) National Journal : NIL

b) International Journal : 70 (last 3 years)

Students:

a) National Journal: NIL

b) International Journal: 26 (last 3 years)

*Number of publications listed in International Database (For Eg: Web of Science, Scopus, and Humanities International Complete, Dare DatabaseSciences Directory, EBSCO host, etc.):

Scopus: 01

∗Monographs: NIL

∗ Chapter in Books: NIL

∗ Books Edited: NIL

∗Books with ISBN/ISSN numbers with details of publishers: 07

- TechMax Publications
- Nirali Publications

∗ Citation Index: 0-37

∗ SNIP: NIL

∗ SJR: NIL

∗ Impact factor: 0.86-6.57

∗ h-index: 0-3

20) Areas of consultancy and income generated: NIL

21) Faculty as members in

a) National committees: NIL

b) International Committees: NIL

c) Editorial Boards: 02

22) Student projects

a) Percentage of students who have done in-house projects including inter departmental/programme: 90%

b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies: 10%

S. No	Academic year	No. of projects	No. of sponsored projects	% of student project
1	2016-17	34	3	8.80%
2	2015-16	41	4	9.75%

23) Awards/Recognitions received byfaculty and students: TableII and III

Year 2014-15			
SN	NameoftheFaculty	Event Name/Details	Position Secured
1	Mr. A.J Patankar Ms Swati Kapse	cPGCON 2014-15	Best Paper Award

Table: Department level student's achievements

Year 2016-17			
SN	NameoftheStudents	Event Name/Details	Position Secured
1	Ankush Bhandarkar Ayush Vipul Kartikey Rajvaidya	Developed Trantrotsav website for Technical event	Appreciation

Year 2015-16			
SN	Nameofthe Students	Event Name/Details	Position Secured
1	Sayali Ahire, Rupali Bagal,Pranali Khose and Varsha Salunke	presented paper in National Conference on Advances in Computing and Management (NCACM) 2016	Winner
2	Subham Upadhyay, Karan Kashid, Rajeev ranjan Upadhay, Siddharth Joshi	presented paper in National Conference on Advances in Computing and Management (NCACM) 2016	Winner
3	Ankita Tiwari, Varsha Gughe, YogeshTonape, Manish Kawale	presented paper in National Conference on Advances in Computing and Management (NCACM) 2016	Runner up
4	Pooja Yadgire, Suraj Mundada, Krutika Mulange	presented paper in National Conference on Advances in Computing and Management (NCACM) 2016	Runner up

5	Pratik Sanap	App Struct in Vihaan 2016 at "ITRIX 2K16" held in Department of ComputerEngineering,	1st Position
6	Nilesh Gutte , Vijay Baligeri, Laxman Dombale and Aditya Karamapuri	"Academic Excellence Certificates" on developing Staff Attendance Tracking system for library.	Appreciation
7	Karishma Zambre	Awarded and recognized by Guinness World Record for participating and making World Record in Largest Bharatnatyam	Appreciation

Year 2014-15			
SN	Nameofthe Students	Event Name/Details	Position Secured
1	Nitin Singh	TCS Fit for Life Marathon 2015	2nd
2	Ganesh Rasker	software for Library management i.e. DYPLIBG.0	Appreciation
3	Harshad Velapure, Saurabh Rai, Saransh Sharma, Preetam Naiknavre, Pranali Jadhav	National Conference NCRTIT-2015	1st Prize
4	Nisha Pande, Deepali Kochale, MayuriShete, Pralobh Lokhande	National Conference NCRTIT-2015	1st Prize
5	SnehaKishorKhandare	completed Diploma in Cyber Law	Appreciation
6	Jayendra Singh Patel	International GO-Kart Championship 2014 also awarded with best design, best build quality and autocross awards	Winner

Table: Achievement of studentsin TECHNICAL EVENTS organized by other institutes

Sr.No	Name of Student	Year	Event Description	Prize	Name of Institute
1	Pratik Sanap	2015-16	App Struct in Vihaan 2016 at "ITRIX 2K16" held in Department of ComputerEngineering, DYPIEMR, Akurdi.	1st	DYPIEMR, Akurdi.

24) List of eminent academicians and scientists/visitors to the department:

S N	Names of Visitors	Organization Represented	Name of Event	Date of Visit
1	Dr. A.G. Nagarkar	Senior Scientist, DST, Pune	Seminar on Patent Technology and Patentization	26th April 2016
2	Mr. Arun More	Success Institute of Technology, Nigdi	Laptop Repairing Workshop	28th and 29th Dec 2015
3	Mr. Amit Sonawane	Asst. Prof., Dept. of IT, MIT Alandi	Expert Lecture on "R" Machine Learning tool	15th September 2015
4.	Mr. Amol Ahir,	Senior Associate at Kasnet Technologies.	"Opportunities in IT industry and soft skills	13th August 2016.
5.	Mr. Saurabh Rawat , Manager Training and Placement Mr .Sudhanshu Bhat Lead Trainer	I-Medita	"Networking and Future Perspective Career in Networking "	3th January 2017,
6.	Ms. Ramita Mitra Project Manager	Accenture Pvt. Ltd.	Career Awareness Programme	27th January 2017
7.	Mr. Varun Nair Mr. Malla Reddy D	Snapdeal	Seminar on Cyber Security and Forensics	7th & 18th February 2017.
8.	Mr. Ashish Duggar, Software Developer	3DPLM, Pune.	Trends in Big data ,Cloud Computing and Software Modelling	27th August 2016
9	Mr. Mahesh Pavaskar, Solution Engineer	GSLAB, Pune	One day workshop on "Open Source Database MongoDB"	22nd August 2015
10	Mr. Sharad Sanap, Software Developer	NVDIA Graphics	Seminar on Data Structures	12th July 2014

25) Seminars/Conferences/Workshops organized &the source of funding:
   a) Seminar& Guest Lectures:

Seminar &Guest Lecture	Academic Year	Source of Funding
Abroad Higher Studies Opportunities	2014-15	College
How to face Technical Interviews		College

Guest lecture on data structures		College
Guest lecture on Ethical Hacking		College
Expert Lecture on "Machine Learning"	2015-16	College
Expert Lecture on "Career & Placement Development Guidance**"**		College
Seminar on Software Modeling & Design		College
Expert Lecture on "R Machine Learning Tool"		College
Laptop Repairing Workshop for SE & TE students		College
Trends in Big Data, Cloud Computing and Software Modeling	2016-17	College
A seminar on "Recent IT trends"		College
"Understanding Machine Learning Building Recommender System with machine learning and azure embracing ML in IOT solution		College

b) **Workshops**

Workshops	Academic Year	Source of Funding
PC Assembly Workshop	2014-15	____
Two day workshop on "Emerging Trends in Data Structure"	2015-16	College
One day workshop on "Open Source Database MongoDB"		College
Laptop Repairing Workshop for SE & TE students		SavitriBaiPhule Pune University
CUDA Workshop		College
PC Assembly Workshop		-------
PC Assembly Workshop	2016-17	-----
Two day workshop on "Recent Trends and Career Opportunities in Cyber Forensics /security		College
One day workshop on AngularJS		___
One day workshop on"Networking and Future Perspective Career in Networking" was held on 13th January 2017, Friday for		____
Workshop on "Advanced C++"		____

Faculty Development Program on "Foundation of Communication and Computer Network "(SE 2015		SavitriBaiPhulePune University
Mobile Repairing workshop under Student welfare Scheme in collaboration with SavitriBaiPhule Pune University		SavitriBaiPhule Pune University
App Development workshop under Student welfare Scheme in collaboration with SavitriBaiPhule Pune University		SavitriBaiPhule Pune University

c) **Conference :**

Title of Conference organized	Year	Source of Funding
National Conference on Inter Disciplinary Research on recent Trends in Information Technology and Computer Engineering	2014-15	College

26. Student profile programme/course wise:

*M=Male *F=Female

Course	Class	Total No.of Students	Male Students	Female Students	Pass Percentage (%)
UG	SE	160	84	76	33.75
UG	TE	123	64	59	40.32
UG	BE	136	72	64	75.55

27. Diversity of Students

Name of the Course	%of students from the same state	%ofstudents fromother States	%of students from abroad
UG	96.67	3.33	NIL

28. How many students have cleared national and state competitive examinations such asNET, SLET, GATE, Civil services, Defense services, etc.?

GATE : 10
CAT : 03
GRE : 03
UPSC : 01

29. Student progression

Student Progression	Against Enrolled
UG to PG	18 ((last 3 years)
PG to M.Phil.	Nil
PG to Ph.D.	Nil
Ph.D.to Post-Doctoral	Nil
Employed Campus selection Other than campus recruitment	Campus selection : 162 (last 3 years) Other than campus recruitment : 70 (last 3 years)

Entrepreneurship/Self-employment	4 (last 3 years)

30. Details of Infrastructural facilities:
   a) Library: Yes
   b) Internet facilities for Staff &Students: Yes
   c) Classrooms with ICT facility: Yes
   d) Laboratory: Yes

Details ofLibrary facilities

SN	Facility provided	Details
1	Departmental library	• Total Number of Books: 191 • Total Number of Journals: 20 • Total Number of magazines: 54 • Total Number of CD's: 25

Details of classroom &staff room facilities

Room Description	Usage	Shared / Exclusive ?	Capacity	Rooms Equipped with PC, internet, bookrack, meeting space etc.
Class Room 1	Lectures, Seminars	Exclusive	80	Projector, CPU
Class Room 2	Lectures, Seminars	Exclusive	80	Projector, CPU
Class Room 9	Lectures, Seminars	Exclusive	80	Projector, CPU

Details of Laboratory facilities

SN	Curriculum Lab Description	Lab conducted in	Space, capacity &Cost	Name of Technical Assistant	Name of Attainder
1	TE: Operating System, DBMS BE: SL- VI	FPL- I	60sqm 9,24,687/-	Mr. Manoj Verma	Mr. J. B. Mohite
2	SE : Computer Graphics Lab, OOPS	FPL-II	60sqm 6,94,190/-	Mr. M. V. Lanjekar	Mr. J. B. Mohite
3	SE: DSFL, FDS BE: SL-V	FPL-III	60sqm 16,44,835/-	Mr. Manoj Verma	Mr. J. B. Mohite
4	TE: SL-II BE: SL-V, SL-III	ISL	120sqm 23,34,522/-	Mrs. Shalaka Gurav	Mr. J. B. Mohite
5	SE: PAI Lab, DELL Lab	Hardware Lab	60sqm 14,74,819/-	Mr. N. N . Naikwadi	Mr. J. B. Mohite

6	BE: SL-VI, SL- IV TE: SL-I	Network Lab	60sqm., 10,24,988/-	Mr. N. N . Naikwadi	Mr. J. B. Mohite

31. Number ofstudents receiving financial assistance from college, university, Government or other agencies:

EBC Schoolarship

Academic Year	Number of Students Received Financial Assistance
2015-16	218
2014-15	194
2013-14	NIL

32. Details on student enrichment programmes (special lectures/workshops/seminar) with external experts:

Year 2016-17

SN	Title of Program	Institution/ Organization	Resource Person	Date	UG/PG/PhD
1	Mobile Repairing Workshop in collaboration with Board of Student Welfare,SPPU	Director, Success Institute of Technology	Mr. Arun More	14th and 15th March 2017	UG
2	App Development Workshop in collaboration with Board of Student Welfare,SPPU	Director, Mass Technologies Pvt Limited	Mr. MilindAnkleshwar	27th and 28th February 2017	UG
3	One day Workshop on Sexual Harassment of Women at Workspace (Prevention,Prohibition,Redressal) Act 2013	Chairperson,Local Complaint Committee for Pune District Under Sexual Harrsament Act	Mrs. SadhanaKhati	27th February 2017	U.G
4	Guest Lecture on Industry Expectation from Graduates during Campus recruitments	HR, NTT Data	Mr. Sanjay Khorate	17th March 2017	U.G
5	Workshop on Recent trends and Career opportunities in cyber forensics and security"	Cyber Expert, Snapdeal	Mr. Varun Nair	17th and 18th February 2017	U.G
6	PC Assembly workshop	-	-	21st and 22nd January 2017	U.G
7	One day workshop on AngularJS	Assistant Professor, Dept. of Information Technology	Mrs. AmitaJAjoo, Mrs. Reetu Gupta	24/12/2016	UG

		DYPCOE, Ak			
8	Expert lecture on "Latest trends in OOPS"	Developer at Mu Sigma	Mr. Abhishek Mishra	30/07/2016	UG
9	One day workshop on"Networking and Future Perspective Career in Networking " was held on 13th January 2017,Friday for IT and Computer students.	1. Mr. SaurabhRawat , Manager Training and Placement I-Medita 2. Mr .SudhanshuBhat Lead Trainer I-Medita	1.Mr.Saurabh Rawat 2.Mr . SudhanshuBhat	13/01/2017	UG
10	Workshop on "Advanced C++"	Assistant Professor, Dept. of Information Technology DYPCOE, Ak	Mr. AshishSaxena	28/03/2016	UG
11	"Understanding Machine Learning Building Recommender System with machine learning and azure embracing ML in IOT solution	Alumni DYPCOE, Ak	Mr. Ganesh Raskar	24/09/2016	UG
12	Two day workshop on "Emerging Trends in Data Structure"	Senior Software Engineer Mass Technology	Mr. NishantNanaware	10/08/2016 – 11/08/2016	UG
13	One day workshop on " Basics of C programming Languages"	Assistant Professor, Dept. of Information Technology DYPCOE, Ak	Mrs. AmitaJajoo, Ms. AshwiniAbhale	11/07/2016	UG

Year 2015-16

SN	Title of Program	Institution/ Organization	Resource Person	Date	UG/PG/Ph D
1	Expert Lecture on "Machine Learning"	Asst. Prof. At Sinhgad School of Engineering	Mr. Wasudeo Rahane	08/08/2015	UG
2	Expert Lecture on "Career & Placement Development Guidance".	Academic Program Manager, Bentley Systems , Pune	Mr. Ashish R. Dubey	08/08/2015	UG
3	Seminar on Software Modeling & Design	Seminar on Software Modeling & Design	Mr. Rajeev Sharma,	12/09/2015	UG
4	Laptop Repairing Workshop for SE & TE students	Chairman at professional educational society Pune,	Mr. Arun More	28/12/2015-29/12/2015	UG

Year 2014-15

SN	Title of Program	Institution/ Organization	Resource Person	Date	UG/PG/PhD
1	Arranged guest lecture on 'Abroad Higher Studies Opportunities	Global Opportunities	Mr.Rahul Kambale	23/08/2014	UG
2	Arranged guest lecture on 'How to face Technical Interviews	Cisco	Mr.Jitendra Sangar	08/09/2014	UG
3	Arranged guest lecture on Ethical Hacking	CISCO	Mr. Satish Sonawane	12/07/2014	UG

33. Teaching methods adopted to improve student learning
Video demonstration, Technical Quiz, Group Discussion, Virtual Lab, NPTEL Video Lectures, Chalk and Talk, Mini Projects.

34. Participationin Institutional Social Responsibility (ISR) and Extension activities:

SN	Department	Name of Activity	Date	Venue	Name of Coordinators	No. of Participants
1	Information Technology	Social Activity on Humanity	30 Sep 2017	Prerna Bhavan	Mrs. Amita Jajoo Mrs. Suman Kumari, Mrs. Vishnupriya G S and Mrs. Somya Dubey	40
2.	Information Technology	PC and Internet awareness, and Importance of Education	17th july 2015	Sangise Near Kamshet Dist. Pune	Mrs. Amita Jajoo and Mr. K.D. Bamane	40

35. SWOC analysis of the department and Future plans
- Strengths
    o Highly Proficient and Well qualified Faculties.
    o All faculty of Department are members of various professional societies
    o Department has given better placement with good package to the students till date
    o Conducts number of value added courses for the knowledge and skills up gradation of the students
    o MoUs
        Zensar Technologies
        EMC Alliance
- Weaknesses
    o Research Center
    o Choice based open elective
- Opportunities

Industrial Tie-Up

Students and Faculties getting more opportunities in research and consultancy area including higher qualification.

- Challenges
  - o Develop agricultural based and rural based projects as these projects may benefit to society.
  - o To start research center for pursuing PhD.

Evaluative Report of Mechanical Department

1. Name of the department: **Mechanical Engineering Department**
2. Year of Establishment: 1984.
3. Namesof Programmes/Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.): B.E., M.Tech. and Ph.D
   1) B.E. (Mechanical) I Shift: 1984
   2) B.E. (Mechanical) II Shift: 2012
   3) M.E. Mechanical (Design Engineering): 2005
   4) M.E.Mechanical (Heat Power): 2013
4. NamesofInterdisciplinarycoursesandthedepartments/units involved UG& PG

SN	Name of the Course	Branch
1	Engineering Mathematics-III	FE
2	Electrical & Electronics Engineering	Electrical Section and E&TC Department
3	Soft Skills	English Department
4	Mechanical Measurement & Control	Instrumentation Department

5. Annual/semester/choice based credit system (programme-wise):

SN	Name of the Course	Branch	Annual/Semester based credit system
1	BE	Mechanical	Semester pattern Credit system introduce from FE 2015(Implemented uptil SE)
2	Master in Mechanical Engineering	Design/Heat Power.	Credit based system

6. Participation of the department in the courses offered by other departments**:**

SN	Name of the Course	Subject	Semester	Other Department Name
1	FE	Basic Mechanical Engineering	II	E&TC, IT, Civil ,Computer, Production, Instrumentation
2	FE	Engineering Graphics II	II	E&TC, IT, Civil ,Computer, Production, Instrumentation
3.	FE	Engineering Graphics I	I	E&TC, IT, Civil ,Computer, Production, Instrumentation

7. Courses in collaboration without the universities, industries, foreign institutions, etc: **Nil**

8. Details of courses/programmes discontinued (ifany) withreasons: NIL

9. Number of teaching posts:

Post	Sanctioned	Filled
Professor	06	01
Associate Professor	11	04
Assistant Professor	33	45

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D./M. Phil.etc.,)

SN	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students Guidedforthe Last4 years
1	Dr. D R. Panchagade (HOD)	Ph.D	Asso.Prof	Design	9Y 7M	Nil
2	Mr. S. R. Deodas	M.E.	Asst. Prof	Heat Power	33Y 6M	Nil
3	Dr. T Dey	Ph.D	Asso.Prof	Heat Power	9Y 3M	Nil
4	Mr. A. K. Battu	M.E.	Asst.Prof	Design	5Y 11M	Nil
5	Mrs S K Dhamale	M.E.	Asst.Prof	Design	12 Y 11 M	Nil
6	Mr. S L Pachpute	M.E.	Asst.Prof	Heat Power	13Y7M	Nil
7	Mr. N. R. Pawar	M.E.	Asst.Prof	Heat Power	16Y6M	Nil
8	Mr. S. K. Bawage	M.Tech.	Asst.Prof	CAD-CAM	5Y 5M	Nil
9	Mr. S. V. Ghogardare	M.E.	Asst.Prof	Automobile	9Y4M	Nil
10	Mr. R. S. Lahane	M.Tech.	Asst.Prof	CAD-CAM	5Y 4M	Nil
11	Mr. S. D. Marjapure	M.Tech.	Asst.Prof	Heat Power	3Y	Nil
12	Mr. S. D. Bhosale	M.E.	Asst.Prof	Automobile	7Y5M	Nil
13	Mr. M D. Joshi	M.Tech.	Asst.Prof	Metallurgy	2Y 6M	Nil
14	Mr. R. P. Patil	M.Tech.	Asst.Prof	Design	3 Y 1 M	Nil
15	Mr. Sunil Patil	M.E.	Asst.Prof	Design	2 Y 1 M	Nil
16	Mr. V VPhule	M.Tech.	Asst.Prof	Production	3Y 5M	Nil

17	Mr. D M Mule	M.Tech.	Asst.Prof	Metallurgy	2Y 1M	Nil
18	Mr. A K Pathak	M.E.	Asst.Prof	CAD-CAM	10 Y 7 M	Nil
19	Ms. M V Mane	M.E.	Asst.Prof	Design	1.6 Y	Nil
20	Mr. S SPatil (Sol)	M.Tech.	Asst.Prof	CAD-CAM	2 Y 6 M	Nil
21	Mr. L P Khose	M.Tech.	Asst.Prof	Automobile	2 Y 8M	Nil
22	Mr. S SPatil (Kol)	M.Tech.	Asst.Prof	IC Engine	1 Y 6 M	Nil
23	Mr. N K Birajdar	M.E.	Asst.Prof	Heat Power	4Y 7M	Nil
24	Mr. R S Ralebhat	M.E.	Asst.Prof	Heat Power	13Y 6M	Nil
25	Mr. S V Thakur	M.E.	Asst.Prof	Thermal	1Y6M	Nil
26	Mr. A Hudage	M.Tech.	Asst.Prof	Design	2Y 6M	Nil
27	Ms. N H Bhingare	M.Tech.	Asst.Prof	Metallurgy	1Y 5M	Nil
28	Mr. D K Sharma	M.Tech.	Asst.Prof	Thermal	4Y 6M	Nil
29	Mr. S M Desai	M.Tech.	Asst.Prof	Manufacturing	2Y 6M	Nil
30	Mr. P A Shevale	M.Tech.	Asst.Prof	Industrial Engg.	0Y 4M	Nil
31	Mr. Deepak Patil	M.E.	Asst.Prof	Heat Power	0	Nil
32	Mrs. JyotsnaRane	M.E.	Asst.Prof	CAD-CAM	13 Y	Nil
33	Mr. SwapnilTaware	M.E.	Asst.Prof	Design	4Y 6M	Nil
34	Mr. RachitRoshan	M.Tech.	Asst.Prof	Thermal	0	Nil
35	Dr. P. T. Nitnaware (Dean Second Shift)	Ph.D.	Asso.Prof	Heat Power	20Y	Nil
36	Mr. V W Bembrekar	M.E.	Asst.Prof	CAD-CAM	7Y1M	Nil
37	Mr. V VDiware	M.E.	Asst.Prof	Design	6Y	Nil
38	Mr. A R Chaple	M.Tech.	Asst.Prof	CAD-CAM	4 Y 5 M	Nil
39	Mr. V. Kulkarni	M.Tech.	Asst.Prof	Design	3Y3 M	Nil
40	Mr. S. W. Musane	M.Tech.	Asst.Prof	Design	3Y 5M	Nil

11. List of senior visiting faculty:

SN	Name	Qualification	Designation	Specialization	No. of Years of Experience
1	Dr. Kalyana Sundaram	PhD	Adjunct Faculty	Mechanical	30
2	Mr. Ramdas Triambak Lawande	ME	Adjunct Faculty	Mechanical	32
3	Mr. Darshan Vijay Wale	ME	Adjunct Faculty	Mechanical	11
4	Mr. Vidynanad Shivaji Galphade	M.Tech	Adjunct Faculty	Metallurgy	13
5	Mr. Nachiket Umesh Phadke	BE	Adjunct Faculty	Mechanical	12
6	Mr. Pushpashil Mahipatrao Salunke	BE	Adjunct Faculty	Mechanical	10
7	Mr. Prashant Adhikrao Chavan	BE	Adjunct Faculty	Mechanical	12
8	Mr. Anirban Giri	M.Tech	Adjunct Faculty	Mechanical	10
9	Mr. Narendra Gadwal	M.Tech	Adjunct Faculty	Mechanical	11
10	Dr. S. N. Joshi	PhD	Adjunct Faculty	Mechanical	20

12. Percentage of lectures delivered and practical classes handled (programme-wise) by temporary faculty: 20 %

13. Student-Teacher Ratio (programme-wise)

Sl. No	Name of the Course	Total Student	Total Faculty	Student – Teacher Ratio
1.	B.E.(Mechanical)	796	44	18:1
2	M.E. Mechanical (Design)	32	03	11:1
3.	M.E. Mechanical (Heat Power)	13	03	5:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Number of academic support staff	Sanctioned	Filled
Technical Staff	7	7
Administrative Staff	11	11

15. Qualifications of teaching faculty with DSc/D.Litt/Ph.D/MPhil/ PG.

SN	No. of teaching faculty with Ph.D.	No. of teaching faculty with M.Tech.	No. of teaching faculty with B.E.	Total No. of faculty

1	05	42	3	50

16. Number of faculty with on going projects from
a) National   b) International funding agencies andgrantsreceived: **Nil**
17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc.
   andtotal grants received:

Sr. No	Name of the Person Received Grant	Year	Funding Body	Title of Grant	Total Grant
1.	Dr.P.T.Nitnaware	2013-2015	BCUD SPPU	An Investigation on SI engine using Hydrogen and CNG blends	Rs.1,70,000/-

18. ResearchCentre/facilityrecognizedbytheUniversity: Nil
19. Publications:
    *a) Publication per faculty: 4
*Number of papers published in peer reviewed journals (national
/international) by faculty and students:
National – Nil, International– 50
*Number of publications listed in International Database (For Eg: Web of
Science, Scopus, Humanities International Complete, DareDatabase
Sciences Directory, EBSCO host, etc.): 5
∗ Monographs: 01
∗ Chapter in Books: 01
∗ Books Edited: Nil
∗ Books with ISBN/ISSN numbers with details of publishers: Nil
∗ Citation Index: 1-629 Scopus
∗ SNIP: Nil
∗ SJR: Nil
∗ Impact factor: Range 0.5-6.3
∗ h-index: H index Range 0-11
20. Areas ofconsultancyand income generated: Nil
21. Faculty asmembers in
    a) Nationalcommittees: 01
    b) International Committees: 02
    c) EditorialBoards: Nil
22. Student projects
    a) Percentageof students who have done in-house projects
       including inter departmental/programme:

2015-2016	2014-2015	2013-2014
58%	52%	66%

   b) Percentage of students placed for projects in organizations
      outside the institution i.e.in Research laboratories /Industry/
      otheragencies:

2015-2016	2014-2015	2013-2014
42 %	48 %	44 %

23. Awards/Recognitionsreceivedbyfacultyandstudents: TableII and III

Department level student's achievements

	Year 2016-17		
SN	**Name of the Students**	**Event Name/Details**	**Position secured**
1.	Mechanical Sports Team	General Sports Championship 2016-17'	General Championship

	Year 2015-16		
S.No.	**Nameofthe Students**	**Event Name/Details**	**Position Secured**
1	Miss. Nidhi Nair	Best Outgoing Student	Best Outgoing
2.	Mr.Kaustubh Shaligram Mr.Swojas Billurkar	Bharat Karandak (State Level)	3rd Prize
3.	Ms.Soniya Basale	National Level cummins India Scholarship	-
4	Santosh Bahatte and AkashTomar	Inter-Collegiate Table Tennis Tournament	2nd Prize
5	Mr.Deepak Patil& Mr.Suraj Yadav	Awarded Research Internship with scholarship in IITBombay	-
6.	Mechanical Sports Team	General Sports Championship 2015-16'	General Championship

	Year 2014-15		
S.No.	**NameoftheStudents**	**Event Name/Details**	**PositionSecured**
1.	Mechanical Sports Team	General Sports Championship 2014-15	General Championship

Achievement of studentsinTECHNICAL EVENTS organizedbyotherinstitutes

Sr.No	Name of Student	Year	Event Description	Prize	Name of Institute
1	BAJA Team- Team predators	2017	BAJA SAE car racing event	4th out of 419 teams3rd in Acceleration	BAJA SAE India
2	BAJA Team- Team predator's	2017	Enduro Student India Competition,	3rd Rank, Best Acceleration	SaumyaKanti Bose

			Coimbatore, India	Award	
3	Supra Team-Metal Falkons	2016	SUPRA-International GoKart Competition	1st Rank with Prize money Rs. 30000/-	Nirman Go-Kart
4	YogeshGunjal	2016	State LevelHuman Chess in INSPERIA	1st Rank	
5.	Mr.PrasadAgawan	2016	IC Racing	2nd Prize	IIT Hydrabad
			Quark16 –A Cosmic Odyssey	2nd Prize	Bits Pilani
			TechKriti fest RC Racing	2nd Prize	IIT Kanpur
6	Shubham More	2016	ROBORACE	1st	IIT Bombay
7	Ms. AnuradhaKedare Mr. AbhijeetMarekar	2015	Inventor Student Design Competition	4th Prize	NIT Surat

25. List of eminent academicians and scientists /visitors to the department:

SN	Names ofVisitors	Organization Represented	Nameof Event	DateofVisit
01	Mr.D.Deshmukh	Sinhgad, COE	Workshop on Finite Element Analysis using Ansys&Matlab	20/1/2016
02	SAE Faculty	SAE BAJA India	Work shop on BAJA All Terrain Vehicle Workshop	22/8/2016-23/8/2016
03	Mr.VighneshPatil	EDS Technologies	Introduction and Applications of Abaqus	03/05/2015
04	MetalWings Pvt. Ltd	MetalWings Pvt. Ltd	Bike Assembly & Disassembly	20/3/2015

25.   Seminars/Conferences/Workshops organized &the source offunding:

   a. National**:** 03

Sr.No	Title of Seminar/Conference/ Workshop organized	Year	Source of Funding

1	Recent Trends in Heat Exchangers	2013-2014	Institute Sponsored
2	FDP on advanced trends in engineering and education	June 2016	Institute Sponsored
3	FDP on modernization in mechanical engineering education	Dec-2016	Self-Sponsored

b. International:Nil

26. Student profile programme/course-wise:

*M=Male *F=Female

Name of the Course	Academic Year	Application received	Selected	Enrolled		Pass Percentage
				*M	*F	
UG (Shift I)	2015-16			110	17	93.65
UG (Shift II)	2015-16	As per DTE		55	1	88.88
PG(Design)	2015-16			12	0	78.57
PG(Heat Power)	2015-16			11	1	63.64

27. Diversity of Students:

SN	Name of the Course	%of students from the same state	% of students from other States	%of students from abroad
1	BE (Mechanical I shift)	73	27	00
2	BE (Mechanical II shift)	94	6	00
3	ME (Design)	89	1	00
4	ME (Design)	100	0	00

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

GATE	Civil Services	Defence Services	GRE	IELTS	TOFEL	CAT
33	-	-	9	-	-	-

29. Student progression:

Student Progression	Against Enrolled		
	2013-2014	2014-2015	2015-2016
UG toPG	24	13	-
PG toM.Phil.	-	-	-
PG toPh.D.	-	-	-
Ph.D.to Post-Doctoral	-	-	-
Employed Campus selection Otherthancampus recruitment	45	56	106
Entrepreneurship/Self-employment	-	2	3

30.	Details ofInfra structural facilities:
   a) Library: Departmental Library: Area: 66 sqm
      - No. of Reference books: 751
      - No. of text books: 20
      - No. of Journals: 92
      - No. of IS codes: -
   b) InternetfacilitiesforStaff&Students: Available
      a. Internet facility for all staff through LAN cable.
      b. 4mbps Wi-Fi facilities available for all students for laptop.
   c) Class roomswithICTfacility: Computer laboratories are provided with internet facility. The classrooms are spacious and equipped with LCD projectors, Audio visual aids.
   d) Laboratory: 11 No.

Details ofLibrary facilities		
SN	Facility provided	Details
1	Digitallibrary	Virtual Lab, Enrollment for SWAYAM , NPTEL, National Digital Library enrollment,DELNET.
2	Internet connectivity	Internet facility for all staff & students through LAN cable.
3	Journals	507 e Journals (Can access through Department)
4	Magazines-Technical	Nil
5	MagazinesPersonality development	Nil

6	Industry-Institute Interaction	Faculties have visited various industriesand tried to identify gaps between SPPU curriculum and on field practices. MOU done with 8 Companies

Details of classroom&staffroomfacilities

Room Description	Usage	Shared / Exclusive ?	Capacity	RoomsEquippedwith PC, internet, bookrack,meeting space etc.
Class rooms (3,4,23)	Teaching & Learning	Exclusive	66 m^2	Equipped with Projector& computer
Class rooms (5,22)	Teaching & Learning	Shared	66 m^2	Equipped with Projector &computer
Faculty Rooms (06)	Faculty Seating Position	Exclusive	5m^2	Equipped with PC ,cupboards and internet Facility

Details of Laboratoryfacilities

SN	Curriculum Lab Description	Lab conductedin	Space, Capacity&Cost		Nameof Technical Assistant	Nameof Attainder
1	SE (TH,ATH),FE (BME), BE (RAC)	Thermal Engineering Lab.(I+II+III+IV)	358	46,66,606/-	Mr.S.K.Desai	Mr.J.K.Ulde
2	TE (TM, IFP),SE (FM),	Fluid Power Lab	200	16,43,033/-	Mr.H. J. Mirgane	Mr.J.K.Ulde
3	SE(TOM),TE(TOM)	Theory of Machine	90	6,01,488/-	Mr. R. S. Bhadekar	Mr.B.D.Gaikwad
4	BE (DOM)	Dynamics of Machinery	66	16,31,588/-	Mr. R. S. Bhadekar	Mr.B.D.Gaikwad
5	SE (Metallurgy)	Metallurgy Lab	66	11,43,155/-	Mr.M. N. Sutar	Mrs.MangalKhilare
6	TE (Mechatronics)	Mechatronics Lab	66	11,63,079/-	Mr. J. P. Sutar	Mrs.MangalKhilare
7	TE(HT)	Heat Transfer Lab	66	3,26,001/-	Mr.B. B. Zore	Mrs.SushilaManjule
8	SE(CAMD),TE(NMO),BE(CCA/FEA)	CAD/CAM Lab	200	74,56,351/-	Mr.B. B. Zore	Mrs.SushilaManjule
9	FE(EG I &II)	Engineering Graphics	90	9,07,628/-	Mr.B. R. Kumbhar	Mrs.MeenakshiTokale

10	Lab Practice I &II	P.G. Laboratories (Heat Power)	93.91	22,57,265/-	Mr.B. R. Kumbhar	Mrs.MeenakshiTokale
11	Lab Practice I &II	P.G. Laboratories (Design)	93.91	32,19,602/-	Mr.G. Sutar	Mr.J.D.Ulde

31. Number of students receiving financial assistane from college, university, Government orother agencies:

2014-15: 252

2015-16: 28

32. Details onstudent enrichment programmes
(speciallectures/workshops/seminar) with external experts:

Student enrichment programmes

	Year 2016-17				
SN	**Title of Program**	**Institution/ Organization**	**Resource Person**	**Date**	**UG/PG/PhD**
1	Guest Lecture on Hydraulics and Pneumatics	MechEnggDept	Mr. Kishor Arora	26/07/2016	UG
2	Guest Lecture on Energy Efficiency in Thermal Utilities	MechEnggDept	Dr. Vishal Sardeshpande	29/07/2016	UG
3	Guest Lecture on Corrosion and its Prevention	MechEnggDept	Dr. S.T. Vagge	10/8/2016	UG
4	Guest Lecture on How to start Business and Govt. Schems	MechEnggDept	Mr. M.U. Tikhe	19/08/2016	UG
5	Guest Lecture on Opportunities for Engg. Students at South Australia University	MechEnggDept	Prof. Ian Clarck	22/09/2016	UG

	Year 2015-16				
SN	**Title of Program**	**Institution/ Organization**	**Resource Person**	**Date**	**UG/PG /PhD**
1	Guest Lecture on Opportunities with ETON India	Mech Dept	Mr. Saumi Das	26/06/2015	UG
2	Guest Lecture on Composite Structures	Mech Dept	Dr. S. K. Panigrahi	3/7/2015	UG
3	Guest Lecture on Nanotechnology	Mech Dept	Dr.R.K.Goyal	8/7/2015	UG
4	Guest Lecture on Operational Excellence & its attributes towards sustainable growth	Mech Dept	MrD.K.Pathak	23/07/2015	UG
5	Guest Lecture on Dynamics of Machinery	Mech Dept	Dr.R.B.Ingle	6/8/2015	UG
6	Guest Lecture on Role of Mechanical Engineers in an organization, Business of Pre-Engineered Steel Buildings-Manufacturing Process, Road Safety, Q &A	Mech Dept	Mr. ManthaVishwanath	29/12/2015	UG

7	Guest Lecture on An approach to learning Machine Design through project based Learning	Mech Dept	Mr. L.V.Awadhani	23/01/2016	UG
8	Guest Lecture on Applications of Numerical Methods in Design Industry	Mech Dept	Mr. AshutoshKhaire	1/2/2016	UG
9	Guest Lecture on Qualitycircle forum	Mech Dept	Dr.SanjayShridharLakade	23/02/2016	UG
10	Guest Lecture on Opportunities with ETON India	Mech Dept	Mr. Saumi Das	26/06/2015	UG
11	Guest Lecture on Composite Structures	Mech Dept	Dr. S. K. Panigrahi	3/7/2015	UG
12	Guest Lecture on Nanotechnology	Mech Dept	Dr.R.K.Goyal	8/7/2015	UG

	Year 2014-15				
SN	**Title of Program**	**Institution/ Organization**	**Resource Person**	**Date**	**UG/PG/ PhD**
1	knowledge of Application Specialist in Industry	Mech. Engg Dept	Mr. Vignesh Naidu	12&13 June2016	UG
2.	OpenGL Programming	Mech. Engg Dept	Mr.S.S.Pingale	14/8/14	UG
3.	Free certification course of Dassult system	Mech. Engg Dept	Mr. HuzefaSalim	27/12/14	UG
4.	Awareness Programme regarding Value Added Courses like CATIA, ANSYS..etc	Mech. Engg Dept	Mr. VikramJadhav	30/12/14	UG

33.   Teaching methods adopted to improve student learning:

Faculty development programs are organized at the beginning of every semester for in house as well as outside faculties also which inculcate technical knowledge as well as teaching skills in faculties Unit wise notes, Standard lab manual are prepared right at the beginning of semester. This activity helps the faculty members of the same subject to maintain uniformity across various classes.

1. Assignments are given to students based on each unit.

2. Power point presentation and NPTEL resource materials are used by Faculty for delivery of subject matters.

4. Industrial visits are organized.

5. Guest lectures of eminent personalities from academic institute as well as Industries are organized to enhance the student's knowledge.

6. Most of students do internship in industries to bridge the gap between theory and practical.

7. Pedagogical activities like quiz, model making, visits are conducted to enhance student learning.

8. Technical exhibition, poster competition etc. are organized which involved blending of theory and practical

9. Students are motivated to work on R& D, Patents and publications.

10.To improve softskills of students College level English Language Laboratory is available.

11. To improve Aptitude skills of students& ultimately to enhance their employability APART and SEED trainings are provided to students which is held by external agencies.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:
- Organized Blood Donation camp.
- Participated in NSS activity like Tree Plantation.
- Help to underprivileged children (NachiketBalgram)

35. SWOC analysis of the departmentand Future plans

Strengths:-
- Well qualified faculty
- Well-equipped laboratories
- Our students won prizes in National Level Technical Events such as BAJA, SUPRA, etc.
- Strong Industry Institute Interaction
- Good placement of students.
- Excellent interaction with Alumni

Weakness:-
- Need to improve on consultancy work
- Choice based curriculum

Opportunity:-
- To become Centre of Excellence in major areas of Mechanical Engineering.
- Implementation of object based education at par with Tier-I institutions.

Challenges:
- Preparing employable engineers to face the challenges (Present and future).
- Academic Autonomy

Future Plans:-
- Collaboration with reputed institutes like NITs and IITs for faculty and student development.
- More PG course in CAD/CAM, Mechatronics etc
- Research Center

Evaluative Report of E&TC Department

1. Name of the department**:** Electronics & Telecommunication Engineering
2. Yearof Establishment: 2001

   UG in Electronics   -   1984

   UG in Electronics & Telecommunication   -   2001

   PG in E&TC (VLSI & Embedded System)   -   2012

   PG in E&TC (Communication Network)   -   2013

   PhD Research Center in E&TC   -   2016
3. Namesof Programmes/Coursesoffered:

   UG:-   Electronics & Telecommunication Engineering.

   PG: -   1) VLSI & Embedded systems

               2) Communication Network

PhD: -   Research Center in E&TC

4. Names of Inter disciplinary courses and the departments / units involved UG–

SN	Name of the Course	Branch
1.	Engineering Mathematics –III	Engineering Science
2.	Electronics and Electrical Engineering	Mechanical Engineering
3.	Electrical Circuits and Machines	Electrical Section

5. Annual/semester/choice based credit system(programme wise):

SN	Name of the Course	Branch	Annual/Semester based credit system
1.	UG	E&TC	Semester based credit system
2.	PG (VLSI & Embeddded System)	E&TC	Semester based credit system
3.	PG (Communication Network)	E&TC	Semester based credit system
4.	PhD Research Center	E&TC	Semester based credit system

6. Participationofthedepartmentinthecoursesofferedbyotherdepartments**:**

SN	Name of the Course	Subject	Semester	Other Department Name
1.	UG	Basic Electronics Engineering	I & II	FE Engineering Science
2.	UG	Electronics and Electrical Engineering	IV	SE Mechanical Engineering

7. Courses in collaboration with other universities, industries, foreign institutions, etc:

SN	Name of the Course	University/Industry/ Institution Name
1.	Japanese Language Proficiency Test	Tata Consultancy Services

8. Details of courses/programmes discontinued (if any) with reasons:

SN	Name of the Course / Programmes	Year of Discontinuation	Reason for Discontinuation
1.	UG in Electronics	2002	Electronics branch was not suitable for communication and IT industry hence opted for change of branch

9. Number of teaching posts:

Post	Sanctioned	Filled
Professor	05	02
Associate Professor	10	01
Assistant Professor	19	29

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D./M. Phil.etc.,)

Sr. No.	Name of Faculty	Qualification	Designation	Specilization	Experi ence	No. of PhD Students guided in last 4 yrs
	Dr. Mrs. P. Malathi	Ph.D	Professor	E&TC	22.5	02
	Dr. D.G. Khairnar	Ph.D	Professor	E&TC	22	0
	Dr. Manish Sharma	Ph.D	Asso. Profssor	E&TC	11	0
	Mr. S. G. Patil	B.E	Asst. Professor	Electronics	34.5	0
	Mrs. K. M. Jadhav	B.E.	Asst. Professor	Electronics	27	0
	Mrs. M. M. Karad	B.E.	Asst. Professor	Electronics	25	0
	Mrs. Aparna Shinde	ME	Asst. Professor	Electronics	17	0
	Ms. Usha Jadhav	M.E	Asst. Professor	E&TC	12	0
	Mrs. Padma Lohiya	M.E.	Asst. Professor	Microwave Engg	13	0
	Mrs. T. R. Wagh	M.E.	Asst. Professor	Dig. Sys	12	0

	Mrs. S. N. Mane	M.E.	Asst. Professor	E&TC	11	0
	Mrs. M. R. Rajput	M.E	Asst. Professor	Dig. Sys	10.5	0
	Mrs. V. M.Lakshe (Bagal)	M.E	Asst. Professor	E&TC	8.5	0
	Mrs. Rohini Gaikar	M.E.	Asst. Professor	VLSI & ES	10.5	0
	Mrs. Snehal Gaikwad	M.E.	Asst. Professor	E&TC	9.5	0
	Mr. Yogesh Shirke	M.E	Asst. Professor	comm. Network	5.5	0
	Mrs. Aditi Chaudhuri	M.E.	Asst. Professor	ELEX	8	0
	Mrs. Rutuja Deshmukh	M.E. Ph.D. pursuing	Asst. Professor	VLSI	4.5	0
	Mr. Thamodara Jegan	M.E.	Asst. Professor	VLSI	10	0
	Mrs. Shruti Pandey	ME	Asst. Professor	VLSI & ES	5.5	0
	Mrs. Revathi T. K.	M.E.	Asst. Professor	comm. Sys	5.5	0
	Ms. Shweta Mahalle	M.Tech.	Asst. Professor	E&TC	3	0
	Mr. Prabhu Reddy	M.Tech.	Asst. Professor	Digital Comm.	5.5	0
	Mr. Sagar Bhavsar	M.Tech.	Asst. Professor	Digital Comm.	8	0
	Mrs. Aswini Deshmukh	M.Tech.	Asst. Professor	Digital Sys. & Comp. Electronics	6.5	0
	Mr Prashant Titare	M.Tech	Asst. Professor	VLSI	2	0
	Mrs. Supriya Narwade	M.E Ph.D. pursuing	Asst. Professor	Electronics	8.5	0
	Mrs. Prajakta Sadgir	M.E Ph.D. pursuing	Asst. Professor	Electronics	2	0
	Mr. Raosaheb P. Pawar	M.E.	Asst. Professor	Control Sys	2	0
	Mrs. Lina Desai	M.E	Asst. Professor	Signal Processing	7	0
	Mr. Kishor Bhangale	M.E.	Asst. Professor	VLSI & ES	5.5	0

	Ms. Swati Jadhav	M.E.	Asst. Professor	VLSI & ES	1	0

11. List of senior visiting faculty:

SN	Name of Faculty	Qualification	Designation	Specialization	No. of Years of Experience
1	Mr. Sanjay Parameshwarprasad Mishra	B.E (E & TC)	Vice President of COTMAC Electronics Pvt Ltd.	E & TC	28 Yrs
2	Dr. Virendra Kumar Verma	MSC(ELX) Ph.D	Joint Director(Retd.) ARDE, Pune	Electronics	35 Yrs
3	Mr. Avinash Sawant	ME (Electronics)	System Consultant	Embedded System	12 Yrs

12. Percentageoflecturesdeliveredandpracticalclasseshandled (programmewise) by temporary faculty: 20 %

13. Student-Teacher Ratio (programme-wise)

Sl. No	Name of the Course	Total Student	Total Faculty	Student – Teacher Ratio
1.	UG (E&TC)	432	29	15:1
2.	PG (VLSI & Embedded System)	22	3	8:1
3.	PG (Communication Network)	09	3	3:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Number of academic support staff	Sanctioned	Filled
Support staff (Technical)	05	05
AdministrativeStaff	05	05

15. Qualifications of teaching faculty with DSc/D.Litt/ Ph.D/MPhil/ PG.

SN	No. of teaching faculty withPh.D.	No. of teachingfaculty with M.Tech.	No. of teaching faculty with B.E.	Total No. of faculty
1.	03	29	Nil	32

16. Number of faculty with on going 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:

Sr.No	Name of the Person Received Grant	Year	Funding Body	Title of Grant	Total Grant
1.	Dr. Mrs. P. Malathi	2013-14 to 2015-16	BCUD	Quality of Service enhancement in routing for Mobile ad-hoc network based on bandwidth estimation.	2,00,000
2.	Mrs. Padma Lohiya	2013-14 to 2015-16	BCUD	Analysis and performance evaluation of evolutionary algorithms for random impulse noise removal of Color Image	1,55,000
3.	Mrs. R Arokia Priya	2013-14 to 2015-16	BCUD	Analysis of Depth Estimation techniques for Stereo vision images	2,20,000
4.	Mrs. Trupti Wagh	2013-14 to 2015-16	BCUD	Dual Band triangular 'U' slot Microstrip Antenna for WLAN application	2,20,000
5.	Mr. S. G. Patil	2009-2011	BCUD	Fragmentation And Improved Image Recovery System Using Greedy Algorithms.	2,00,000
6.	Mrs. A. V. Patil	Jan,2008	UOP	Design & development of a system for segmentation and classification of magnetic resonance images of brain containing tumor.	1,50,000
7.	Mrs. P. Malathi	2005	ISRO	Frequency allocation in mobile communication using genetic algorithm.	2,50,000
8.	Mrs. R Arokia Priya	Jan,2008	UOP	Image Compression using redundant and non redundant wavelet transform.	1,00,000
9.	Mrs. A. V. Patil	2007	UOP	Development of a system for segmentation and classification of	1,50,000

				MIR images of brain.	

18. Research Centre/facilityrecognizedbytheUniversity:

Yes, the department of E&TC is a recognized as research centre in the year of 2016. Letter no. CA/421 w.e.f. 02/03/2016

19. Publications:

*Number of papers published in peer reviewed journals (national / international) by faculty and students: 130

*Number of publications listed in International Database (For Eg: Web of Science, Scopus, and Humanities International Complete, Dare Database Sciences Directory, EBSCO host, etc.):01

∗ Monographs:Nil

∗ Chapter in Books: 03

∗ Books Edited: Nil

∗ Books with ISBN/ISSN numbers with details of publishers:

- Mrs. P. Malathi, Signals and Systems, Author 1. Sagar Paddhan, Author 2. Dr. Mrs. P. Malathi, Central Techno Publication, Dennett & Co. Division Nagpur, ISBN. 978 81 89178 857
- D.G. Khairnar, An Optimal RBF Neural Network for Signal Detection in Non-Gaussian Noise, *Lecture Notes In Computer Science 3776, PP. 306-309,* Spinger-Verley, Germany, 2005; (PREMI, ISI, Kolkota, Dec.2005).
- D.G. Khairnar, Moving Target Indicator Using Back-propagation Neural Network, *In Proceedings of International e- Conference On Computer Science (IeCCS-2006),* Athens, Greece, July 2006. Proceedings will be published by published by VPS/Brill in the lecture series on Computer and Computational Sciences.

∗ Citation Index:

∗ SNIP: Nil

∗ SJR: Nil

∗ Impact factor: 6.577

∗ h-index: Nil

20.Areas ofconsultancyand income generated:

Revenue generated through various workshops organized by department.

21. Faculty asmembers in
  - a) Nationalcommittees:
    - IETE:The Institution of Electronics and Telecommunication Engineers
    - ISTE:The Indian Society for Technical Education
    - IET: The institution of Engineering and Technology
    - IAENG: International Association of Engineers
  - b) International Committee:
    IEEE: Institute of Electrical and Electronics Engineers
  - c)Editorial Boards: NIL

SN	Name of Faculty	Member in National Committe	Member in International Committe	Editorial Board
1	Dr. Mrs. P. Malathi	IETE, ISTE	IEEE	-
2	Dr. D.G. Khairnar	IET	IEEE	-
3	Mr.Shrishail.G .Patil	ISTE	-	-
4	Mrs. K.M.Jadhav	ISTE	-	-
5	Mrs. Karad M. M.	ISTE	-	-
6	Mrs.Aparna S.Shinde	ISTE,IETE	-	-
7	Ms. Usha A. Jadhav	ISTE	-	-
8	Mrs. Manisha R. Rajput	ISTE	-	-
9	Mrs. Trupti.R.Wagh	ISTE	-	-
10	Mrs. Sayali N. Mane	ISTE	-	-
11	Mrs. V. M. Lakshe(Bagal)	ISTE	-	-
12	Mrs. Rohini P. Gaikar	ISTE	-	-
13	Mr. Sagar Bhavsar	IAENG	-	-

22.   Student projects
   a) Percentage of students who have done in-house projects
      including inter departmental/programme:

SN	Academic Year	No. of In-House Projects	Percentage of students who have done in-house projects
1	2013-14	39	76.47%
2	2014-15	41	75.92%
3	2015-16	47	85.45%
4	2016-17	37	77.08%

   b) Percentage of students placed for projects in organizations
      outside the institution i.e.in Research laboratories / Industry/
      other agencies:

Sr.No	Academic Year	No. of Projects in Collaboration	Percentage of projects done in Collaboration
1	2013-14	12	23.52%
2	2014-15	13	24.07%
3	2015-16	08	14.54%
4	2016-17	11	22.91%

23.   Awards/Recognitionsreceivedbyfacultyandstudents:

Department level faculty achievements

SN	Name of Faculty	Award /Recognition details
1.	Dr. Mrs. P. Malathi	National Mahila Rattan Gold Medal Award 2015-16 in the field of Education by Indian Solidarity Council.
2.	Dr. Mrs. P. Malathi	Bharat Vidya Shiromani Award" 2015-16 in the field of Education by International Institute of Education & Management.
3.	Dr. Mrs. P. Malathi	Recognition of Leadership 2016-17 by Skyfi Labs for the successful completion of on line based project.
4.	Mrs. Usha Jadhav	Recognition of Leadership 2016-17 by Skyfi Labs for the successful completion of on line based project.
5.	Dr. Mrs. P. Malathi, Dr. D.G. Khairnar and Dr. Manish Sharma	Filed a Patent on "Design of Parallel Asynchronous Self Timed Adder"
6	Mrs. Rutuja Deshmukh	Filed patent on "An Alteration in Turbo Encoder and its interleaver for optimal transmission of high dimensional data" ,on 18 th Nov,2016.
7	Mr. S. G. Patil	Participated and successfully completed Airtel Hyderabad (Half Marathon) on 28 th Aug, 2016

Department level student's achievements

SN	Nameofthe Students	Event Name/Details	Position Secured
		Year 2016-17	
1.	Chinta Sai sneha C.d.n prasad	Jackpot at DYPCOE	2nd prize in Jackpot
2	Mundhe Shubham Sadashiv	ElectroEureka at DYPCOE	2nd prize ElectroEureka
3	Mundhe Shubham Sadashiv	Jackpot at DYPCOE	2nd prize Jackpot
4	Kawatkar Rushikant Gajanan	ElectroEureka at DYPCOE	2nd prize ElectroEureka
5	Pathak Mrudula B.	Virtual Circuit Mania at DYPCOE	3rd prize for Virtual Circuit Mania
6	Kulkarni Kaustubh Ravindra	ElectroEureka at DYPCOE	2nd prize ElectroEureka
7	Kadam Mayur Dattatray	Jackpot at DYPCOE	2nd prize in Jackpot
8	Kadam Mayur Dattatray	ElectroEureka at DYPCOE	2nd prize in ElectroEureka
9	Dilwale Chaitali Harishchandra	Jackpot at DYPCOE	2nd prize in Jackpot

10	Harshal Suryawanshi	NIEM intercollege Dance Competiton	Runner up Trophy + Rs 5000/-
11	Saurabh Naware	Firodiya Karandak , 2K17 state level competition	First Prize for culture
12	Ashlesha Nemane	Firodiya Karandak , 2K17 state level competition	Second Prize for dance

Year 2015-16			
SN	**Nameofthe Students**	**Event Name/Details**	**Position Secured**
1	Vishal Kharche	C Programming	Merit
2	Ankit Garai	Robothryst	Merit
3	Bhavik Vikhariya	Quiz	Winner
4	Yogesh Hegde	Robothryst	Merit
5	Sachin Dhumal	Sanskrit Play reading at Sakal	Second Prize
6	Rohan Mehta	Holleyball at DYPCOE	Second Prize
7	Debadyuti De	BadmintonSingle at DYPCOE , Leap Academy, ISBM	Winner
8	Debadyuti De	Badminton Doubles at DYPCOE, ISBM	Winner
9	Debadyuti De	Badminton Doubles at Akola	3rd

Year 2014-15			
SN	**Nameofthe Students**	**Event Name/Details**	**Position Secured**
1	Debadyuti De	Badminton at MIT	Best Player
2	Debadyuti De	Badminton at MIT	Best Smasher

24. List of eminent academicians and scientists/visitors to the department:

SN	Names ofVisitors	Organization Represented	Nameof Event	Dateof Visit
1.	Dr. R.K. Shevgaonkar	Director, IIT Delhi	NCETACT-15	9th, 10th Jan 2015
2.	Mr.Rajan Shringarpure	M.D., Vishay India	NCETACT-15	9th, 10th Jan 2015
3.	Prof. S.K. Khedkar	Chairman, ETE, Member, G.C. IETE, New Delhi	NCETACT-15	9th, 10th Jan 2015

4.	Prof. Raj Kamal	Ex. VC & Prof of Comp. Sci, Elex and IT, Devi Ahilya Univ., Indore and Prof. IT & Director, MIST, Indore	NCETACT-15	9th, 10th Jan 2015
5.	Dr. D.S. Bormane	Chairman, BoS, S.P.P.U., Pune	FOW on ECM	9th, 10th Jan 2015
6.	Dr D. M. Chandwadkar	BoS Member, S.P.P.U., Pune	FOW on ECM	9th, 10th Jan 2015
7.	Dr. S. D. Shirbhadurkar	BoS Member, S.P.P.U., Pune	FOW on IC	15th to 17th Dec 2016
8.	Dr. S. N. Merchant	Professor, Department of Electrical Engineering IIT Bombay, Powai Mumbai	Expert lecture on "Research Methodology"	Jan 2015
9.	Dr. D.N. Malkhede	Professor and HoD, Mechanical department COEP, Pune	Seminar on "Mathematical Modeling"	Sept. 2015
10.	Dr. Sandeep Musale	Professor, PVG's COET, Pune	FOW on IC	15th to 17th Dec 2016
11.	Dr. Bharat Chaudhari	Professor, MIT Pune	NCETACT-15	9th, 10th Jan 2015
12.	Dr. Y. Ravindra	Principal, PICT Pune	NCETACT-15	9th, 10th Jan 2015
13.	Mr. Abhay Bakshi	IT Consultant, Pune	Carrier guidance for BE students	14th Sept 2016
14.	Prof. A. B. Patki	Professor Emeritus E&TC, COEP Pune. Former Senior Director/Scientist G and HoD MEITY Govt. of India New Delhi	Guest/Expert lecture on "Fuzzy Inference Engine"	16th March 2017
15.	Dr. Virendra Kumar Verma	Joint Director(Retd), ARDE, Pune	Guest Lecture on "Armament Electronics- Challenges	22nd March 2017

25. Seminars/Conferences/Workshops organized & the source of funding:
Seminars Conducted:

SN		Title of Seminar	Date	Resource person	Source of Funding
	1	Job & business opportunities for E&TC students	13/07/16	Mr. Shailesh Deshpande, Ralson India Ltd.	Self Sponsored
	2	Need of Electronics in Industry	11/07/16	Mr.Sanjay Chaudhari, Director, Electronics study centre, Pune.	Self Sponsored
	3	Mathematical Modeling	28/09/15	Dr. Dilip Malkhede, Professor, COE Pune.	Self Sponsored

National Conference:

Sr.No	Title of Seminar/Conference/ Workshop organized	Year	Source of Funding
1	National Conference on Emerging Techniques in Advanced Comm. Techniques-15 (NCETACT-15)	2015-16	DYPCOE, Akurdi, Pune with GATE Forum, Technofield, MPTA Education, YE, SEED, Tirupati Enterprises, Coreel Technologies

Workshops Organized:

SN	Title of Workshop	Date	Resource Person	Designation and Company name of Resource Person	Source of Funding
1	Introduction to Electrical & Electronic Component	One day 27/08/2016	Mr. Vivek Aranke,	Assistant professor, VIIT, Pune	Self Sponsored
2	Faculty orientation workshop on SE (E&Tc/ELX) Revised Syllabus 2016 Course under the aegis of BoS , SPPU on Integrated Circuits	Three Days !5th Dec 2016 to 17th Dec 2016	Dr. S. D. Shirbhadurkar, Mr. Suryawanshi	Member of BOS, SPPU	SPPU Pune
3	Faculty orientation workshop on SE (E&Tc/ELX) Revised Syllabus 2016 Course under the aegis of BoS , SPPU on Electrical circuits and Machines	9th and 10th Jan 2015	Dr D. M. Chandwadkar, Mr. Aranke , Mr. Suryawanshi Mr. D A Bhagwat	Member of BOS, SPPU	SPPU Pune
4	PCB Design	Two Days 24/09/2016 to 25/09/2016	Mr. Yogesh Bhole	Robocart e-cell IIT Bombay	Self Sponsored

5	System Design using Xilix Tool	Three Days 6/10/2016 to 8/09/2016	Mr. Binay Chandra, Ms. Tahera Tabassum	BitMatrix Pvt Ltd., Pune	Self Sponsored
6	Wireless Technology	Two day 21/09/15- 22/09/15	Mr. Ranjeet Kumar	MD, Nutan Infotronics)	Self Sponsored
7	Robotics & Embedded C	Two day 08/01/16- 09/01/16	Mr. Ravindra Singh	Technical Manager, Robosapians Tech. P. L, New Delhi.	Self Sponsored
8	Mentor Graphics and Xilinx vivado	Two days 16/07/14- 17/07/14	Mayur Deshmukh,	Product Executive, Corel Technology, Pune	Self Sponsored
9	PLC Automation	One Day 26/7/2014	Mr. Kishor Patil & team,	Yantra harvest automation School, Pune	Self Sponsored
10	Global Positioning System	One Day 09/08/14	Dr. Srinivas R. Jog	Immediate past Chairman, IETE, Pune.	Self Sponsored
11	Modelling & Simulation Tool: COMSOL	One Day 10/04/2015	Mr. Bikash Ghose,	Scientist-E, Dy. Director HEMRL, Defence R & D organization Pune.	Self Sponsored
12	CUDA Workshop	Three Days 21/4/2015- 23/4/15	• Mr. Kaustubh Hiwarekar, • Mr. Sandip Ganage, • Mr. Sumit Harale	• Assistant Prof, Dept of IT, CUDA teaching center, SCOE, pune. • HPC Engg, Sun Pharma advanced Research co, Mumbai • Assistant Prof, Dept of Comp, ICEM, Pune	Self Sponsored
13	Matlab & Toolboxes	One Day 25/1/2014	Mr. Amaya Metangale,	Asst. Manager, ADCC Infocad Pvt. Ltd. Pune	Self Sponsored

26.   Studentprofileprogramme/coursewise:
*M=Male *F=Female

Academic Year	Applications received	Selected	Enrolled		Pass Percentage
			M	**F**	
2013-14(UG)	As the admission process is governed by DTE. The rules and regulations of DTE are followed in the admission process.	148	116	42	95.65
2014-15(UG)		149	144	41	90.78
2015-16(UG)		157	102	55	76.41
2016-17(PG) (VLSI)	Only non zero positive GATE score is valid to take admission for ME	22	05	17	77.80
2016-17(PG) (CN)		09	02	07	87.50

27. Diversity ofStudents

SN	Name of the Course	%of students from the same state	% of students from other States	%of students from abroad
1	E&TC Engineering /UG	77.50%	22.50%	Nil
2	E&TC Engineering /PG (VLSI)	95.45%	4.54%	Nil
3	E&TC Engineering /PG (CN)	100%	00%	Nil

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?:

GATE	Civil services	Defense	GRE	IELTS	TOEFL	CAT
20	2	1	19	-	-	16

29. Student progression

Student progression	Against % enrolled		
	2013-14	2014-15	2015-16
UG to PG	10	12	03*
PG to M.Phil.	NIL	NIL	NIL
PG to Ph.D.	NIL	NIL	NIL
Ph.D. to Post-Doctoral	NIL	NIL	NIL
Employed • Campus selection • Other than Campus Recruitment	49 30	65 23	71 47
Entrepreneurship/Self-	02	03	02

employment			
Government Sector	NIL	NIL	NIL

30. Details ofInfra structural facilities: YES

a) Library:

SN	Particulars	Total No.
1.	Books for UG	6185
2.	Books for ME -VLSI & Embedded systems	212
3.	Books for ME -Communication Networks	111
4.	E-Books	166
5.	National Journals (Print)	16
6.	E-Journals/ International Journals	1144

b) Internet facilities for Staff & Students: All laboratories have a facility of wired LAN with speed of 48 Mbps and Wi-Fi with high speed 4 Mbps line.

c) Class roomswithICTfacility:

Details of classroom&staffroomfacilities

Room Description	Usage	Shared / Exclusive	Capacity	RoomsEquippedwith PC, internet, bookrack,meeting space etc.
7,8	8Hrs/Day	Exclusive	80	LCD Projector, PC, Internet
5	4 Hrs/Day	Sharing	80	LCD Projector, PC, Internet
6	4 Hr/Day	Sharing	80	LCD Projector, PC, Internet
PG Class room and Tutorial room	8Hrs/Day	Exclusive	40	LCD Projector, PC, Internet

d) Laboratory:

Details of Laboratoryfacilities

SN	Curriculum Lab Description	Lab conductedin	Space, Capacity in terms of no. of students	Lab cost
	UG Laboratories			
1	Communication System Lab	AWP, DSP	90 sq m, 40	28,97,463/-
2	Electronics Design Lab	ESED	100 sq m, 40	8,12,538/-

3	Electronic Circuit Lab	ECD, IC	90 sq m, 40	23,14,704/-
4	Microwave and measurement Lab	MC, BCS	67sq m, 40	23,03,159/-
5	Project Lab	SPOS, MP&S	67sq m, 40	9,78,476/-
6	Power Lab	PE, EP	67sq m, 40	26,10,903/-
7	Basic Electronics Lab	BEE	100 sq m, 40	8,07,040/-
8	Software Lab	ITCT, OOP	175sq m, 60	46,12,661/-
UG Total				**1,73,36,944/-**
PG Laboratories				
1	E & T C -Communication Network -PG	LP-I & II	67.5sq.m., 20	20,43,047/-
2	E & T C -VLSI & Embedded System -PG	LP-I & II	67.5sq.m.,20	18,58,881/-
PG Total				**39,01,928/-**
UG+PG Total				**2,12,38,872**

31. Number of student's receivingfinancialassistancefromcollege, university, Government orother agencies:

SN	Type of Financial Assistance from Governtment	No. of students getting benefits of Assistants			
		2016-17	2015-16	2014-15	2013-14
1.	EBC Concession	89	83	64	72
2.	GOI PM Scholarship	1	-	-	-
3.	Minority Scholarship	2	1	1	6
4.	J & K Special	2	2	2	-

32. Details on student enrichment programmes (special lectures/workshops/seminar) with external experts:

Student enrichment programmes

Academic Year 2014-15

SN.	Title of Event	Target audience	Date	Resource Person	Designation and Company Name of the Resource Person
1	PLC- A Tool of Automation and its capabilities	BE Students	09/07/14	Mr.A.V.Bhide	GM(Technical), Yantraharvest.

2	Microcontroller Applications and Importance of programming using Software Tools	TE Students	15/07/14	Mr. Prashant Chowdhury, Mr. Parthasarathi Chhotaray and Mr. Sawan Agarwal	Team of P.S. Technologies, Pune
3	SMPS Design	TE Students/ Faculties	26/08/14	Mr.V.B.Bapat	Technical Consultant in industrial Electronics and Automation
4	Next Generation Networks	BE	4/02/15	Mr. Ulhas Joshi	SDE, RTTC BSNL, Chinchwad, Pune
5	Image and Persona Management	TE & BE	27/02/15	Mrs. Kuiljeit Uppaal	CEO, Krea, Pune
6	BCH & RS Coding in information and Coding Techniques	TE	26/03/15	Prof. Wadhwa	Professor at DYPIET Pimpri
7	Enterprise Software	ME (CN)	10/09/14	Mr. Vinod Pillai	--
8	Carrier Opportunities in Embedded system	ME (VLSI)	12/09/14	Mr. Swapnil Belhe	CDAC

Academic Year 2015-16

Sl. No.	Title of Event	Target audience	Date	Resource Person	Designation and Company Name of the Resource Person
1	'Recent Advancement in Industries & Current Placement Scenario'	BE	16/07/15	Mr. Rohit Gupta	Accenture,Pune
2	'Recent advancement in solartronics (Solar & Electronics Products)'	BE	22/07/15	Mr.V.G.Abraham (Solartronics Pvt.Ltd)	Solartronics, Mumbai.
3	'Design & Simulation of Data Acquision System using Proteus'	TE	25/07/15	Mr.Vipin Vibhute	Asst. Prof. DYPCOE, (Instru)
4	'Entrepreneurship opportunities in Engineering'	BE	27/08/15	Mr.Nilesh Bagul MD of NB Machines Pvt. Ltd.	Managing Director, NB Machines Pvt. Ltd. Bhosari

| 5 | "Networking & Security" | BE & ME(CN) | 06/01/16 | Mr.Madhav Pandey | Manager, Zamil Information Technology Pvt. Ltd. |
| 6 | "Networking & Security" | BE & ME(CN) | 06/01/16 | Mr. Madhav Pandey | Manager Zamil Information Technology Pvt. Ltd. |

Academic Year 2016-17

Sl. No.	Title of Event	Target audience	Date	Resource Person	Designation and Company Name of the Resource Person
1	'Carrier Guidance'	BE	14/09/16	Mr. Abhay Bhakshi	Principle Consultant Freelauncing
2	'Introduction and Applications of Network Simulator 2-NS2'	BE	14/07/16	Mr. Omkar A. Gokhae	LogiX Automation Technology
3	'opportunities in VLSI and Embedded System Design Using Scripting'	BE & ME	26/09/16	Mr. Ashish Kalavar	--
4	'Fuzzy Inference Engine'	BE & ME	16/03/17	Prof. Arunkumar B. Patki	Professor Emeritus E&TC, COEP, Pune
5	'Armament Electronics-Challenges Ahead'	TE&ME	22/03/17	Dr. Virendra kumar Verma	Joint Director (retd.), ARDE, Pune

1. Teachingmethodsadoptedtoimprovestudentlearning:
    1. White board teaching
    2. LCD / Power point presentation
    3. Mock online objective test
    4. Use of Virtual Lab
    5. Unit-wise Assignment
    6. Use of NPTEL video Lectures
    7. Quiz / Contests
    8. Guest Lecture
    9. Seminar
    10. Collaborative Learning
    11. Project based learning

2. Participation in Institutional Social Responsibility (ISR) and Extension activities

SN	Activity	Venue of Event	Date of Activity
1	E-Cashless drive by NCC	Class room No. 4 & PCMC Market Place	11/1/17-20/1/17
2	E-waste collection drive	DYPCOE E & TC Dept	15/09/2016
3	Women's day Celebration for women safety and awareness	DYPCOE Shantai Auditorium	08/03/2017
4	Lecture by Dr. Sanjeev Patil on Positive Thinking for girls students under SPPU Nirbhay Kanya Abhiyan Yojana	DYPCOE Dnyanprasad Auditorium	20/03/2017

35. SWOC analysis of the department and Future plans
   a. Strengths:
   1. PhD recognized Center.
   2. University recognized PhD guides in DSP and Wireless communication.
   3. Well experienced and specialized in versatile domain faculties with average experience of 11 years.
   4. Provides platform for students to grow for extracurricular and cocurricular activities.
   5. Strong Industry Institute Interaction helps in campus placement, sponsorship for various academic activities and internship.

   b. Weaknesses:
   1. Consultancy needs to be inculcated.
   2. Inadequate support for choice of optional subject.
   3. Heavy Curriculum as compared with TIER-1.

   c. Opportunities:
   1. Project work allotment in cutting edge technologies.
   2. Introduction of PG courses in Signal Processing, RF & Microwave Engineering, MEMS, Integrated Electronics, Optical Communication etc.

   d. Challenges:
   1. Improvisation of employability skills of students.

   e. Future Plans:
   1. Introduction of PG courses in Signal Processing, RF & Microwave Engineering, MEMS, Integrated Electronics, Optical Communication etc.

Evaluative Report of Instrumentation and Control Department

1. Name of the department: Instrumentation & Control
2. Year of Establishment: 1994 (UG)
3. Name of Programmes/Courses offered(UG,PG, M.Phil., Ph.D., IntegratedMasters; Integrated Ph.D., etc.): B.E.(UG)
4. Names of Interdisciplinary courses and the departments/ units involved UG–

SN	Name of the Course	Branch
1	Engineering Mathematics III	Mathematics Department
2	Communication Skill	Communication Skill Department
3	Fundamental of programming Language	First Year Department

5. Annual/semester/choice based credit system(programme wise):

SN	Name of the Course	Branch	Annual/Semester based credit system
1	UG-FE	Instrumentation & Control	Semester based credit system
2	UG-SE,TE,BE	Instrumentation & Control	Semester System

6. Participationofthedepartmentinthecoursesofferedbyotherdepartments:

SN	Name of the Course	Branch
1	Mechanical Measurement & Control	Mechanical
2	Mechatronics	Production
3	Mechatronics	Mechanical
4	Embedded System	Electronics & Tele communication

7. Courses in collaboration with other universities, industries, foreign institutions, etc:

SN	Name of the Course	University/Industry/ Institution Name
1	Spoken Tutorial on C language	IIT
2	Spoken Tutorial on Digital Image processing	IIT
3	Spoken Tutorial on Project Engineering Management	IIT
4	Value added course on PLC	Instron ,Pune

8. Detailsofcourses/programmes discontinued(ifany)withreasons: NIL
9. Number of teaching posts:

Post	Sanctioned	Filled
	UG	
Professors	1	-
Associate Professors	2	-
Asst. Professors	6	10

10. Facultyprofilewithname, qualification, designation, specialization,
(D.Sc. /D.Litt. /Ph.D. /M. Phil.etc.,)

SN	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students Guidedforthe Last4 years
1	Mr. Nitin V. Mane	M.E.,PhD Pursuing	H.O.D.	Instrumentation & Control	16.2	NIL
2	Mr. Vipin S. Vibhute	M.E., PhD Pursuing	Asst.Prof.	Instrumentation & Control	21.2	NIL
3	Ms. Rachana R. Sangitrao	M.Tech.	Asst.Prof.	Process Control	5.8	NIL
4	Mr. Nirlipta R. Mohanty	M.Tech.	Asst.Prof.	Instrumentation & Control	3.10	NIL
5	Mr. Pauroosh B. Kaushal	M.Tech., PhD Pursuing	Asst.Prof.	Instrumentation & Control	3.9	NIL
6	Mrs. Arti A. Utikar	M.E.	Asst.Prof.	Biomedical Instrumentation	7.2	NIL
7	Ms. Vinita V. Yerande	M.Tech.	Asst.Prof.	Process Control	3.8	NIL
8	Ms. Sheetal K. Bhongle	M.Tech.	Asst.Prof.	Instrumentation & Control	2.8	NIL
9	Mrs. Archana Kesti	M.E.	Asst.Prof.	Biomedical Instrumentation	11.8	NIL
10	Mrs Rashmi. A. Deshpande	M.E.	Asst.Prof.	Biomedical Instrumentation	5.6	NIL

11. List of senior visiting faculty:

SN	Name	Qualification	Designation	Specialization	No. of Years of Experience
1	Mr. Shivaji G. Kumbhar	B.E. , B.Sc	Deputy Manager	Instrumentation & Control	35
2	Mr. Amol Keskar	B.E.	Entrepreneur	Instrumentation & Control	10

12. Percentage of lectures delivered and practical classes handled (programme-wise) by temporary faculty: **16.66%**
13. Student-Teacher Ratio (programme-wise)

Sl. No	Name of the Course	Total Student	Total Faculty	Student – Teacher Ratio
1	UG	199	10	16:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Number of academic support staff	Sanctioned	Filled
Technical	02	02
Administrative	04	04

15. Qualifications of teaching faculty with DSc/D.Litt/ Ph.D/MPhil/ PG.

SN	No. ofteaching faculty withPh.D.	No. ofteachingfaculty with M.Tech., M.E.	No. ofteaching faculty withB.E.	TotalNo. of faculty
1	NIL	10	-	10

16. Number of faculty with on going 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:

SN	Name of the Person Received Grant	Year	Funding Body	Title of Grant	Total Grant
1	Mr.N.V.Mane	2014-2016	BCUD	Boiler Modeling and Control	120,000/-
2	Mr. V.S.Vibhute	2013-2015	BCUD	Enhancement of Dexterous Movement of Anthropomorphic Robot Hand Finger using Stretch Sensor TM	140,000/-
3	Mrs.R.A.Deshpande	2016-2017	IIT Bombay	NPTEL awareness workshop	1,00264/-

18. ResearchCentre/facilityrecognizedbytheUniversity: NIL
19. Publications:

    *Number o f papers published in peer reviewed journals (national /international) by faculty and students :

    - National by Faculty: NIL
    - National by Students: 05,
    - International by Faculty :15
    - International by Students :NIL

    *Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database Sciences Directory, EBSCO host, etc.) : NIL
    * Monographs: NIL
    * Chapter in Books: NIL
    * Books Edited: NIL
    * Books with ISBN/ISSN numbers with details of publishers: 02
    * Citation Index
    * SNIP
    * SJR
    * Impact factor
    * h-index
    ***** Details Available in Annexure_I (Include all publication details as per criteria)

20. Areas ofconsultancyand income generated:

SN	Name of the Person Received income	Year	Funding Body	Title of Grant	Total Grant
1	Mrs.R.A.Deshpande	2016-17	Robokart.com in association with IIT	PLC/ SCADA Workshop	6000/-

21. Faculty asmembers in
    a) National committees: 1
    b) InternationalCommittees: NIL
    c) Editorial Boards: 1
22. Student projects
    a) Percentage of students who have done in-house projects including inter departmental/programme:

SN	Project Year	Number of Project	% In-house Projects
1	2014-15	12	63.15
2	2015-16	14	56
3	2016-17	17	80.95

    c) Percentage of studentsplaced for projects in organizations outside the institution i.e.in Research laboratories /Industry/ other agencies:

SN	Project Year	Number of Project	% Sponsored Projects
1	2014-15	7	36.86
2	2015-16	11	44
3	2016-17	4	19.04

23. Recognitions received by faculty and students: Table - II and III

Department level student's achievements

Year 2016-17

SN	Name of the Students	Event Name/Details	Position Secured
1	Nawsheen Kaur	DEBATE COMPETITION ORGANIZED BY ABHIVAKTI TEAM	1st Winner
2	Mohsin Momin	JATRA	Organizing/ Volunteering

Year 2015-16

S. No.	Name of the Students	Event Name/Details	Position Secured
1	Shubham Khedekar	CRONOS 2K15 ,DYPCOE AKURDI	Participation
2	Shubham Khedekar	SPHURTI'15,DYPCOE AKURI	Participation

Achievement of students in TECHNICAL EVENTS organized by other institutes

SN	Name of Student	Year	Event Description	Prize	Name of Institute
1	Akshay Mali	2016	KJ's Youth Festival – 2K16 (2016)	2nd Winner	KJ's Educational Institute
2	Kapil Shegokar	2017	Technical Paper Presentation organized by ISA	First runner up	AISSMS College of Engineering, Pune
3	Samadhan Patil & Team	2017	Project completion	9th position	College of Engineering Pune
4	Nikhil Dhuri & Team	2017	Project Competition texas	Participation	Texas Intrumentation
5	Tanmay Pathak & Team	2017	Project Competition texas	Participation	Texas Intrumentation

24. List of eminent academicians and scientists /visitors to the department:

SN	Names ofVisitors	Organization Represented	Nameof Event	Dateof Visit
1	Mr.Govind Oza	Director,Pari Robotics,Pune	State Level Seminar on Embedded System & Robotics	18th Feb 2016
2	Dr.D.N.Sonawane	College of Engineering ,Pune	State Level Seminar on Embedded System & Robotics	18th Feb 2016
3	Mr.Pranay Kishore	Founder CEO,Phi Robotics, Thane	State Level Seminar on Embedded System & Robotics	18th Feb 2016
4	Dr.Y.S.Rao	Vice Principal, Sardar Patel Engineering College, Mumbai	State Level Seminar on Embedded System & Robotics	18th Feb 2016

25. Seminars/Conferences/Workshops organized &the source offunding:
   b. National:

SN	Title of Seminar/Conference/ Workshop organized	Year	Source of Funding
1	SSER(2016) State Level Seminar on Embedded System & Robotics	2015-16	Savitribai Phule Pune University

   c. International:NIL

26. Studentprofileprogramme/course-wise:
*M=Male *F=Female

Academic Year: 2015-16

SN	Class	Application Recieved	No. of Student	No. of Male Student	No. of Female Student	Passing Percentage
1	S.E.	As per DTE	77	18	59	42.85
2	T.E.		69	16	53	53.62
3	B.E.		78	17	61	88.31

27. Diversity ofStudents

SN	Name of the Course	%of students from the same state	% of students from other	%of students from abroad
1	UG	96.67	3.33	NIL

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?: 9

29. Student progression

Student Progression	Against Enrolled		
	2015-16	2014-15	2013-14
UG toPG	1	5	3
PG toM.Phil.	NIL	NIL	NIL
PG toPh.D.	NIL	NIL	NIL
Ph.D.to Post-Doctoral	NIL	NIL	NIL
Employed			
Campus selection	25	6	21
Otherthancampus recruitment			
Entrepreneurship/Self-employment	NIL	1	NIL

30. Details of Infrastructural facilities:
   a. Library: Central Library with reading room consists of 660 Sq. Meter areas. In the
      Departmental library around 140 titles and 144 book available.
   b. Internet facilities for Staff &Students: Yes
   c. Class roomswithICTfacility: Yes
   d. Laboratory: Yes

Details ofLibrary facilities

SN	Facility provided	Details
1	Digitallibrary	E resource 4747, IEEE and Science Direct.
2	Internet connectivity	48 mbps wifi ,LAN
3	Journals	Periodical Journals 104
4	Magazines-Technical	-
5	MagazinesPersonality development	-
6	Industry-Institute Interaction	Pune Tectrol, Instron

Details of classroom & staff room facilities

Room Description	Usage	Shared / Exclusive ?	Capacity	RoomsEquippedwith PC, internet, bookrack, meeting space etc.
Class Room 27	SE.TE.BE.	Shared	90	Black Board ,Projector
Class Room 06	SE.BE	Shared	90	Black Board ,Projector

Details of Laboratory facilities

SN	Curriculum Lab Description	Lab conductedin	Space, Capacity &Cost	Nameof Technical Assistant	Name of Attaindent
1	Computer and Microcontroller	DSP,DIP,PI II, NM,ACS,	110Sq.m. 21,33,771/-	Mr. P Devputre	Mr.C.V.Kulk arni
2	Electronic Lab	BMI,PEM,DT ,EI	110Sq.m. 16,03,939/-	Mrs.N.S.Suryawan shi	Mr.C.V.Kulk arni
3	Transducer Lab	ISD,ST I,ST II,	110Sq.m. 11,99,504/-	Mrs.N.S.Suryawan shi	Mr.C.V.Kulk arni
4	Process Instrumentation Lab	PLC,ST I, STII	125 Sq.m. 32,82,331/-	Mr. P Devputre	Mr.C.V.Kulk arni

30. Number of students receiving financial assistance from college, university, Government or other agencies:
   - UG= 109 (for Academic year2015-16)
   - UG = 8 (for Academic year2016-17, under Earn and Learn Scheme)
31. Details on student enrichment programmes (special lectures/workshops/seminar)with external experts:

Student enrichment programmes

Year 2016-17

SN	Title of Program	Institution/ Organization	Resource Person	Date	UG/PG/PhD
1	PLC & SCADA Workshop	IIT Bombay	Mr. Jagdish Gite	17/9/16 to 18/9/17	UG
2	PCB Design Workshop	IIT Bombay	Mr. Yogesh Bhole	24/9/16 to 25/9/17	UG
3	Power Plant Instrumentation	College of Engineering, Pune	Mrs.Meera Khandekar	31/01/2017	UG
4	Instrumental Methods in Chemical anlysis	Head of Chemical Testing, kulkarni laboratories, pune	Arti Paranjape	23/09/2016	UG
5	Advance Biomedical engineering	Product Manager, Biorad Medisyl, PVT LTD	Mrs. Akshta Ghugare	23/07/2016	UG
6	Instrumentation in Digital Control	System Engineer, Emerson PVT LTD	Abhijeet Murgunde	22/07/2016	UG
7	Future in Instrumentation	Asst. Manager,Praj	Anoop Nisal	10/9/2016	UG

		industries Pune			
8	Process Instrumentation	Dy. Manager at Hindustan Antibiotics, Pune	S. G. Kumbhar	23/09/2016	UG
9	Industrial Automation & Instrumentation	Asst. Manager,Praj industries Pune	Anoop Nisal	27/1/2017	UG

Year 2015-16

SN	Title of Program	Institution/ Organization	Resource Person	Date	UG/PG/PhD
1	Medical Imaging Diagnostic Technique	Research Analyst in Healthcare Sector at Markets & Markets (Research Firm)	Ms. Akshata Ghugare	25/07/15	UG
2	Recent trends in Building Automation	Manager Sales & delivery Johnson Controls	Mr. Tushar Jadhav	23/09/15	UG
3	Process Instrumentation	Dy. Manager, Hindustan Antibiotics Limited	Mr. S. G. Kumbhar	19/09/15	UG
4	Control System	Ph.D persuing, SGGSEINT, Nanded	Ms. Kakoli Majjumder	28/12/2015	UG
5	Unit operation & Power Plant	Asst. General Maneger Tata Power, Mumbai	Mr. Arvind Paranjape	8/01/2016	UG
6	Digital Image Processing	Professor & PG Head, E&TC NBN Sinhgad School of Engg. Ambegaon	Mrs. Sushma Shelke	22/01/2016	UG
7	Virtual Instrumentation	Head of Labview Solutions	Mr. Amit Amrutkar	11/03/2016	UG
8	Carrier in Instrumentation	System Engineers at MNC	Mr. Abhijeet Murgunde	13/03/2016	UG

Year 2014-15

SN	Title of Program	Institution/ Organization	Resource Person	Date	UG/PG/PhD
1	Control System Design	COEP	Mr. Divyesh Goniya	13/09/2014	UG
2	Respiratory System & Ventillators	Dreager India Pvt. Ltd	Ms. Akshata Ghugre	13/09/2014	UG

32. Teaching methods adopted to improve student learning:

- Video demonstration
- Technical Quiz
- Group Discussion
- Industrial Visits
- Guest Lectures
- NPTEL Videos
- Spoken Tutorials
- Mini projects
- Poster Presentations.

33. Participation in Institutional Social Responsibility (ISR) and Extension activities:

SN	Department	Name of Activity	Date	Venue	Name of Coordinators	No. of Participants
1	Instrumentation & Control	Denotation at nachiket Balgram	5/9/2015	Nachiket Balgram, Akurdi pune	Vinita Yerande & Sheetal Bhongle	SE TE BE students and 10 faculties from dept.

35. SWOC analysis of the department and Future plans:

Strengths:
- Student from 2015-16 batch has secured second position in the University Ranking for Instrumentation & Control. She has also secured first position in the Institute Ranking for the same year.
- Well equipped Process Instrumentation Lab to cater to the technical needs of students
- Well trained faculty members in specialized areas like PLC, SCADA.
- Research grant from BCUD.
- Excellent interaction with alumina working in reputed companies.

Weakness:
- Consultancy projects.
- Heavy & squeezed curriculum.

Opportunities:
- Starting of PG Program
- Enhancement of employability of students.
- More number of faculties will pursue PhD.

Challenges:
- Project in cutting edge technologies like micro electro mechanical system.

Future Plans:
- To involve faculty members in revenue generation through consultancy projects.

Evaluative Report of Production Engineering Department

1. Name of Department – Production Engineering.
2. Year of Establishment –
   - 2002(UG)
   - 2004 (PG)
3. Namesof Programmes/Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)
   - B.E (Production Sandwich)
   - M.E(Manufacturing Engineering & Automation)
4. Name of interdisciplinary courses and the departments/ units involved –

   Department is taking support for following subject from other departments.

SN	Name of Course	Name of Subject	Semester	Bracnch
1	SE	Engineering Mathematics	III	First Year
2		Soft Skill	IV	Soft Skill Department
3		Electrical Engineering	IV	Electrical Department
4		Theory Of Machine	IV	Mechanical Department
5		Material Science	III	Mechanical Department
6		Heat & Fluid Engineering	III	Mechanical Department
7	BE	Mechatronics & Robotics	I	Instrumentation Department

5. **Annual/ Semester choice base credit system (Program wise) –**

SN	Name of the Course	Branch	Annual/Semester based credit system
1	Bachelor of Engineering	Production Engineering	Semester based Credit system
2	Master in Engineering	Production Engineering	Semester based Credit system

6. **Participation of the department in courses offered by other departments.**

   Department is imparting for inter departmental courses

SN	Name of Course	Subject Name	Semester	Branch
1	First Year Engineering	Basic Mechanical Engineering	II	First Year Engineering
2	Third Year Mechanical Engineering	Metrology & Quality Control	V	Mechanical Engineering

7. **Courses in collaboration with other universities, industries, foreign institutions etc.**

SN	Particular	University/ Industry/ Foreign institutions etc.
1	Personality development & Aptitude Training	SEED InfoTech
2	Personality development & Aptitude Training	Apart Academy
3	Mechatronics	Pune Techtrol

8. **Details of course/ Program discontinued (If any) with reason –**Nil

9. **Number of Teaching Posts**

SN	Name of the post	Sanctioned No.	Filled
1	Professor	01	Nil
2	Asso.Prof.	03	Nil
3	Assistant Professor	11	12

10. **Faculty Profile**

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4
Vinay Arun Kulkarni	HOD, Assistant Professor	M.Tech,PhD	Manufacturing and Quality Control	15	Nil
Sandeep Sarnobat	Assistant Professor	M.Tech, MBA, PhD(Pursuing)	Production and Manufacturing	20	Nil
Nitin Kundlik Kamble	Assistant Professor	M.Tech, PhD(Pursuing)	Manufacturing and Automation	10	Nil
Yogesh Ganpat Kamble	Assistant Professor	M.Tech, PhD(Pursuing)	Manufacturing and Automation	4	Nil
Rohit Prabhakar Jadhav	Assistant Professor	M.E	CAD/CAM/CAE	4	Nil
Mallikarjun Nagayya Mathapati	Assistant Professor	M.Tech	Product Design and Manufacturing	4	Nil
Pradnesh Ramesh Padave	Assistant Professor	M.E	Manufacturing and Automation	4	Nil
Jaydeep Maruti Khade	Assistant Professor	M.Tech	Physical Metallurgy	4	Nil
Nilesh Madhukar Mahajan	Assistant Professor	M.Tech	Manufacturing and Automation	3	Nil
Sanket Vishwas Bhosale	Assistant Professor	M.E	Mechanical and Production Engineering	3	Nil
Vinayak Prakash	Assistant	M.E	Manufacturing and	1	Nil

Parsekar	Professor		Automation		
Dhaananjay Sanjay Mane	Assistant Professor	M.E	Manufacturing and Automation	1	Nil

11. List of Senior Visiting Faculty

SN	Name	Qualification	Designation	Specialization	No. of Years of Experience
1	V.B.Tamboli	BE	Adjunct Faculty	Electrical	44 Years
2	S.S.Shouche	BE	Adjunct Faculty	Production	12 Years
3	A.Y.Momin	BE	Adjunct Faculty	Production	24 Years

12. Percentage of lectures delivered and Practical classes handled by temporary faculty

20% percent of lectures and practical delivered by temparorary faculties.

13. Student Teacher Ratio

SN	Name of the Course	Total Student	Total Faculty	Student – Teacher Ratio
1.	B.E.(Production)	203	15	15
2	M.E.(Production)	21	02	11

Student Teacher Ratio $= \frac{TotalNoofStudents}{TotalFacultyAvalaible}$

$$= \frac{188}{13} = 15$$

- UG Student Teacher Ratio is equals to 15:1
- PG Student Teacher Ratio is equals to 11:1

14. Number of Academic staff and Administrative staff; Sanctioned and Filled

Number of academic support staff	Sanctioned	Filled
Support staff (technical)	02	02
administrative staff	05	05

15. **Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.**

SN	No. of teaching faculty with Ph.D.	No. of teaching faculty with M.Tech.	No. of teaching faculty with B.E.	Total No. of faculty
1	01	11	-	12

16. Number of faculty with ongoing projects from a) National b) International funding Agencies and grant received
    Nil

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received

SN	Name of the Person Received Grant	Year	Funding Body	Title of Grant	Total Grant
1.	Dr. V.A.Kulkarni	2013-2015	BCUD SPPU	Development of Supervisory control and Data Acquisition system by touch Tigger probe Type CMM	Rs.1,60,000/-
2.	S.S.Sarnobat & N.K.Kamble	2013-2015	BCUD SPPU	Experimental Investigation Analysis & Modeling in Turning of hardened Steel	Rs.1,40,000/-

18. Research Centre/ Facility recognized by University:
    Nil

19. Publications
    - a) Publication per faculty: - 02
    - Number of papers published in peer reviewed journals (national /international) by faculty and students
        - ✓ International Journal :- 10
        - ✓ National Journal:- 01
    - Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) :- 11
    - Monographs:- Nil
    - Chapter in Books: - 01 (Springer Atlantis 2017 in Process)
    - Books Edited: - Nil
    - Books with ISBN/ISSN numbers with details of publishers:-

SN	Name of Author	Book Name	ISBN/ISSN	Publisher
1	Dr. V.A.Kulkarni	Metrology & Measurement	10-0070140006 (Reprint 2015)	Tata Mc-Graw Hill
2	Dr. V.A.Kulkarni	Quality Control	9788126520200 (Reprint 2015)	Wiley India

- Citation Index: - 33
- SNIP:- Nil
- SJR:- Nil
- Impact factor: - Nil
- h-index: - 02

Sr.No	Name of the Faculty	International Journals	Books Published
01	V.A.Kulkarni	05	02

| 02 | N.K.Kamble | 05 | -- |

20. Areas of Consultancy and income generated: Nil
21. Faculty as members in
    a) National committees: - Nil
    b) International Committees: - Nil
    c) Editorial Boards: - 0
22. Students Projects:

A) Percentage of students who have done in-house projects including inter departmental/Programme:- Nil

B) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies:- 100%

Bachelor of Production Sandwich Engineering

SN	Academic Year	No. of students	Outside Project Percentage
1	2015:-16	76	100
2	2014:-15	66	100
3	2013:-14	67	100
4	2012:-13	37	100

Masters of Production Engineering (Manufacturing Engineering and Automation)

SN	Academic Year	No. of students	Total No. of		Percentage	
			In-house Projects	Outside Projects	In-house Project	Outside Project
1	2015:-16	12	8	4	66.67	33.33
2	2014:-15	13	10	3	77.00	23.07
3	2013:-14	12	10	2	83.33	16.66
4	2012:-13	15	15	NIL	100	NIL

23. **Awards / Recognitions received by Faculty/students: Nil**
Dr.V.A.Kulkarni:-
   a) Reviewer in ICTIEE 2007 conference & European Journal of Engineering Education, Taylor & Francis.
   b) Involved financial review committee of SPPU travel grant for attending international conference.

Awards / Recognitions received by Students:

SN	Name of Student	Award / Recognition	Year	Organization	Details
1	Mr. Tanmay Rathod	Best Suggestion	2016:-17	Divgi & Torque transfer Systems Pvt. Ltd.	Special Recognition during Industrial InPlant Training
2	Mr. Aditya Awadhani	Best Suggestion	2016:-17	Divgi & Torque transfer Systems Pvt. Ltd.	Special Recognition during Industrial InPlant Training
3	Shailesh Jatale	Research	2015:-16	Kokan Gyanpeeth	. Presented paper in

		Papaer		Engineering College Karjat	International Conference on "Lean Manufacturing in Industry for increasing productivity by reducing waste"
4	Pratik Jadhav	1st Prize	2015:-16	VIT, Kamshet	Member of team which won Volleyball Tournament
5	Pratik Jadhav	3rd Prize	2015:-16	DYPCOE	Poster Presentation
6	Gaurav Sutar	1st Prize	2015:-16	DYPCOE	in Poster Presentation
7	Gaurav Sutar	1st Prize	2015:-16	DYPCOE	Mock Placements
8	Malhar Dalvi	2nd Prize	2015:-16	DYPCOE	Poster Presentation Competition
9	Akshay Bhirud	2nd Prize	2015:-16	DYPCOE	Carrom Competition
10	Akshay Bhirud	2nd	2014:-15	Intercollege competition at DYPCOE	Cad:-Master
11	Sagar Prajapati	1st	2014:-15	Intercollege competition at DYPCOE	Singing in sphurti15'
12	Yash Sahastrbuddhe	1st	2014:-15	State level DramaCompetition	Bharat karandak:- Drama
13	Yash Sahastrbuddhe	Consolidated 1st	2014:-15	State level DramaCompetition	Vinodattam Drama
14	Vinayak Kamath	1st	2014:-15	Intercollege competition at DYPCOE	Solo Dance:- Sphurti:- 2015'
15	Nikhil Deshmukh	1st	2012:-13	National level	Robotics

24. List of eminent academicians and scientists / visitors to the department**:**

SN	Names ofVisitors	Organization Represented	Nameof Event	Dateof Visit
1.	Dr. B. B. Ahuja	COEP, Pune	NBA	26th Sept 2015
2.	Dr. B. Rajiv	COEP, Pune	Academic	10th September 2016
3.	Dr. Anand Bewoor	Cummins COE, Pune	Workshop	31st March 2016
4.	Mr. Balaji Reddy	Deming Forum India	Keynote Speaker for National Conference	7th and 8th August, 2014
5.	Praveen Deshpande	Jagadamba Auto Pvt. Ltd.	Keynote Speaker for National Conference	7th and 8th August, 2014
6.	Rupesh Yadav	Thermax Ltd.	Industry:- Institute Interaction	30th June 2016

7.	Dr. M. R. Phate	AISSMS COE, Pune	Expert for Three day workshop on " Statistical and quantitative analysis methods"	15th – 17th February 2017
8.	Mr. Anirudh Kakodkar	QC services, Pune	Expert for Three day workshop on " Statistical and quantitative analysis methods"	15th – 17th February 2017
9.	Dr. B. U. Sonawane	COEP, Pune	Academic Purpose	06th October 2016
10.	Mr. Amol Thakare	Sandwik Asia Pvt. Ltd.	Idustry:- Institute Interaction	30th June 2016
11.	Mr. C. J. Bapat	Thyssenkrup India Ltd.	Idustry:- Institute Interaction	30th June 2016
12.	Mr. Karjekar	Divgi Torq Transfer systems	Idustry:- Institute Interaction	4th December 2016
13.	Mr. Kanase Kedar	Kirloskar Oil Engines Ltd. Khadki	Expert lecture	19th July 2014
14.	Mr. Mangesh Ashtekar	Forbes Marshall Ltd.	Idustry:- Institute Interaction	12th July 2014
15.	Mr. M N Arankalle	Mahindra Conveyor System, Pune	Idustry:- Institute Interaction	12th July 2014
16.	Mr. Sachin Turi	Tata Motors, Pune	Idustry:- Institute Interaction	12th July 2014
17.	Mr. Satyajeet Kulkarni	ARAI, Pune	Expert lecture	11th September 2014
18.	Prof. P.P. Mitragotre	WIT Solapur	Academic Purpose	02nd April 2016
19.	Mr. P.A. Gaikwad	Bajaj Auto ltd.	Academic Purpose	12th April 2016
20.	Mr. Praven Sonawane	Tata Technology	Academic Purpose	12th September 2016
21.	Prof. S. D. Lembe	Bharati Vidyapeeth COE	Academic Purpose	14th September 2016
22.	Dr. J. S. Bagi	Shivaji University, Kolhapur	Academic Purpose	26th August 2014
23.	Mr. Sarang Joshi	Parametric Technology	Academic Purpose	30th June 2014
24.	Dr. Shrikant Kallurkar	Atharv Institute of Technology	Academic Purpose	15th July 2013
25.	Dr. P. K. Brahmankar	BATU, Lonere	Academic Purpose	12th August 2012

25. Seminars / Conferences / Workshops organized:

a) National
b) International
Seminar/ Guest Lecture Conducted:

SN	Title of Seminar/Guest Lecture	Date	Resource person	Source of Funding
1	CAE awareness seminar for Vehicle crash Worthyness	17th February 2017	Mr. Nachiket Phadake	Self-Sponsored
2	Advances in Welding Processes	14th January 2016	Mr. V. B. Tamboli	Self-Sponsored
3	Geometric Dimensioning and Tolerancing	09th January 2016	Mr. A. Y. Momin	Self-Sponsored
4	Professional Studies on Business Opportunities	4th February 2015	Helery Doston	Self-Sponsored
5	Design of Experiments	23rd January 2015	Mr. Pravin Deshapande	Self-Sponsored
6	Career Building In Forging Industry	11th September 2014	Mr. Satyajit Kulkarni	Self-Sponsored
7	Engineering Initiatives for betterment of India	19th July 2014	Mr. Kedar Kanse	Self-Sponsored
8	Expert lecture on Six Sigma	17th July 2014	Mr. Praveen Deshpande	Self-Sponsored

National Conference:

SN	Title of Seminar/Conference/ Workshop organized	Year	Source of Funding
1	Statistical Analysis and Computing in Engineering and Management (NC:-SACEM 2014)	2014-15	Self-Sponsored

Workshops Organized:

SN	Title of Workshop	Date	Resource Person	Designation and Company name of Resource Person	Source of Funding
1	Statistical and Quantitative Research Methods	15th – 17th February 2017	Mr. Aniruddha Kakodkar & Dr. M. R. Phate	Self-Sponsored	Statistical and Quantitative Research Methods
2	Rubrics for Teaching & Learning	31st March 2016	Dr. V. A. Kulkarni	Self-Sponsored	Rubrics for Teaching & Learning

26. **Student profile programme/course wise:**

Academic Year	Applications received	Selected	Enrolled		Percentage Passing
			*M	*F	
2012-13 (UG)	As The admission process is followed by DTE, The rules and reregulation are followed in the admission process regulations	60	58	02	98.68%
2014-15(PG)	Only non-zero positive GATE score is valid to take admission for ME	12	11	01	100%

*M = Male   *F = Female

27. Diversity of Students:
   BE Production Sandwich

Name of the Course	%of students from the same state	% of students from other States	%of students from abroad
BE Production (2016-17)	58.33%	5%	Nil
BE Production (2015-16)	96.66%	3.33%	Nil
BE Production (2014-15)	76.66%	1.66%	Nil

ME Production (Manufacturing & Automation)

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
ME Production (2016-17)	100%	Nil	Nil
ME Production (2015-16)	75%	25%	Nil
ME Production (2014-15)	100%	Nil	Nil

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil Services, Defense services, etc?

Gate Cleared	Civil Services Cleared	Defense Services	GRE	IELTS	TOEFL
03	Nil	Nil	15	Nil	15

29. **Students Progression:**

Student Progression	2012-13	2013-14	2014-15	2015-16
UG to PG	4	9	7	4
PG to M.Phil	Nil	Nil	Nil	Nil
PG to Ph.D	Nil	Nil	Nil	Nil
Ph.D to Post-Doctoral	Nil	Nil	Nil	Nil
Employed in Campus selection	2	15	29	26
Employed Other than campus recruitment	18	40	25	35
Entrepreneurship / Self – employment	1	1	1	2

30. Details of Infrastructural facilities:

    a) Library

    b) Internet facilities for Staff & Students

    c) Class rooms with ICT facility

    d) Laboratories

SN	Infrastructural facility	Details	Number
1	Library	Books-	699
		Volumes	2131
		Journals	11
		manuals	52
		CDs	112
	Departmental Library	Books	72
2	Internet facility for staff and	Computers	30

	students	Computer with internet facility	30
		Bandwidth	48mbps
3	Classrooms	with ICT facility	2
4	Laboratories	Under Graduate	6
		Post Graduate	2
5	Seminar Room	With ICT	-
6	Tutorial Room	Under Graduate	-
		Post Graduate	1
7	Major Equipments: Server	Server	2
8	UPS	UPS	2

31. Number of students receiving financial assistance from college, university, government or other agencies:

SN	Details of financial assistance	Academic year/ No of students				
		2011- 2012	2012- 2013	2013- 2014	2014- 2015	2015-2016
1	OBC Freeship	16	26	Nil	19	20
2	SC Freeship	5	5	Nil	5	6
3	SBC Freeship	2	2	Nil	3	0
4	ST Freeship	Nil	Nil	Nil	Nil	Nil
5	VJ/NT Freeship	7	5	Nil	7	6

32. Details on students enrichment programmes (special lectures/workshops / seminars) with external experts:
   ✓ Total : 16
   ✓ Workshop : 02
   ✓ Short term Courses : 01
   ✓ Certified Courses : 01
   ✓ Guest Lecture: 12
   ✓ Conferences: 01

SN	Type of Enrichment Programme	Topic	Target audience	Duration Date	Details of Expert (Name, designation, organization)
1	Industrial Visit	Students observe the "Casting Process".	SE students	1 day	Prajapati Foundry
2	Industrial Visit	Students observe the innovations in manufacturing and Automation	SE and TE students	1 day	Mahatech Expo
3	Industrial Visit	Students learn about the automation used in automobile industries.	BE students	1 day, August 2015	Volkswagen, Pune plant
4	Industrial Visit	Students observed process	BE students	1 day, Feb 2016	Sant Tukaram Sakhar karkhana

		manufacturing concept			
5	Industrial Visit	Students observe the "Casting Process".	SE students	1 day, Sept 2014	Shembekar Foundry
6	Guest Lecture	Engineering Initiatives for betterment of India	SE and TE Students	1 day, Sept 2014	Mr. Kedar Kanse, General Manager Corporate Research and Engineering, Kirloskar Oil
7	Expert lecture	Design of Experiments	SE and TE Students	1 day, July 2014	Mr. Praveen Deshpande from Forbes Marshell
8	Expert lecture	Career building in engineering	SE and TE Students	1 day, September 2014	Mr. Satyajeet Kulkarni Deputy Manager, ForgingIndustry Division ARAI
9	Expert lecture	Diffusion coating	SE and TE Students	1 day, 29th Sept 2016	Mr. Akshay Joshi, Asst. manager, Bharat Forge
10	Expert lecture	CAE awaireness for vehical crash worthiness	TE and SE students	1 day, 17th Feb 2017	Nachiket Phadake, ELENO Engineering
11	Expert lecture	English Accent improvement	SE students	1day, Sept 2014	Dr. Shalaka Parker
12	Expert lecture	Professional Studies on Business Opportunities	BE students	1 day, Feb.2015	Mrs Hillary Dostal Senior Manager, Corporate Programs from Northeastern University, USA
13	Workshop	Methodology workshop "Rubrics in teaching learning"	Faculties of teaching institutes	1 day, May 2016	Dr. V A Kulkarni, HOD, DYPCOE ak.
14	Workshop	Minitab	ME students	3 days Feb.2017	Mr. Aniruddha Khaddakar, Six Sigma Black Belt
15	Workshop	Industry institute interaction	Industry experts and Faculties of production Dept.	1day, March 2014	Mr. KailashBabu Deputy Director BOAT
16	Conference	Statistical Analysis and Computing in Engineering and Management (NC-SACEM 2014)	Students, Delegates, industry Experts, Faculties of institutes	2 Days, Aug. 2014	Production Engineering Department in Association with Indian Society for Technical Education

33. Teaching methods adopted to improve student's learning:

The following are the different teaching methods adopted to improve student learning

- ➢ Class room lectures
- ➢ Power point presentations with animations
- ➢ Invited Guest Lectures
- ➢ Group Discussion
- ➢ Student's seminars and presentations
- ➢ Industrial visits
- ➢ Attend seminars and conference
- ➢ Industrial In-plant training
- ➢ Interactive and innovative learning session with role play, quiz, etc.
- ➢ Assignments and projects
- ➢ Unit test
- ➢ Tutorial classes

34. Participation in Institutional Social Responsibility (ISR) and Extension activities: ISR and Extension activities are organized under the aegis of various clubs like NSS, Rotary Club at the Institute.

SN	Duration	Type of activity	Details of Activity	No of Participants (Faculty & Students)
1	2013-14	Health Check up	Free medical check-up camp for the students of 1st and 2nd standard at Shikshan Mandal Pimpri-Chinchwad Mahanagar Palika Prathmik shala, Walhekarwadi (School No Kanya-18/2)	60
2	2015-16	Fort Cleaning	Collection of plastic bags, waste in Tikona Fort	10
3	2016-17	Road Safety Awareness	Students prepare road safety posters along with slogans. Road safety awareness program started with rally and students give importance to helmet, traffic signals to people.	50

35. **SWOC analysis:**

Strength
- Industrial In plant Training for Students for one year during course
- MOUs with Industries.
- Experienced faculty and staff.
- State of art Infrastructure and well equipped laboratories.
- Effective teaching learning process.

Weakness
- Consultancy work.
- Heavy & Squeezed curriculum.

Opportunities
- Placement of students through Industrial In-plant Training
- Industrial globalization.

Challenges
- Collaborations with foreign universities, IITs and NITs.

- Students with diverse background.
- Tough competition for employability.

Future Plan

- Research center for PhD
  - PG course in Additive Manufacturing

Declaration by The Head of the Institute
Annexure 1

D. Y. PATIL COLLEGE OF ENGINEERING

Approved by All India Council of Technical Education, New Delhi
Affiliated to University of Pune, Identification No. PU/PN/EnGG/055 (1984)
Sector No. 29, Nigdi, Pradhikaran, Akurdi, Pune - 411 044. Tel. : (020) 27653054 / 58, Fax : (020) 27653057
Website : http://dypcoeakurdi.ac.in   E-mail : principal@dypcoe-akurdi.org
"30th Year of Excellence in Engineering Education"

Padmashree Dr. D. Y. Patil M. A., L.L.B., Ph. D.

Founder President

Dr. Sanjay D. Patil
President

Shri Satej D. Patil
(M.L.C.), Ex State Home Minister, Maharashtra

Ref. No. : DYPCE/Est/8862

Date : 23/3 /2017

DECLARATION BY THE HEAD OF THE INSTITUTE

I hereby certify that the data provided in the **Self Study Report (SSR)** of NAAC of our institute is true to my knowledge. This SSR is prepared by the faculty members and staff working in the institute and none of the part of SSR is outsourced.

I am aware of the fact that peer team will validate the data provided in SSR during the peer team visit.

Date: 23/3/17
Pune.

(Dr. Basavaraj S. Balapgol)
Principal

Approval of Courses of Affiliating University
Annexure 2

दूरध्वनी क्रमांक:
०२०-२५६९१३३३
२५६०१२५७
२५६०१२५८
२५६०१२५९

15120101

सावित्रीबाई फुले पुणे विद्यापीठ
(पूर्वीचे पुणे विद्यापीठ)

गणेशखिंड, पुणे-४११००७.

टेलिग्राफ : 'युनिपुणे'
फॅक्स : ०२०-२५६९१२३३
वेबसाइट : www.unipune.ac.in
इ-मेल : dyracademic@unipune.ac.in

संदर्भ क्र.: CA/1282

दि.: 20/05/2016

प्रति,
मा. प्राचार्य,
डॉ. डी वाय पाटील प्रतिष्ठान डी वाय पाटील कॉलेज
ऑफ इंजिनिअरिंग पत्ता: सेक्टर न.२९, अकुर्डी, पुणे
४११०४४ ता.: हवेली(महानगर पालिका हद्द वगळून)
जि: पुणे

विषय:- अटींच्या पूर्ततेच्या पडताळणी अहवालबाबत...

महोदय,

वरील विषयासंदर्भात विद्यापीठ अधिकार मंडळाने घेतलेल्या निर्णयानुसार आपणास कळविण्यात येते की, आपल्या महाविद्यालयास शैक्षणिक वर्ष २०१६-२०१७, या वर्षाकरिता खालील रकान्यात नमूद केलेल्या अभ्यासक्रमांच्या संलग्नीकरणाच्या नुतानिकरणास / नैसर्गीकवाढीस अखिल भारतीय तंत्रशिक्षण परिषद, नवी दिल्ली व तंत्रशिक्षण संचालनालय, महाराष्ट्र शासन यांचे अभ्यासक्रम व प्रवेश क्षमता मान्यतेच्या अधीन राहून अटी पूर्ततेचा पडताळणी अहवाल स्वीकारण्यात आलेला आहे.

शैक्षणिक वर्ष २०१६-२०१७ करिता अटी पूर्तता अहवालाचे पत्र देत असताना स्थानिक चौकशी समितीच्या अहवालात नमूद केलेल्या ज्या शिक्षकांची तदर्थ नेमणुका करण्यात आलेल्या आहेत अशा सर्व शिक्षकांना शैक्षणिक वर्ष २०१६-२०१७ मध्ये कायम ठेवण्यात यावे.तसेच याबाबत विद्यापीठामार्फत वेळोवेळी तपासणी करण्यात येईल.

अनु. क्र.	अभ्यासक्रमाचा तपशील	विद्यार्थी संख्या	प्रथमपाळी/द्वितीय पाळी	संलग्नीकरणाचा प्रकार
1	एम.इ. (इलेक्ट्रानिक्स) एम्बेडेड सिस्टिम्स अँड व्हीएलएसआय डीझाइन	18	2016-2017 : - वर्ष प्रथम व द्वितिय- Div No.1,.	नूतनीकरण
2	एम.इ. (प्रोडक्शन)	15	2016-2017 : - वर्ष प्रथम व द्वितिय- Div No.1,.	नूतनीकरण
3	एम.इ. (मेक.) हीट पॉवर इंजिनियरिंग	18	2016-2017 : - वर्ष प्रथम व द्वितिय- Div No.1,.	नूतनीकरण
4	एम.इ. (मेकॅनिकल डिझाइन)	18	2016-2017 : - वर्ष प्रथम व द्वितिय- Div No.1,.	नूतनीकरण
5	एम.इ. (सिविल) कन्स्ट्रक्शन मॅनेजमेंट	18	2016-2017 : - वर्ष प्रथम व द्वितिय- Div No.1,.	नूतनीकरण
6	एम.इ. कॉम्प्युटर (कंप्युटर नेटवर्क)	25	2016-2017 : - वर्ष प्रथम व द्वितिय- Div No.1,.	नूतनीकरण

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D.Y.P.C.E.
Inward No. 4248
Date 03/6/16

4/30/2016 1:12:45 PM

7	एम.ई इलेक्ट्रॉनिक अँड टेली कॉमीनीकेशन (कॉमीनीकेशन नेटवर्किंग)	18	2016-2017 : - वर्ष प्रथम व व्दितिय- Div No.1,,	नूतनीकरण
8	एम.ई. (सिविल) एन्वाइरन्मेंटल इंजिनियरिंग	18	2016-2017 : - वर्ष प्रथम व व्दितिय- Div No.1,,	नूतनीकरण
9	बी.ई. (इन्फर्मेशन टेक्नॉलॉजी)	120	2016-2017 : - वर्ष पहिले ते चौथे- Div No.1,-वर्ष पहिले ते चौथे- Div No.2,,	नूतनीकरण
10	बी.ई. (इन्स्ट्रुमेंटेशन & कंट्रोल)	60	2016-2017 : - वर्ष पहिले ते चौथे- Div No.1,,	नूतनीकरण
11	बी.ई. (इलेक्ट्रॉनिक्स अँड टेलिकम्यूनिकेशन)	120	2016-2017 : - वर्ष पहिले ते चौथे- Div No.1,-वर्ष पहिले ते चौथे- Div No.2,,	नूतनीकरण
12	बी.ई. (कॉमप्यूटर)	120	2016-2017 : - वर्ष पहिले ते चौथे- Div No.1,-वर्ष पहिले ते चौथे- Div No.2,,	नूतनीकरण
13	बी.ई. (प्रोडक्शन सँडविच)	60	2016-2017 : - वर्ष पहिले ते चौथे- Div No.1,,	नूतनीकरण
14	बी.ई. (मेकॅनिकल)	180	2016-2017 : - वर्ष पहिले ते चौथे- Div No.1,-वर्ष पहिले ते चौथे- Div No.2,-वर्ष पहिले ते चौथे- दुसरी पाळी Div No. 3,,	नूतनीकरण
15	बी.ई. (सिविल)	180	2016-2017 : - वर्ष पहिले ते चौथे- Div No.1,-वर्ष पहिले ते चौथे- Div No.2,-वर्ष पहिले ते तिसरे- दुसरी पाळी Div No. 3,,	नूतनीकरण
16	बी.ई. (सिविल)	180	2016-2017 : - वर्ष चौथे- दुसरी पाळी Div No. 3,,	नैसर्गिकवाढ

कळावे,

आपला,

PRINCIPAL
D. Y. PATIL COLLEGE OF ENGG
AKURDI, PUNE-411044

उपकुलसचिव
शैक्षणिक विभाग
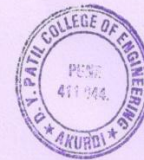
2 Of 2

4/30/2016 1:12:45 PM

D Y Patil College of Engineering, Akurdi, Pune-44   **353**

सावित्रीबाई फुले पुणे विद्यापीठ

(पुर्वीचे पुणे विद्यापीठ)

दूरध्वनी कमांक :
०२०—२५६९१२३३
२५६०१२५८
२५६०१२५९

शैक्षणिक विभाग
गणेशखिंड, पुणे—४११ ००७
टेलिग्राफ : 'युनिपुणे'
फॅक्स : ०२०—२५६९१२३३
वेबसाइट : www.unipune.ac.in
ई—मेल : dyracademic@unipune.ac.in
दिनांक : ०२/०३/२०१६

संदर्भ क्र. :सीए/४२१

प्रति,
मा. प्राचार्य,
डॉ. डी. वाय. पाटील प्रतिष्ठानचे,
डी.वाय.पाटील कॉलेज ऑफ इंजिनिअरींग,
सेक्टर नं.२९,निगडी प्राधिकरण आकुर्डी,
पुणे— ४११ ०४४

विषय :— संशोधन केंद्राच्या नव्याने मान्यतेबाबत...
संदर्भ क्र. :सीए/५६७ परिपत्रक क्र. ६६/२०१३ दि. २७.०२.२०१३

महोदय,

उपरोक्त विषय व संदर्भांकीत परिपत्रकातील नियमांच्या अधिन राहुन विद्यापीठ अधिकार मंडळाने घेतलेल्या निर्णयानुसार आपणास कळविण्यात येते की, आपल्या महाविद्यालयात खालील रकान्यात नमूद केलेल्या विषयांच्या पीएच.डी. संशोधन केंद्रास नव्याने मान्यता देण्यात येत आहे. तथापि, महाविद्यालयाने खालील बाबींचे अनुपालन करणे आवश्यक आहे.

१)उपरोक्त नमूद कालावधीसाठी महाविद्यालयामध्ये पीएच.डी. इलेक्ट्रॉनीक्स ऑन्ड टेलिकम्युनिकेशन इंजिनिअरींग, सिव्हील इंजिनिअरींग या प्रत्येक विषयातील पीएच.डी. संशोधन मार्गदर्शकांची संख्या विद्यापीठ परिपत्रक क्र. ६६/२०१३,दि. २७ फेब्रुवारी २०१३ नुसार असणे आवश्यक आहे.
२) दर सहा महिन्यांनी विद्यापीठास पदव्युत्तर संशोधन केंद्राचा अहवाल सादर करणे आवश्यक आहे.

अनु. क्र.	विषय	विद्याशाखा	शैक्षणिक वर्ष	कालावधी	नव्याने/नूतनीकरण
१.	पीएच.डी. इलेक्ट्रॉनीक्स ऑन्ड टेलिकम्युनिकेशन इंजिनिअरींग,	अभियांत्रिकी	२०१५—१६ ते २०१७—१८	३ वर्षे	नव्याने
२.	सिव्हील इंजिनिअरींग,				

तसेच पीएच.डी. मॅकॅनिकल इंजिनिअरींग या विषयातील पदव्युत्तर संशोधन केंद्रास परवानगी देण्यात येत नाही.
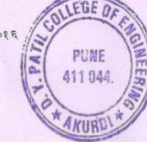कळावे,

D.Y.P.C.E.
Inward No. 4054
Date 10/8/16

आपला,

२२/०३/२०१६
उपकुलसचिव
(शैक्षणिक विभाग)

PRINCIPAL
D. Y. PATIL COLLEGE OF ENGG
AKURDI, PUNE-411044

D:\ mandlik \Research All File\Letter\Letter cont. 21-01-2016   ठराव क्र.:वि.प.३१/२०१६,दि. २१ जानेवारी २०१६

All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-India.org

F.No. Western/1-2809596022/2016/EOA   Date: 05-Apr-2016

To,

The Secretary,
Tech. & Higher Education Deptt.
Govt. of Maharashtra, Mantralaya,
Annexe Building, Mumbai-400032

Sub: Extension of approval for the academic year 2016-17

Ref: Application of the Institution for Extension of approval for the academic year 2016-17

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations 2012 notified by the Council vide notification number F-No.37-3/Legal/2012 dated 27/09/2012 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

Regional Office	Western	Application Id	1-2809596022
Name of the Institute	D.Y.PATIL COLLEGE OF ENGINEERING	Permanent Id	1-12346111
Name of the Society/Trust	DR.D.Y.PATIL PRATISHTHAN	Institute Address	SECTOR-29,NIGDI-PRADHIKARAN,AKURDI, PUNE-411044, PUNE, PUNE, Maharashtra, 411044
Institute Type	Unaided - Private	Society/Trust Address	2126 E, AJINKYA TARA, TARABAI PARK , KOLHAPUR,KOLHAPUR,KOLHAPUR,Maharashtra,4 16008

Opted for change from Women to Co-ed and Vice versa	No	Opted for change of name	No	Opted for change of site	No
Change from Women to Co-ed approved and Vice versa	Not Applicable	Change of name Approved	Not Applicable	Change of site Approved	Not Applicable

To conduct following courses with the intake indicated below for the academic year 2016-17

Application Id: 1-2809596022			Course	Full/Part Time	Affiliating Body	Intake 2015-16	Intake Approved for 2016-17	NRI Approval status	PIO / FN / Gulf quota Approval status	Foreign Collaboration/Twining Program Approval status
Program	Shift	Level								
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	COMMUNICATION NETWORKS	FULL TIME	University of Pune, Pune	18	18	NA	NA	NA

Application Number: 1-2809596022
Note: This is a Computer generated Report.No signature is required.

Printed By : AE3115781

Page 1 of 4
Letter Printed On:28 April 2016

D Y Patil College of Engineering, Akurdi, Pune-44   **355**

ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	COMPUTER SCIENCE	FULL TIME	University of Pune, Pune	25	25	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	CONSTRUCTION MANAGEMENT	FULL TIME	University of Pune, Pune	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	ENVIRONMENTAL ENGINEERING	FULL TIME	University of Pune, Pune	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	HEAT AND POWER	FULL TIME	University of Pune, Pune	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	MECHANICAL ENGINEERING DESIGN	FULL TIME	University of Pune, Pune	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	PRODUCTION ENGINEERING	FULL TIME	University of Pune, Pune	15	15	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	VLSI AND EMBEDDED SYSTEMS	FULL TIME	University of Pune, Pune	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	CIVIL ENGINEERING	FULL TIME	University of Pune, Pune	120	120	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	COMPUTER ENGINEERING	FULL TIME	University of Pune, Pune	120	120	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	ELECTRONICS AND TELECOMMUNICATIONS ENGINEERING	FULL TIME	University of Pune, Pune	120	120	NA	NA	NA

Application Number: 1-2809596022
Note: This is a Computer generated Report.No signature is required.

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ENGINEERIN G AND TECHNOLO GY	1st Shift	UND ER GRA DUA TE	INFORMATION TECHNOLOGY	FULL TIME	University of Pune, Pune	120	120	NA	NA	NA
ENGINEERIN G AND TECHNOLO GY	1st Shift	UND ER GRA DUA TE	INSTRUMENTA TION & CONTROL ENGINEERING	FULL TIME	University of Pune, Pune	60	60	NA	NA	NA
ENGINEERIN G AND TECHNOLO GY	1st Shift	UND ER GRA DUA TE	MECHANICAL ENGINEERING	FULL TIME	University of Pune, Pune	120	120	NA	NA	NA
ENGINEERIN G AND TECHNOLO GY	1st Shift	UND ER GRA DUA TE	PRODUCTION ENGINEERING (SANDWICH)	FULL TIME	University of Pune, Pune	60	60	NA	NA	NA
ENGINEERIN G AND TECHNOLO GY	2nd Shift	UND ER GRA DUA TE	CIVIL ENGINEERING	FULL TIME	University of Pune, Pune	60	60	NA	NA	NA
ENGINEERIN G AND TECHNOLO GY	2nd Shift	UND ER GRA DUA TE	MECHANICAL ENGINEERING	FULL TIME	University of Pune, Pune	60	60	NA	NA	NA

The above mentioned approval is subject to the condition that D.Y.PATIL COLLEGE OF ENGINEERING shall follow and adhere to the Regulations, guidelines and directions issued by AICTE from time to time and the undertaking / affidavit given by the institution along with the application submitted by the institution on portal.

In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

Strict compliance of Anti-Ragging Regulation:- Approval is subject to strict compliance of provisions made in AICTE Regulation notified vide F. No. 37-3/Legal/AICTE/2009 dated July 1, 2009 for Prevention and Prohibition of Ragging in Technical Institutions. In case Institution fails to take adequate steps to Prevent Ragging or fails to act in accordance with AICTE Regulation or fails to punish perpetrators or incidents of Ragging, it will be liable to take any action as defined under clause 9(4) of the said Regulation.

Note: Validity of the course details may be verified at www.aicte-india.org

Dr. Avinash S Pant
Vice - Chairman, AICTE

Copy to:

Application Number: 1-2809596022
Note: This is a Computer generated Report.No signature is required.

Page 3 of 4
Letter Printed On:28 April 2016

Printed By : AE3115781

1. **The Regional Officer,**
   All India Council for Technical Education
   Industrial Assurance Building
   2nd Floor, Nariman Road
   Mumbai - 400 020, Maharashtra

2. **The Director Of Technical Education,**
   Maharashtra

3. **The Registrar,**
   University of Pune, Pune

4. **The Principal / Director,**
   D.Y.PATIL COLLEGE OF ENGINEERING
   SECTOR-29,NIGDI-PRADHIKARAN,AKURDI, PUNE-411044,
   PUNE,PUNE,
   Maharashtra,411044

5. **The Secretary / Chairman,**
   DR.D.Y.PATIL PRATISHTHAN
   2126 E, AJINKYA TARA, TARABAI PARK , KOLHAPUR,
   KOLHAPUR,KOLHAPUR,
   Maharashtra,416006

6. **Guard File(AICTE)**

Application Number: 1-2809596022
Note: This is a Computer generated Report.No signature is required.

Printed By : AE3115781

Page 4 of 4
Letter Printed On:28 April 2016

NATIONAL BOARD OF ACCREDITATION

NBCC Place, East Tower, 4th Floor, Bhisham Pitamah Marg
Pragati Vihar, New Delhi-110 003
Tel: +91 11 2436 0620, 2436 0654 Telefax: +91 11 2436 0682

NBA
NATIONAL BOARD
of ACCREDITATION

File No.28-304/2010-NBA

Date: 16-08-2013

To

The Principal/Director
Dr. D.Y. Patil College of Engineering,
Sector No.29, Nigdi Pradhikaran,
Akurdi, Pune-411 044, M.S.

Sub: Accreditation status of programmes applied by Dr. D.Y. Patil College of Engineering, Sector No.29, Nigdi
Pradhikaran, Akurdi, Pune-411 044, M.S.

Dear Sir/ Madam

   This has reference to your application dated 30-11-2010 seeking accreditation of National Board of
Accreditation to various UG/PG Programmes offered by your institution.

2.   An Expert Committee conducted an on-site evaluation of the programmes during 28-12-2012 to
30-12-2012. The report submitted by the Expert Committee was considered by the Engineering Accreditation
Evaluation Committee (EAEC) at its meeting held on 15.02.2013. The Executive Committee of the National
Board of Accreditation considered the recommendations of EAEC at its meeting held on 05.08.2013. The
Executive Committee approved the accreditation status of the programmes as given in the table below:

Sl. No	Name of the Programme	Accreditation Status	Period of validity w.e.f. 05-08-2013	Remarks
(1)	(2)	(3)	(4)	(5)
1	UG- Instrumentation Engineering	Provisionally Accredited	2 Years	Accreditation Status granted is valid till the programme has the approval of the Competent Authority or the period given in Col. '4', whichever is earlier.
2	UG- Information Technology	Provisionally Accredited	2 Years	
3	UG- Production (Sandwich) Engineering	Provisionally Accredited	2 Years	
4	PG- Mechanical (Design) Engineering	*Not Accredited		
5	PG- Computer Science Engineering	*Not Accredited		
6	PG- Production (Manufacturing & Automation) Engineering	*Not Accredited		

*In all the PG Programmes; total marks obtained is less than the minimum required for accreditation.

3.   The accreditation status awarded to the programmes as indicated in the above table does not imply
that the accreditation has been granted to Dr. D.Y. Patil College of Engineering, Akurdi, Pune, M.S. as a whole.
As such the institution should nowhere alongwith its name including on its letter head etc., write that it is
accredited by NBA because it is programme accreditation and not institution accreditation. If such an
instance comes to NBA's notice, this will be viewed seriously. Complete name of the programme(s)
accredited, level of programmes (UG or PG as the case may be) and the period of validity of accreditation, as
well as the date from which the accreditation is effective, should be mentioned unambiguously whenever and
wherever it is required to indicate the status of accreditation by NBA.

4.   The accreditation status of the above programmes is subject to change on periodic review, if needed
by the NBA. It is desired that the relevant information in respect of accredited programmes as indicated in the
table in paragraph 2, appears on the website and information bulletin of your institution.

D.K-Palit

FIRST APPROVAL LETTER ②   ②
                                       ⑤

DIRECTORATE OF TECHNICAL EDUCATION
MAHARASHTRA STATE
3, MAHAPALIKA MARG, P.B.NO. 1967, BOMBAY 400 001.

No. 10 -TU-1084-11546(449)

Date: 19 JUN 1984

To
The President
Rameo A&K Education Society,
Oppsite Konkan Bhavan, C.B.D. Sector. 4.
New Bombay

Sub: Permission to start Polytechnic/
Engineering Colleges catering for
Degree/Diploma courses in Engineering/
Technology/Pharmacy on "NO GRANT BASIS"
Engineering College at Pimpri (Pune)

Sir,
        Ref. No. 10/TU/1053/11546 (449) dt. 14thmarch 84
With reference to Government letter, Education and
Employment Department No. PCC-1684-TE-1-A
dated 27thlch 84 addressed to you and copy endorsed to this
office on the subject mentioned above, you are hereby permitted
to start the Engineering College/Polytechnic/Pharmacy Institute
with 240 intake capacity catering for Degree/Diploma in
Engineering/Pharmacy from the academic session 1984-85

        The coursewise intake capacity and the tuition fees
per student, per year, per course are as under:-

Course   Intake   Tuition fee per
                                          student per year

1. Computer Technology   60   Rs. 6500/-Rs. six thousand five hundred only.
and science   (sixty)
2. Instrumentation   30   Rs. 6500/-Rs. six thousand five hundred only.
                          (thirty)
3. Power Electronics   60   Rs 6300/-Rs. six thousand three hundred only.
                          (sixty)
4. Architecture   30 (thirty)Rs. 4000/- Rs. four thousand only.
5. Mechanical/Industrial Engg 60 (sixty)Rs. 6300/-Rs. six thousand three hundd
        This permission is purely provisional and valid upto
July 85 and subject to the fulfillment of the conditions
laid down by Government of Maharashtra vide G.R. Education and
Employment No. TEM-3382/111830(190)/TE-1-AA dated 21.5.83 which
are accepted by you.

                                       PRINCIPAL
                    PRINCIPAL
               D Y. PATIL COLLEGE OF ENGG
                  AKURDI. PUNE-411 044

-2-

It is further informed that you should keep in Fixed Deposit of not less than 5 years period, the balance amount of Rs._____ . _____ (Rs._____ lacs) out of the total amount of bank deposit of Rs._____ (Rs._____ _____ . lacs) in the joint name of your Society and the Director of Technical Education, as mentioned below :-

Rs._____ . ____(Rs._____lacs) only on or before_____

Rs._____ . ____(Rs._____lacs) only on or before_____

You are NOT permitted to CHARGE the FEES other than permitted and only for the courses approved by this office.

Yours faithfully,

G.S.Kadu

(G.S.KADU)
Director of Technical Education
Maharashtra State, Bombay

(G. S. KADU)
Director of Technical Education
Maharashtra State, Bombay

Encl:

1) Rules of admission
11) Constitution of Governing Board and other Sub-Committees.
111) Government Resolution, Education & Employment Department No. GEC-4482-125101-(219)-TE-1A, dated 19th May, 1983.
iv) Recruitment Rules for staff
v) Copy of Agreement fulfillment.

Copy (with compliments) forwarded to the Vice-Chanceller, _____University,_____ _____ for information and necessary action.

Copy forwarded to the Chairman, Board of Technical Examinations, Maharashtra State, Bombay, for information and necessary action.

PRINCIPAL
D Y. PATIL COLLEGE OF ENGG
AKURDI-PUNE-411 044

No Objection Certificate
Annexure 3

Savitribai Phule Pune University
(Formerly University of Pune)

Telephone Nos. :
020 – 25691233
25601258
25601259
25601257

ACADEMIC SECTION
Ganeshkhind, Pune – 411007, IND
Telegraph : 'UNIPUNE'
Fax : 020-25691233
Website : www.unipune.ac.in
E-mail : dyracademic@unipune.ac

Ref. No. : CA/258

Date : 24 /03/2017

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Dr. D.Y.Patil Pratishthan's D.Y.Patil College of Engineering, Sector No. 29, Nigdi Pradhikaran, Akurdi, Pune 411 044 is affiliated to the Savitribai Phule Pune University, since 1984 (PU/PN/Engg/055/1984) and the following courses are taught in the said college as per approval.

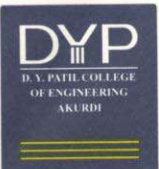| Courses **Under Graduate**	Duration of the Course	Affiliation (Permanent / Temporary)	Validity Period
Computer Engineering	4 Year	Temporary	Upto 2016-17
Information Technology	4 Year	Temporary	Upto 2016-17
Electronics and Telecommunication Engineering	4 Year	Temporary	Upto 2016-17
Instrumentation and Control Engineering	4 Year	Temporary	Upto 2016-17
Mechanical Engineering	4 Year	Temporary	Upto 2016-17
Mechanical Engineering (Second Shift)	4 Year	Temporary	Upto 2016-17
Production Sandwitch	4 Year	Temporary	Upto 2016-17
Civil Engineering	4 Year	Temporary	Upto 2016-17
Civil Engineering (Second Shift)	4 Year	Temporary	Upto 2016-17

P.T.O.

Courses Post Graduate	Duration of the Course	Affiliation (Permanent / Temporary)	Validity Period
Electronics (Embedded Systems & VLSI Design)	2 Year	Temporary	Upto 2016-17
Production Engineering	2 Year	Temporary	Upto 2016-17
Computer Engineering (Computer Network)	2 Year	Temporary	Upto 2016-17
Mechanical Engineering (Heat Power)	2 Year	Temporary	Upto 2016-17
Mechanical Engineering (Design)	2 Year	Temporary	Upto 2016-17
Civil (Construction Management)	2 Year	Temporary	Upto 2016-17
Electronics and Telecommunication (Communication Networking)	2 Year	Temporary	Upto 2016-17
Civil (Environmental Engineering)	2 Year	Temporary	Upto 2016-17

The said certificate is issued as per the request application received from the Principal of the college Ref. No. DYPCE/Est/8864, dated 23/03/2017 so as to submit it to the National Assessment and Accreditation Council (NAAC), Banglore.

Dy. Registrar
(Academic Section)

Certificate of Compliance
Annexure 4

D. Y. PATIL COLLEGE OF ENGINEERING

Approved by All India Council of Technical Education, New Delhi

Affiliated to University of Pune, Identification No. PU/PN/EnGG/055 (1984)

Sector No. 29, Nigdi, Pradhikaran, Akurdi, Pune - 411 044. Tel. : (020) 27653054 / 58, Fax : (020) 27653057

Website : http://dypcoeakurdi.ac.in   E-mail : principal@dypcoe-akurdi.org

"30th Year of Excellence in Engineering Education"

Padmashree Dr. D. Y. Patil M. A., L.L.B., Ph. D.

Founder President

Dr. Sanjay D. Patil
President

Shri Satej D. Patil
(M.L.C.), Ex State Home Minister, Maharashtra

Ref. No. : DYPCE/Est/8863
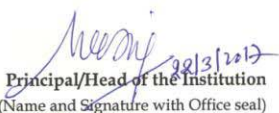
Date : 23/3/2017

Certificate of Compliance

This is to certify that D. Y. Patil College of Engineering, Akurdi, Pune fulfils all norms

1. Stipulated by the Savitribai Phule Pune University.
2. UGC and AICTE
3. The affiliation and recognition 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.

Date: 23/3/17
Place: Pune

Principal/Head of the Institution
(Name and Signature with Office seal)