2020-21

Semester Long Internship

M.C.A.

Ph.D

M.Tech.

B.Tech.

Bharatiya Vidya Bhavan's

SARDAR PATEL INSTITUTE OF TECHNOLOGY

(Autonomous Institute Affiliated to University of Mumbai)

आ नो भद्रा : क्रतवो यन्तु विश्वत :।

Let noble thoughts come to us from every side

The Heritage - Beliefs and Values

“Education would fail ignominiously in its objective, if it manufactures only a robot . . . . A university cannot afford to ignore the cultural aspects of education whatever studies it specializes in. Science is a means, not an end. Whereas culture is an end in itself. Even though you may ultimately become a scientist, a doctor, or an engineer, you must while in college, absorb fundamental values which will make you a man of culture. An engineer has not merely to build bridges; he has to be a devoted husband, a kind father, a friendly neighbor, a dutiful citizen, and a man true to himself. He will have trials and tribulations; his heart will fail him at times; he will then need the strength which true culture alone can give.”

- Kulpati Dr. K. M. Munshi

Vision

Bharatiya Vidya Bhavan prides itself in following the beliefs and values upheld by the founder members and the management.

" To build a renowned institute which will produce graduate engineers with global competency and social sensitivity."

Our Mission

- Provide high quality education in engineering and technology promoting the Indian Values and Ethos that will prepare the participants to lead lives of personal integrity and civic responsibility in a global society .
- Promote an Educational Environment that combines academic study with the excitement of intellectual curiosity for engineers of tomorrow.
- Enhance career opportunities for students through Industry-Institute interaction, value-added courses and projects in cutting edge technology.
- Inculcate Entrepreneurial mindset in students to make them job creators.
- Focus on applied research to create next generation technologies.

Contents

Prologue

Keeping in view the growing needs of industry and society, we are committed to creating an environment, within the heart of metropolitan Mumbai, which will raise the intellectual and moral standards of our students. Our endeavor is to strive for the overall development of students, thereby enabling them to accept challenges.

A leading Engineering Institute

We are Sardar Patel Institute of Technology, a leading engineering college in the heart of India's financial centre of Mumbai. With consistent efforts, we have grown over the years to be recognized as one of the best institutes for aspiring engineers.

We are a part of the Bharatiya Vidya Bhavan and function as an autonomous Institute with entrepreneurial agility. We strive to influence, practice and promote value-based growth. We build on this mission through pedagogic innovations and pioneering programmes, which have helped us stand out for our unique and distinctive path in engineering education.

S.P.I.T. Milestones

19th August 1962
SPCE was inaugurated

1995
SPCE (unaided wing) with Electronics Engg., Computer Engg., Information Technology Engg., was added

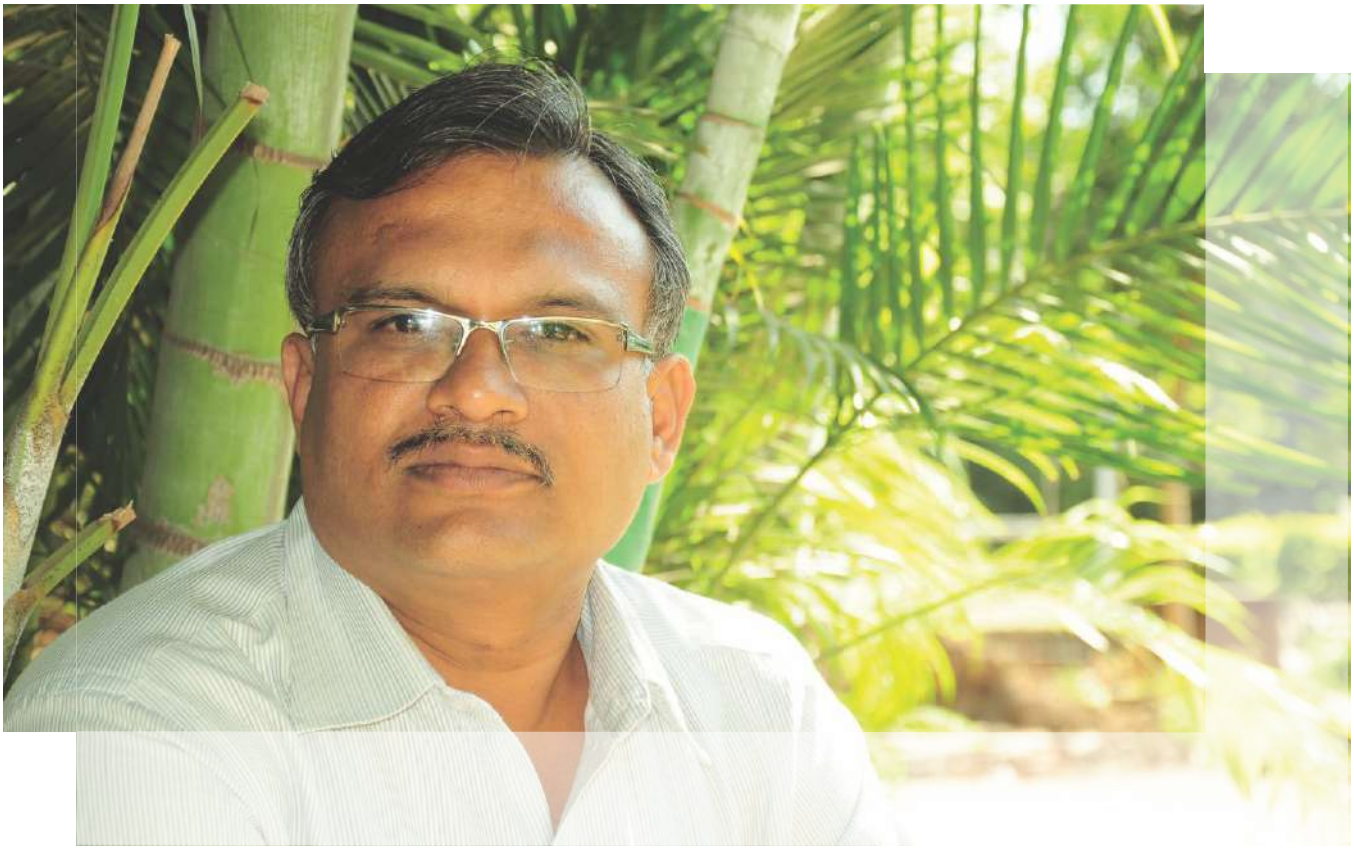
2005
Bharatiya Vidya Bhavan's Sardar Patel College of Engineering (Unaided Wing) was established in its new building under the name and style of **Bharatiya Vidya Bhavan's Sardar Patel Institute of Technology**, affiliated to University of Mumbai

Over the years
Masters Degree and Ph.D Degree courses were added

2017
Became an **Autonomous Institute**, affiliated to University of Mumbai

2020
Secured an envious **NIRF ranking of 125** in India

From the **Principal's Desk**



I have great pleasure in expressing my thoughts as the Principal of Sardar Patel Institute of Technology (S.P.I.T.), the Numero Uno, self-financed, autonomous Institution of Maharashtra. We are a constituent of Bharatiya Vidya Bhavan, not just a conglomeration of more than 300 institutions, but a culture, a saga, a holy journey, started by Dr. K.M. Munshi with the support of Mahatma Gandhi in 1938. Imparting value-based education with Indian cultural ethos has always been the motto of Bhavan.

Engineers & technologists form the backbone of any nation's economic development. The world is presently undergoing very unprecedented, extraordinary, challenging time. A new normal is anticipated in many walks of life, including education. Such disruptions will come again and again in one or the other form. Engineers will work for 40-50 years of their life, they will have 3 to 4 diversified careers in technologies we are even unaware of. **To make aspiring minds confident and future-proof, education must prepare them for a "marathon" rather than a "sprint".** S.P.I.T. makes continuous, sincere efforts towards this.

We focus on "How to learn?" rather than "What to learn?". We believe in multi disciplinary exposure to the learners, yet ensuring growth in one vertical, cherishing human sensitivity and empathy. We have thoughtfully articulated a unique academic model towards this. Our splendid academic performance, sparkling placements (quantitative and qualitative), enrollment for higher studies at the best places of the world, prizes won by our students in national/international level technical competitions, in past many years are the true testimonials for this.

With the support of a dedicated and hardworking faculty and staff, the institute has achieved enviable visibility and ranking in a short span. On behalf of all stakeholders of S.P.I.T., I welcome you to this family and look forward to your valuable association with us for a better tomorrow. Four years of engineering education at Sardar Patel Institute of Technology or two years post-graduation, will undoubtedly empower you to lead a successful life.

Let's grow together...

Dr. Bhalchandra Chaudhari
Principal, Sardar Patel Institute of Technology

Why do Students **Choose S.P.I.T.?**

Strong Reputation

S.P.I.T. Ranked at 125th Position by National Institutional Ranking Framework (NIRF-2020), Govt. of India. NIRF has been accepted by MHRD and outlines a methodology to rank institutions across the country. The parameters are - Teaching Learning & Resources, Research & professional practice, Graduation Outcome, Outreach & Inclusivity, and Perception.

Curriculum

New and updated curriculum under autonomy provides flexibility for Semester Long Internships. The new curriculum caters to industry expectations in India and the world. This ensures students learn state of the art technologies and are therefore easily absorbed in the industry. The syllabus also offers students to complete a six month internship, even before graduating. This gives students industry experience, along with theoretical learning in classrooms.

Placement

Excellent Placement. with super dream companies like Amazon and Microsoft, recruiting students. S.P.I.T. is proud to have the best placement in Mumbai, after IIT Bombay. S.P.I.T. has been consistently achieving 100% placement since the last few years and the average package for the last placement round was 10.5 lacs, the highest being 42 lacs. This is commendable considering the average package in India for placements for engineering graduates is 4.5 lacs.

Finest Professors

Faculty members are well experienced in their respective domains and consistently make efforts to stay updated. The college also deputes the faculty members to Faculty Development Programmes, Short Term Training Programmes and developmental programmes to ensure continuous up gradation. Many faculty members are also actively engaged in research work. Several faculty members regularly publish papers and research articles in leading journals nationally and internationally.

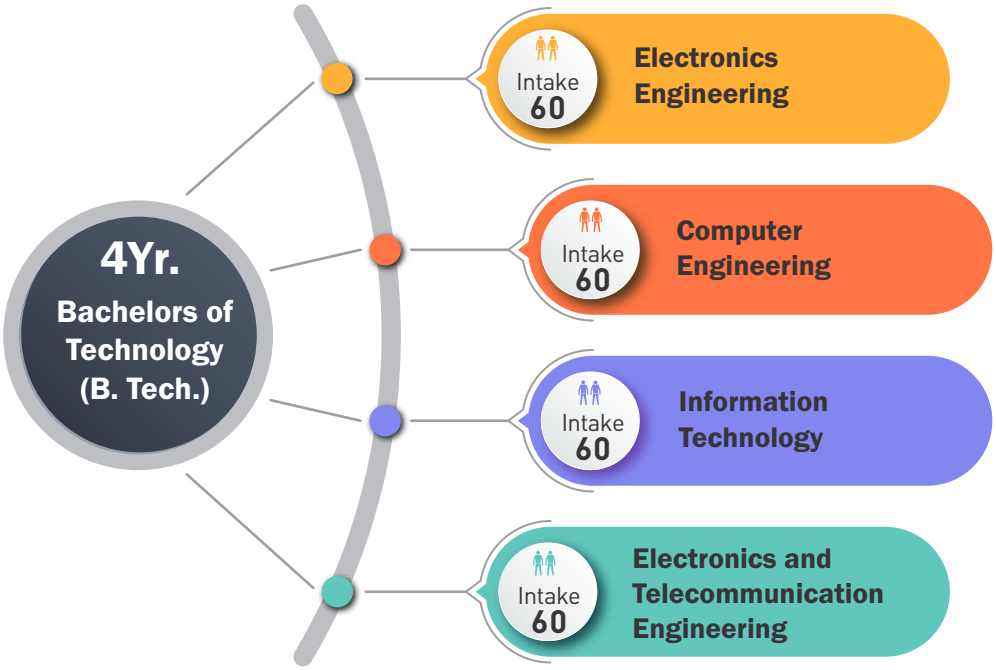
Well Equipped Laboratories

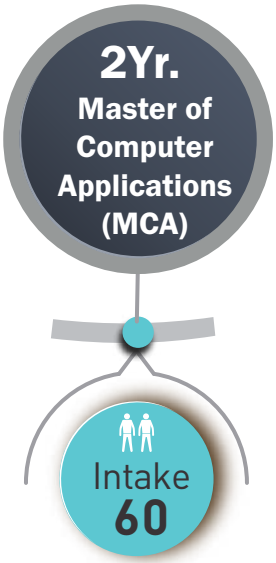
24X7 Lab facilities available for students for experimentation and research with upgraded tools. The college extends its laboratory facilities to students beyond college hours. Students are free to use the resources for their own research work or practice related to the theory taught in classrooms. The labs also boast of upgraded tools and resources to enable students to pursue any experiment without any limitations.

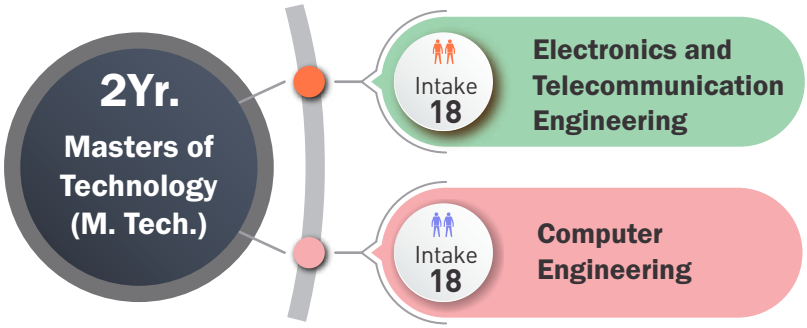
Multi disciplinary Experience

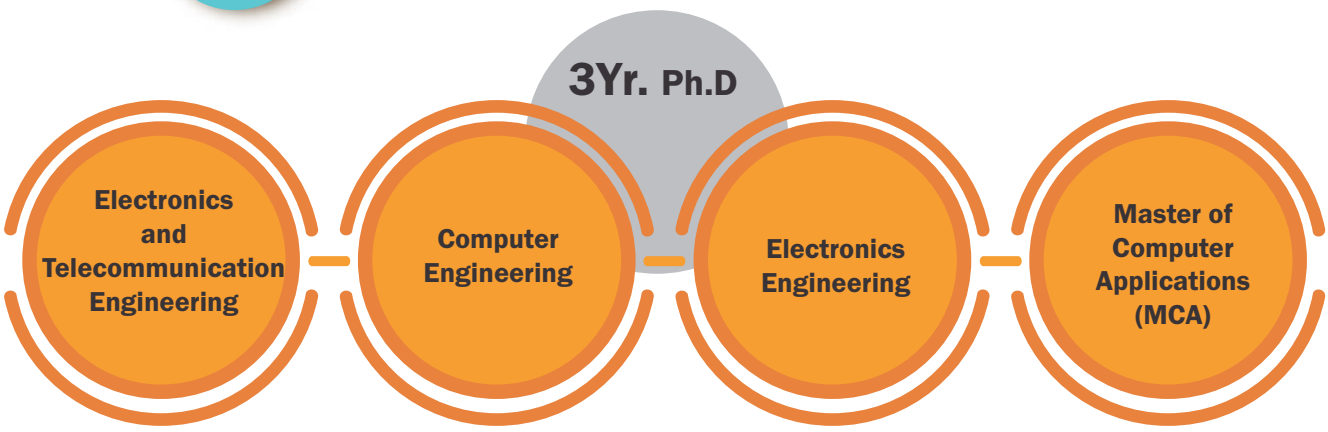
Students are exposed to global experience with elective courses conducted by multinational conglomerates, which also guides them towards industry expectations and enables them to perform well in placements and be generally successful in their careers compared to their peers from other institutions.

Courses Offered







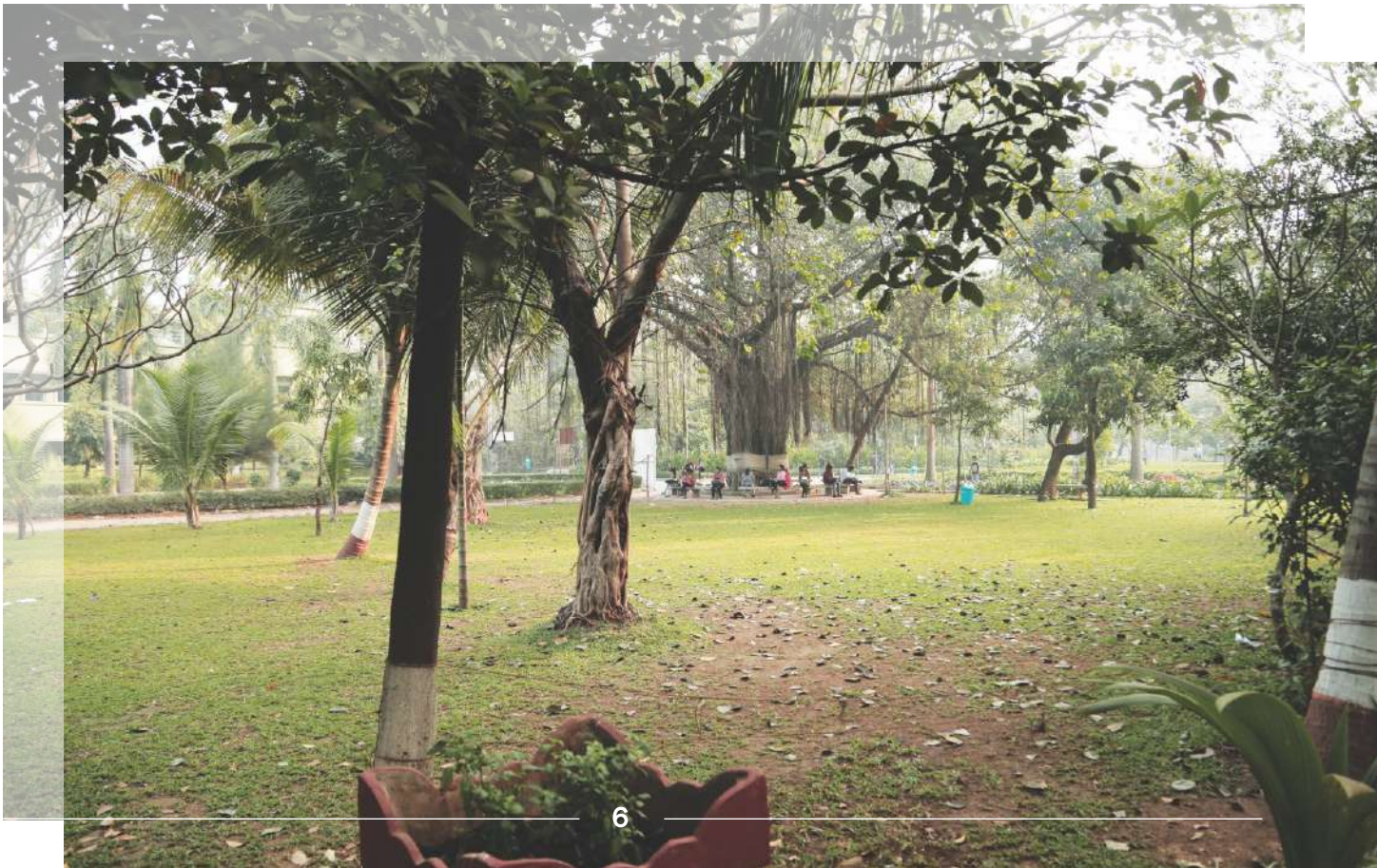


"To give real service, you must add something which cannot be bought or measured with money" - Mokshagundam Visvesvarayya

Campus **Infrastructure**

The institute is located in 47 acres of green campus at Andheri (W), the most populous suburb of Mumbai. The campus also houses four Bhavan's Institutions of great repute namely Bhavan's College (the arts, commerce and science college), Sardar Patel College of Engineering, (Government aided Engineering college) S.P. Jain Institute of Management & Research and A. H. Wadia, higher secondary school.

The Bharatiya Vidya Bhavan's campus houses an auditorium, an open-air amphitheater, a botanical garden, a nature park and huge grounds for sports – providing ideal venues for a myriad range of cultural, sports and extra-mural activities.



Resources

The institute believes that a great deal of attention on resources provided is a must to achieve world class standards in engineering education. Resources can also act as a catalyst in supporting quality research and development in the industry. It therefore has the capability of contributing towards the scientific and economic progress of the country.

The well-equipped Library

The Central Library of S.P.I.T. is well-managed in 500 sq. meter Area, and acts as the knowledge hub of the institute. It has good quality of information resources related to engineering and technology field. It identifies, evaluates, and procures, processes then make resources available to faculty, students, and researchers to support teaching, learning and research activities of the institute.

The library is subscribing to IEL Online, ACM Digital Library and Manupatra Legal Database. It is a member of National Digital Library. NPTEL online lectures by eminent personalities of various IITs are made available to users in Library. An On-line Public Access Catalogue (OPAC) is available on Intranet for searching library books, number of copies and other details.

The Library has institutional repository in Dspace Open Source Software which includes Student and staff publications, Question Papers Syllabus, Project Reports, Events, Institute Magazine etc

The Library provides Book Bank facility to economically backward students and to three top ranking students of all branches Engineering and MCA as well. The library also provides 20% Book Bank facility in which on payment of 20% of the cost of the book, it can be issued for a till the end of semester examination.

Internet connectivity is available through a network in the Library. Library is Wi-Fi enabled also. SPIT Library is open to other academic users for reference.

The library boasts of a collection of

23,000 print books

8,000 e-books

Subscribing Periodicals, on-line Courses and Journals

60 National

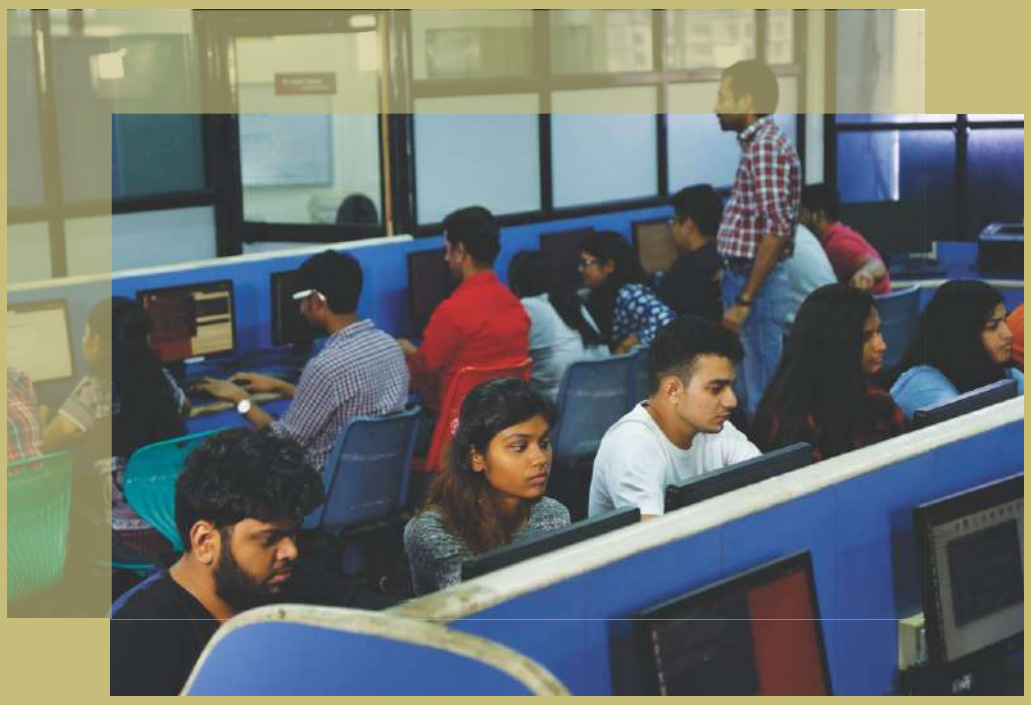
246 International

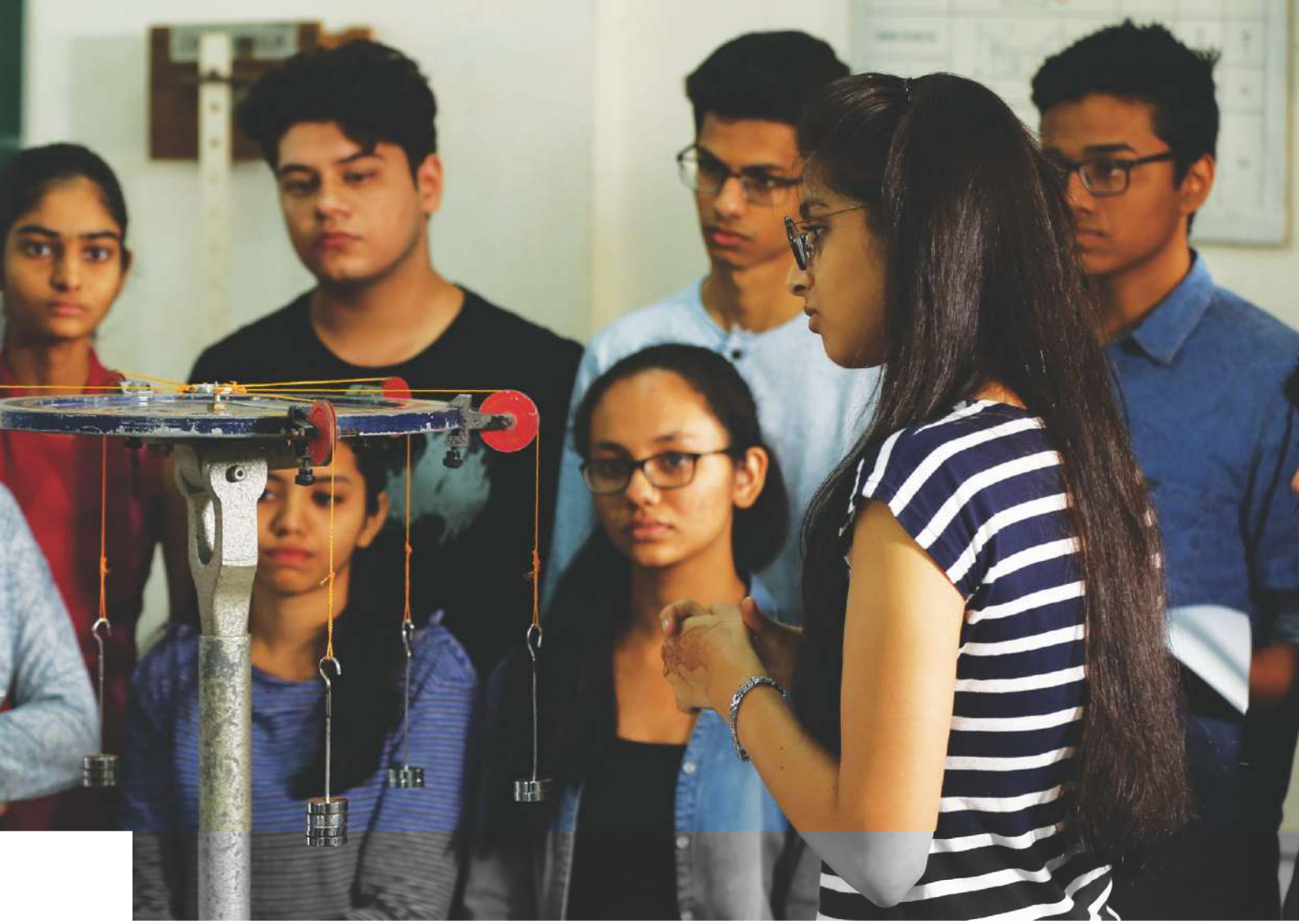
Central Computing Facilities

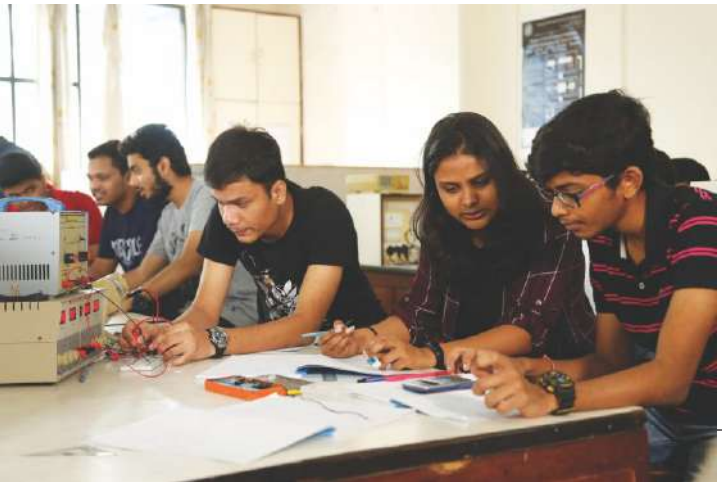
The Central computing facility is open for all students. Each department has its own specialized laboratories for software development activities in various disciplines. 'Business India' a weekly magazine made a special mention of our state-of-the art Linux lab. The total number of nodes in the college is 600+ and is still growing, with Internet connectivity for every node.

Modern and Well-equipped Classrooms

For proper teaching-learning environment, a well-equipped classroom is of utmost importance. For this reason, every classroom at Sardar Patel Institute of Technology is air-conditioned and installed with an overhead projector. Each classroom has wireless and wired internet connectivity. The college also equips itself with Audio-Visual technology so that students learn through all of their senses for proper retainment.







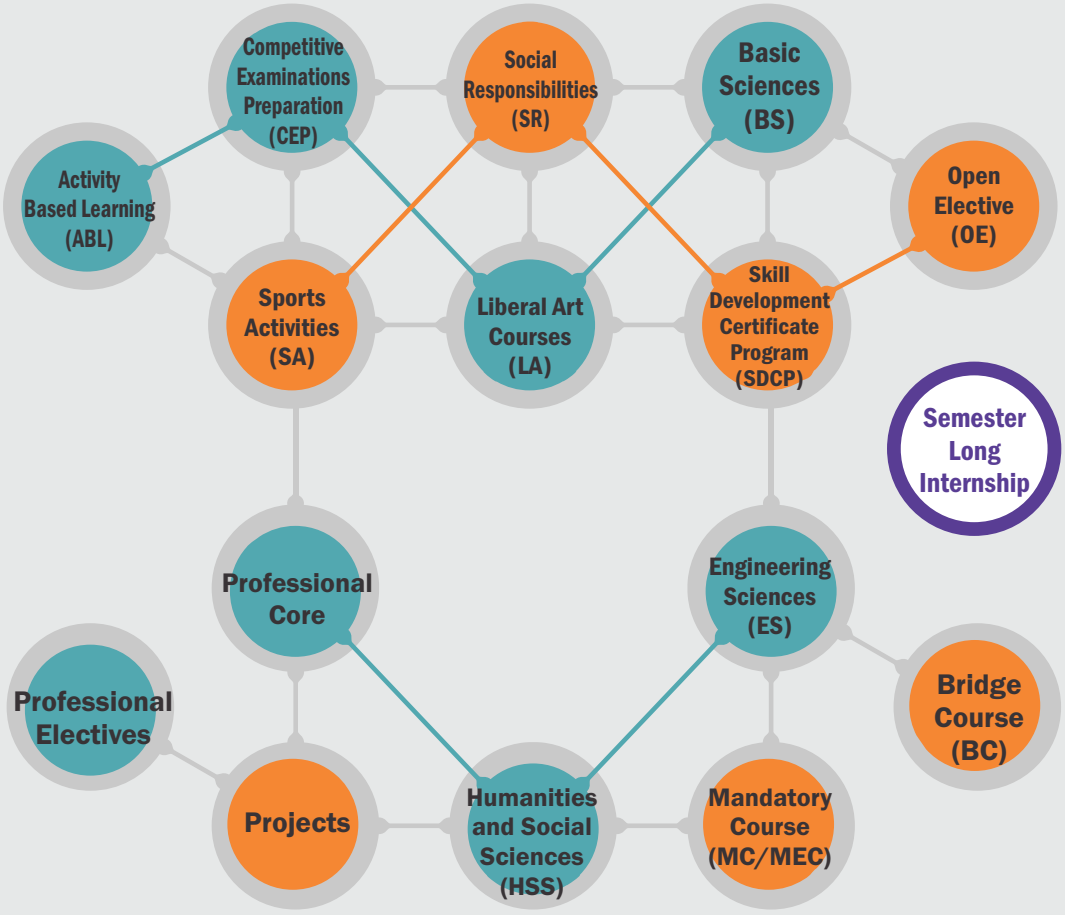
The well-stocked Laboratory

Engineering education is incomplete without laboratory sessions. To ensure satisfactory laboratory experience, the institution makes an effort to provide students with a well-stocked laboratory so that they have hands on experience with the apparatus that they study about in their books. It also enables students to explore beyond their syllabus and experiment in the fields of science and technology.

The **Pedagogy**

Our new, revised curriculum after attaining autonomy, focuses more on practical learning along with strong theoretical understanding.

Salient Features of New Curriculum



SCOPE - Skill Certification for Outcome-based Professional Education

Beyond the Classroom

SCOPE - Skill Certification for Outcome based Professional Education is an initiative by S.P.I.T., that is fully supported and executed by the industry. through this initiative, we offer 40 hours of hands on training, courses and certifications in various technologies.

ABL - Activitiy Based Learning is an initiative by S.P.I.T. to help students improve their interpersonal skills and emotional intelligence. Students have activities on design thinking, emotional intelligence, work ethics, legal studies, fire and industrial safety, patent drafting, financial planning, etc. To make learning fun, students are expected to perform various activities such as skits, negotiations, presentations, etc.

SEVA - For Social Education through Various Activities, S.P.I.T., engages its students in volunteering for Mumbai Fire Brigade, assisting schools in strengthening laboratories by developing experimental setups, etc., educating economically lacking kids, volunteering during national calamities like earthquake, floods, etc., planting and maintaining trees, contribution to Swachh Bharat Abhiyan or Digital India, participating in field visits and carrying out scientific case studies on the same, participating in conducting case studies on Indian culture and issues thereof, conducting voluntary lectures in village schools, assisting Fire and Security Association of India (FSAI), supporting NGOs like Make a Difference (MAD), participating in causes like Rally for Rivers (RFR), etc.

Activities in Slum Area

Ecell Bag Making Activity

ABL Creative Thinking

Social Work

Ecell Food Challenge Activity

ABL Dramatics

Department of **Electronics Engineering**

Established in 1995, the vision of the Department of Electronics Engineering is to create professionally competent engineers, researchers and entrepreneurs in the field of electronics engineering for the benefit of society. To achieve this vision, the department is on an eternal mission of imparting quality engineering education according to the needs of the industry, to motivate students in undertaking research on next generation technology, and to create an environment that can foster growth of professionals capable of effectively using scientific and technical knowledge for the betterment of humankind.

VISION:

To be leader in engineering education by providing training to the students to become competent engineers, researchers or entrepreneurs to realize product oriented innovative ideas with focus on enhancing the quality of life.

MISSION:

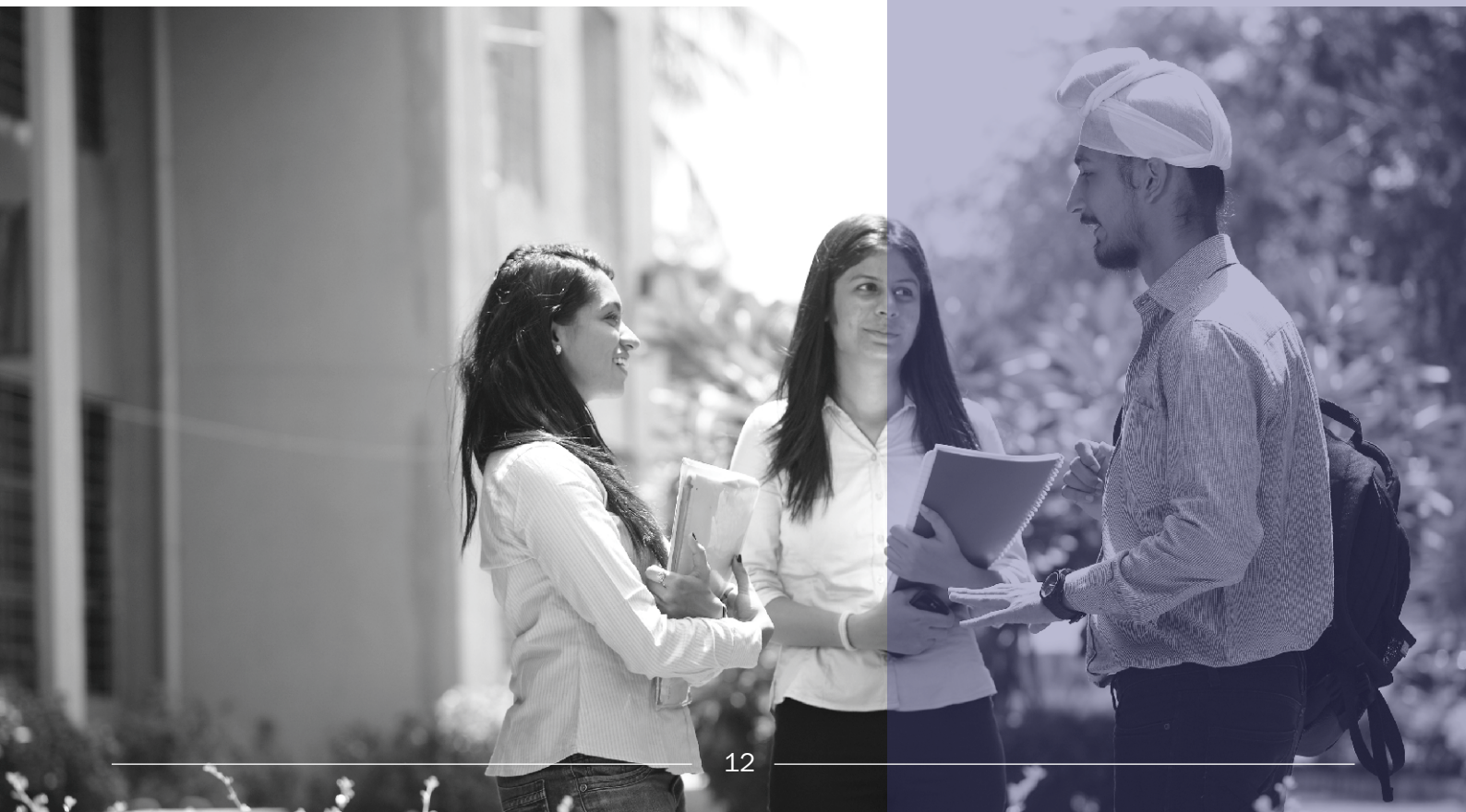
- To impart quality engineering education as per the industry need
- To motivate students to undertake research on next generation technologies
- To create an environment that shall foster growth of professionals capable of effectively using the scientific and technical knowledge for the betterment of mankind

Infrastructure:

1. Basic Electrical & Electronics Lab
2. VLSI and Embedded Systems Lab
3. Digital Signal Processing & Image Processing Lab
4. Electronic Instrumentation & Robotics Lab
5. Analog Circuit Lab
6. Electronics Workshop Lab
7. Microprocessor Lab
8. Digital Design Lab
9. Electronics Devices and Circuits Lab

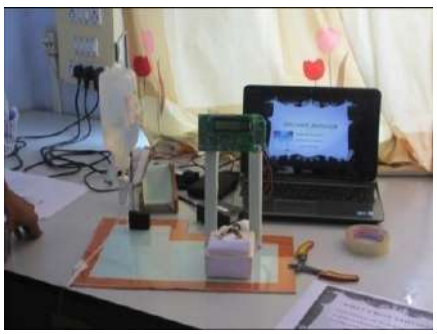
Highlights:

1. Center for Research in Neuromorphic Engineering (CRINE)
2. Skill Development Program (SDP)
3. Electronics Students Association (ESA)
4. Electroworks
5. ROBOCON



Events, Guest Lectures & Achievements

- Troubleshooting Competition
- Innovation Competition
- FDPs and Training Programme: Front End VLSI Design and Verification
- Trek to Matheran
- Igatpuri Trip
- Guest Lecture: State Space Analysis and Advances in Control System
- ICT Enabled and Flip Classroom



Competitions

Mitsubishi Electric FA Cup	NBF Tech challenge	Arm Design Challenge
		
ABU Robocon	**Texas Instruments IICDC 2018-19 Winners**	**TCS ENGINX IOT Challenge**
		
Trouble Shooting Competition	**Innovatron**	**Technical Paper Presentation Contest**
		

Sponsored Projects and Grants

Title	Sponsoring/Funding Agency	Year
• Universal MODBUS Data Logger	Mumbai University	2018-19
• Design, Development and Automation of Bio-Sand Filter	Mumbai University	2018-19
• Front End VLSI Design and Testing	AICTE	2018-19
• Design and development of 24V/15A DC Motor PWM Drive for PMDC OR Shunt DC Motor	Hardcarb Technologies Pvt. Ltd.	2018-19
• Design and development of Digital Controller for Induction Casting Machine	Riddhi-Heatron	2018-19
• Design implementation and testing of a DC to DC converter for ancillaries and charging batteries	General Auto Electric Corporation	2018-19
• LabVIEW Based automatic data acquisition system for detection of type of Tumor cells using Electrical Impedance Tomography	Mumbai University	2019-20
• Metamaterial Based Dual-band MIMO Antenna with High Isolation	TEQIP-III, SPCE	2019-20
• Design of IOT enabled multi-parameter measurement system for water quality monitoring	Mumbai University	2019-20
• Consumer Electronic Product Design, Testing, Reliability and Patenting	AICTE	2019-20
• Design of Umbrella Dryer	Mumbai University	2019-20
• IoT enabled Low Cost and Low Power Sensor for Natural Frequency Testing of Bridge	Femstruct Consulting Engineers	2019-20
• Gimbal Control for Directing Cinematographic Buggy	Quidich Innovations Lab Pvt. Ltd.	2019-20
• Buggy Construction for Directing Cinematographic Buggy	Quidich Innovations Lab Pvt. Ltd.	2019-20

Department of **Computer Engineering**

Established in 1995, the Department of Computer Engineering is committed to creating a conducive environment for the overall growth of aspiring computer engineers. The focus of the department lies mainly on research and industry interaction, thus enabling students in gaining treasured experience in both aspects of their future professional life by carrying out sponsored research projects and consultancy activities. The department also offers Post graduate program, M.Tech in Computer Engineering since 2011 and Ph.D. (Technology) in Computer Engineering affiliated to University of Mumbai since 2012-13.

VISION:

To build strong teaching and research environment to provide quality education in Computer Engineering.

MISSION:

- To serve society by producing globally competent computer professionals
- To foster relationships with leading institutes as well as industries to inculcate the spirit of cooperative and collaborative learning

Infrastructure:

1. Project Lab
2. Networking Lab
3. Algorithms Lab
4. Database Systems Lab
5. Computer Graphics & Multimedia Lab
6. System Programming Lab
7. Post Graduate Research Lab
8. IIC Cell
9. Computing Centre

Highlights:

1. Highly Qualified & Skilled Faculty
2. Industry Institute Interaction Cell
3. Forum for Aspiring Computer Engineers
4. Research Centric Environment in the Department

Events, Guest Lectures & Achievements

- Seminar – Use of Artificial Intelligence in Medicine
- Guest Lecture – Field Programmable Gate Array & Complex Programmable Logic Devices
- Guest Lecture – Git and its uses
- Guest Lecture – AI and Machine Learning
- FDP – Big Data, IoT and Machine Learning

Department of **Information Technology Engineering**

The Department of Information Technology was established in 1998. Since then, the department has been consistently imparting quality education by reviewing curricula in a timely basis. It also implements effective teaching – learning methodologies and offers laboratories with state-of-the-art computing facilities. The department promotes active industry – institute collaboration by carrying out sponsored research projects and consultancy activities.

VISION:

To produce globally competent, social and ethical practicing graduates adapting technological changes to solve contemporary issues.

MISSION:

- Collaborate with global professional bodies for recognition.
- Work with local NGOs to do social service.
- Design curriculum to inculcate ethical practices in technological and behavioral aspects.
- Industry collaboration to keep abreast of technology.
- Engage with stakeholders to understand contemporary issues and propose technical solutions.

Infrastructure:

1. Computer Network Lab
2. Database Management System Lab
3. Software Engineering Lab
4. Operating System Lab
5. Multimedia Lab
6. Programming Lab
7. Research and Development Lab
8. Cloud Computing Lab

Highlights:

1. Well equipped laboratories.
2. Highly skilled and qualified faculties.
2. Strong focus on FOSS (Free and Open Source Software)
3. Forum of Information Technology students Association (ITSA)

Events, Guest Lectures & Achievements

- **Student Achievement:** A team of final year students secured 1st place in National Business Plan competition of India.
- Final year students got placed in top IT companies like Google and Microsoft.
- Expert talk by Mr. Sidharth Shah on "Recent trends in Data Structures"
- **Workshop:** 'C' Programming workshop for first year students.

Department of **Electronics & Telecommunication Engineering**

The Department of Electronics and Telecommunication Engineering was established in 2005, with a dream to impart both knowledge and skills and help them gain expertise in various areas in the domain. This dream achieved a new pedestal in 2010 when the first batch of students of masters in EXTC Engineering started its academic career. The department is currently scaling new heights with the launch of a Ph.D program since 2012.

VISION:

To produce Telecommunication Engineers capable of effectively using the scientific and technical knowledge for the betterment of society.

MISSION:

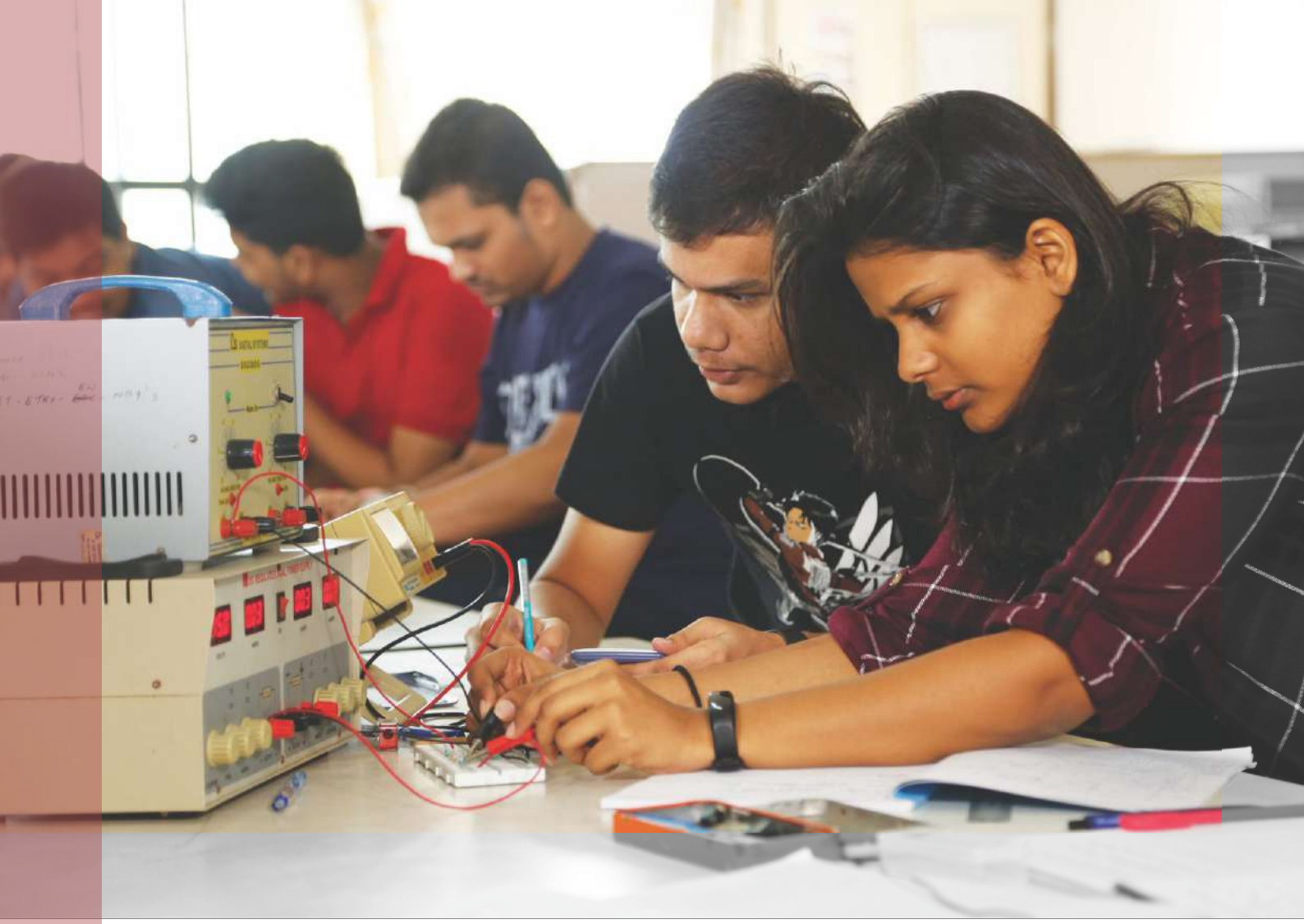
1. Provide **high-quality teaching, state-of-the-art research** and creative activity to acquire innovation and next generation technologies.
2. **Develop** educational and career goals, decision-making skills and job search strategies needed to manage their professional and academic pursuits.
3. **Promote interaction** and exchange **with industry** and other institutions of higher learning.

Infrastructure:

1. Analog Communication Lab
2. T.V. and Antenna Lab
3. Electrical Networks and R.F.C.D. Lab
4. Digital Communication Lab
5. Microwave and Fiber Optic Lab
6. Wireless Communication and Project Lab
7. C.C.N. Lab
8. Department Library

Highlights:

1. Value added courses, certificate courses and MoUs with reputed organizations
2. Highly skilled faculty
3. Forum of Electronics and Telecommunication Students (FETS)



Events, Guest Lectures & Achievements

- E-Yantra Covid19 Hackathon
- India Innovation Challenge Design Contest 2019
- Eyantra Robotics Challenge
- Texas Instruments IICDC 2019-20
- Deloitte TechnoUtsav 3.0
- Advanced Computing and Communications Society (ACCS) Design Challenge
- Artificial Intelligence and Deep learning hackathon
- India Innovation Challenge Design Contest (IICDC) 2019.
- **Guest Lecture:** Digital Forensics

Competitions

Mitsubhishi Electric Cup

Research paper Presentation - Best Paper Award

KPMG Ideation Challenge

E-Summit

Sponsored Projects and Grants

Title	Sponsoring/ Funding Agency	Year
• Design and Development of Digital Controller for Induction Casting Machine	Riddhi Heatron	2018-19
• Development of Software Applications to Maintain Service Calls and manage the service tickets/tokens	Suyog Telematics Mumbai	2018-19
• Automative Battery Management System	Zeuva Automotive Pvt. Ltd.	2018-19
• Design and Development of a 24V/15A DC Motor PWM drive for PMDC OR shunt DC Motor	Hardcarb Tech Pvt. Ltd.	2018-19
• Design and Development off Battery Charging System of 4.5 KW capacity	General Auto Electronic Corporation	2018-19
• Design and Development of Universal Controller for Solar Water Pumping	Sileaf Technologies Pvt. Ltd.	2018-19
• Image Processing for facial and emotion recognition and developing models to analyze and predict driver behavior	Mumbai University	2018-19
• Implementation of maximum power point tracker in solar system	Mumbai University	2018-19
• PRIMA: Product for Instant Malaria Assessment	Mumbai University	2019-20
• Study of Electromagnetic Radiations in urban areas and its health hazards	Mumbai University	2019-20
• Autonomous Package Dispatcher Bot using Video Processing	Mumbai University	2019-20

Department of **Applied Sciences and Humanities**

The Department of Applied Sciences and Humanities equips the students of first year engineering, across all branches with fundamentals in applied sciences, basic engineering and subjects in the domain of humanities. The curricula of the department, has been totally redesigned, under autonomy, to suit the requirement of the programmes that we offer. At the same time, it also orients the students to the needs and demands of the engineering course and helps them cope with the hectic schedule by creating a student friendly and conducive atmosphere.

DEPARTMENT OBJECTIVES

- To strengthen the fundamentals in Applied Sciences, Mathematics and Basic Engineering.
- To develop the ability to communicate effectively as technical professionals.
- To provide an environment for working effectively in groups.
- To sensitise students to environmental and ethical issues.
- To create a good base for further engineering education.

Infrastructure:

1. Applied Physics Lab
2. Applied Chemistry Lab
3. Language Lab
4. AutoCAD Lab
5. Engineering Workshop
6. Programming Lab

Highlights:

1. Induction Programme
2. Lifeskill courses in Curriculum
3. Activity Based Learning
4. Programming courses like Python, Computational Mathematics, 3-D printing and AutoCAD
5. Remedial Coaching
6. Innovative Teaching Learning using ICT
7. Mentoring Programme for each student
8. Entrepreneurship Cell Activities

Events, Guest Lectures & Achievements

- **WorkShops :** Design Thinking
- 3-D printing
- **Field visit:** Chatrapati Shivaji Maharaj Vastu Sanghralaya
- **Guest Lectures :** Motivational Talks,
- Bhavan's Philosophy
- Indian Classical Dance
- Stress Management through Ved Vedant
- Gender Sensitisation
- **Activities:** Plantation Drive
- Single Use Plastic Waste collection drive

Department of **Masters in Computer Applications**

Master of Computer Applications(MCA) is a full time two years Autonomous Post Graduate Programme designed to meet the demand in the field of IT Industry with an intake of 60 seats. S.P.I.T. has been one of the sought colleges by students for MCA and is renowned for its exponential growth. Even though starting in year 2009 it has managed to excel quickly and with the highest cutoff this year it has shown a growth among the students all over.

VISION

To create a center of excellence which will produce cutting edge technologists to cater the needs of the Business and Society.

MISSION

- To provide high quality education.
- To train the students to excel in cutting edge technologies that makes them Industry ready.
- To inculcate ethical and professional values in students for betterment of society.
- To inculcate Entrepreneurial mindset in students to make them job creators.

Infrastructure:

1. Database and Networking Lab
2. Operating System & Programming Tech Lab

a. Object Oriented Programming
b. Operating System
c. Introduction to Web Technology
d. Advanced Web Technologies
e. Data Structures
f. Core and Advanced Java

3. Operating System & Programming Tech Lab

a. Software Engineering
b. Software Testing
c. Unified Modeling Language
d. Image Processing

Highlights:

1. Best MCA Placement Record in the Maharashtra
2. Six Months Industry Internship
3. Higly motivated Faculty team
4. Application oriented courses like Artifical Intelligence, Security, Data Science, IoT, Block chain
5. Design Thinking lab, Entrepreneurship Lab, Institute Social Responsibility Activites
6. Project Based Learning

Events, Guest Lectures & Achievements

- **Seminar :** Cyber Security
- **Workshop :** Laravel
- Robotic Process Automation
- **Guest Lecture:** Data Structures
- Automation
- Data Structures
- Java Programming
- Campus to Corporate Talk

CO-CURRICULAR
STUDENT INITIATIVES

SHUTTERWORKS CLUB

Shutterworks is an informal club that aims to promote the photography culture in the college. That basic idea behind this is to get a group of photography fanatics together, who exchange their knowledge about photography and enhance their skills. Towards this aim, various events and workshops are organized throughout the year. Photowalks across the entire city are scheduled for students, where students travel around the city and click fascinating photographs of anything and everything they find beautiful. Shutterworks also covers all major events that take place in the college.

IR-CELL

To enhance the quality of technical education, so as to enable graduates to successfully meet the challenges of the 21st century. IR Cell is established to bridge the skill gap between institute and industry. The key challenge faced by the engineering education today is the need to constantly adapt to the changing requirements of industry. IR Cell is also established to identify the expectation and need of the industry and accordingly promote institutional preparation for meeting those needs by facilitating seminars, workshops, research and Development project, and various other industrial training programs.

E- CELL

The E-Cell strives to generate enthusiasm and awareness about startups and entrepreneurship in the college. It encourages students to instill an entrepreneurial mindset and provide all possible guidance along the way. The E-Cell is successfully creating a self sustaining entrepreneurial community in our college, thus making it a better place to be in.

IIC COMMITTEE

MHRD'S INNOVATION CELL (GOVERNMENT OF INDIA)

Institution's Innovation Council is formed as per the prescribed format by MIC (MHRD Innovation Cell). The purpose of this committee is to promote innovation in the institution through multitudinous modes leading to an innovation promotion ecosystem in the campus.

SPEAKERS CLUB

The speakers club is an informal association that was initiated ten years ago. It helps students improve their communication skills through a range of activities based on public speaking, group discussion, interviews, vocabulary and grammar games, to name a few. Sessions are conducted by the Communication Skills faculty once a week in the break and addresses communication related issues like stage fright, lack of confidence, low levels of vocabulary and social inhibitions when it comes to interacting in professional circles.

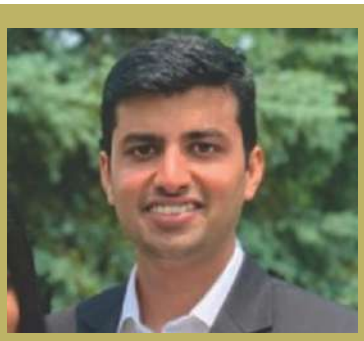
Our **Global Alumni Network**

S.P.I.T. Graduates are in demand at various organisations worldwide. Our alumni are recruited by global organisations and that makes S.P.I.T.'s presence known across the world. Our alumni are based at US, South America, Europe, Asia, Australia reaching all the way up to Argentina, New Zealand, Japan and South Korea. S.P.I.T. Graduates are the most sought after engineers in our homeland India.

Ankita Alshi
Software Development Engineer,
Amazon
B.E. Information Technology
(2010-2014)

Utkarsha Shetye
Application Developer,
Morgan Stanley
B.E. Information Technology
(2011-2014)

Samarth Shah
Software Engineer, Microsoft
B.E. Electronics (2014)



Nimish Agashiwala
Graphics Hardware Engineer,
Intel Corporation
B.E. Electronics (2013)

Omkar Joshi
Analog & PMIC Design Engineer,
Qualcomm
B.E. Electronics &
Telecommunication (2017)

Vedant Agrawal
Senior Software Engineer,
IBM Watson
B.E. Computer Engineering (2011)

Higher Studies - Electronics Engineering

Graduating year: 2017

Mr. Ameya Thombre
M.S.,
Purdue University

Ms. Jaskirat Kour
M.S.,
University of Southern California

Mr. Nikhil Nandoskar
M.S.,
Pennsylvania State University

Graduating year: 2018

Ms. Devanshi Bhatt
M.S., University of Illinois,
Urbana-Champaign

Mr. Kaushal Malviya
M.S.,
The University of Texas, Dallas

Mr. Shreyas Palande
M.S.,
TU Delft

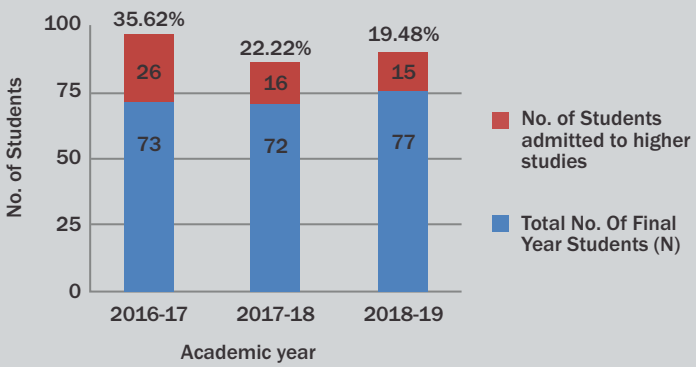
Graduating year: 2019

Mr. Nitin Shetty
M.S.,
Georgia Institute of Technology

Ms. Isha Dongre
M.S.,
North Carolina State University

Mr. Aditya Khopkar
M.S.,
University of Maryland

Students admitted to Higher Studies



Computer Engineering

Graduating year: 2017

Chaitanya Bapat
Georgia Institute of Technology

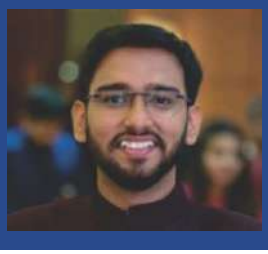
Janvi Jatakia
Carnegie Mellon University

Prajwal Shimpi
University of Southern California

Graduating year: 2018

Divye Gala
Georgia Institute of Technology

Shantanu Gawde
University of California,
Los Angeles



Sheryl Paul
University of Oxford

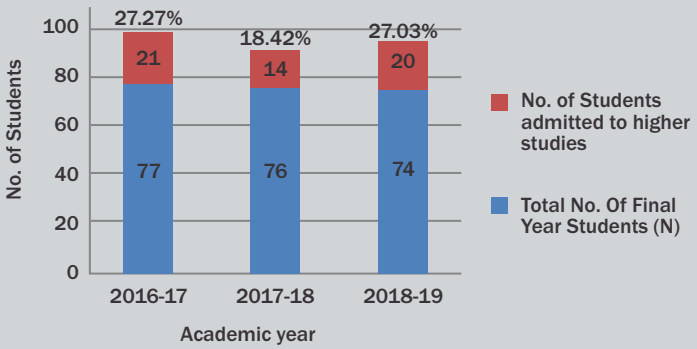
Graduating year: 2019

Aditya Desai
Columbia University

Ananya Ojha
Georgia Institute of Technology

Arth Patel
Trinity Business School Dublin

Students admitted to Higher Studies



Information Technology Engineering

Graduating year: 2017

Akshay Kirane
MS (Management Science and Engineering)
Columbia University

Birwa Galia
MS (Information System)
Northeastern University

Nikhila Gupta
MS (Information System Management)
Syracuse University

Graduating year: 2018

Madhuri Jain
MS (Computer Science)
University of Southern California

Ria Maheshwari
MS (Computer Science)
Carnegie Mellon University

Shwetha Kalyanaraman
MS (Computer Science)
North Caroline State university

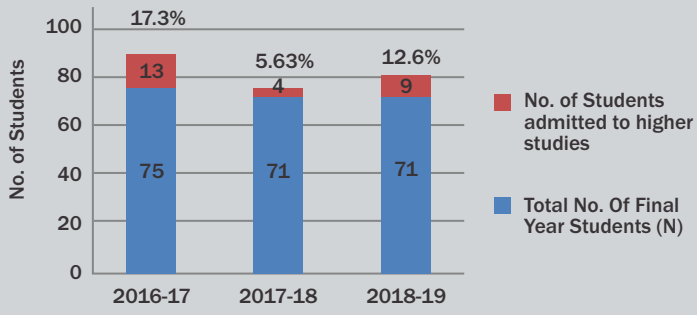
Graduating year: 2019

Adhrit Shetty
MS (Computer Science)
College of Computing Georgia Tech

Kevin Puthusseri
MS (Computer Science)
The University of Texas Austin

Parth Tamane
MS (Computer Science)
College of Computing Georgia Tech

Students admitted to Higher Studies



Electronics & Telecommunication Engineering

Graduating year: 2017

Pranshu Sinha
M.S., North California State University

Yash Karundia
M.S., University of Texas Austin

Gauri Joshi
M.S., Georgia Institute of Technology

Graduating year: 2018

Krishna Bhatu
M.S., University of Maryland College Park

Shubham Sidhwa
M.S., Georgia Institute of Technology

Raghav Daga
M.S., Stevens Institute of Technology

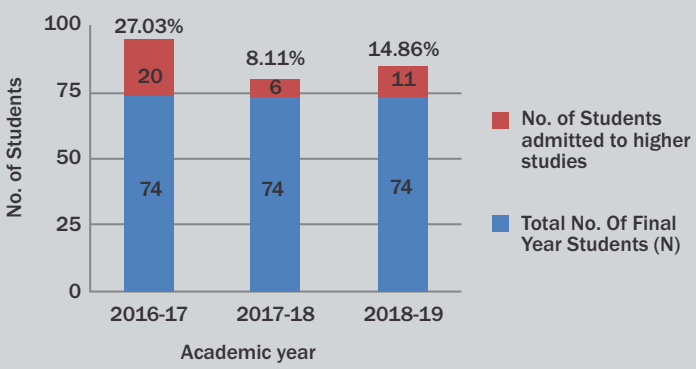
Graduating year: 2019

Kazi Ruman
M.S., TU Delft

Mohit Kapoor
M.S., ETH Zurich

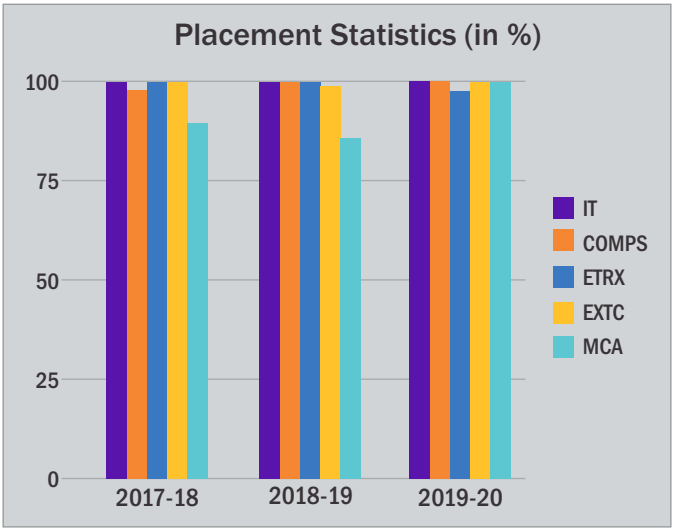
Nambisan Ameya
M.S., KU LEUVEN, Belgium

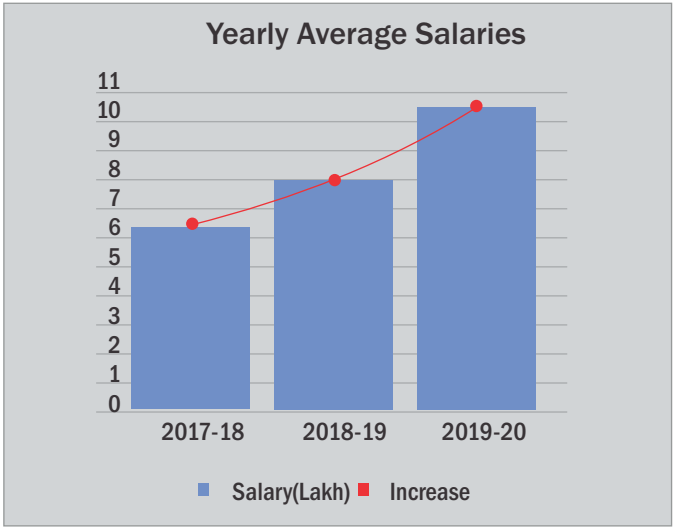
Students admitted to Higher Studies

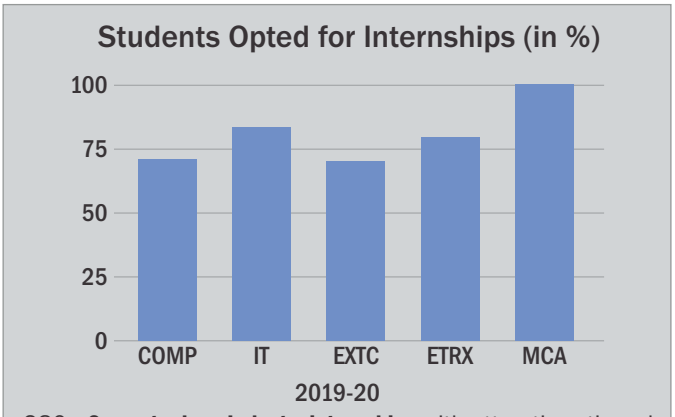


Training and **Placement**

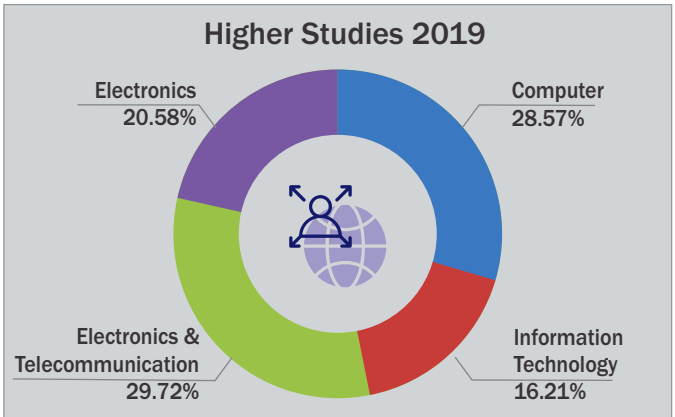
The Training & Placement Cell caters to the industrial training needs of students and also provides placement services to students through campus interviews. Many multinational and well-known Indian conglomerates regularly visit our campus every year for their requirement of high caliber human resources. The cell takes pride in offering student services like consultation on a wide range of issues such as employment, career planning, opportunities available, etc. thereby preparing students effectively for their career.

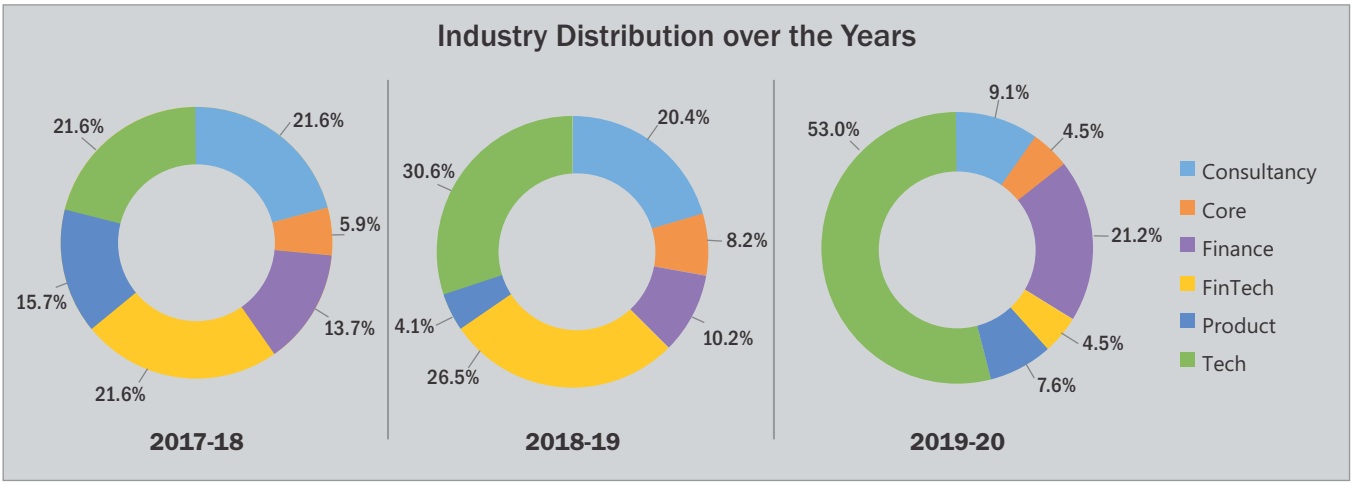






280+ **Semester long Industry internships** with attractive stipend





Our Partners

kotak Kotak Mahindra Bank · DOLAT CAPITAL · Microsoft · PhonePe · WorkIndia · cimpress · ISS · Chenoa · HDFC BANK · vmware · ACCOLITE · OMPARTNERS · Google · quantiphi · bookmyshow · BNP PARIBAS · GEP Insight Drives Innovation · NOMURA · Deloitte. · Axxela · amadeus · fractal INTELLIGENCE FOR IMAGINATION · ORACLE · CREDIT SUISSE · MSCI · AXIS BANK · Infosys · publicis sapient · IBM · MAQ Software · EQUIFAX

About
Sardar Patel - Technology Business Incubator (SP-TBI)

SP-TBI is an initiative of Bharatiya Vidya Bhavan's Sardar Patel Institute of Technology and is affiliated with Department of Science and Technology, Govt of India.

It is an incubation centre that supports daring entrepreneurs by helping them in building great technology ventures of future.

Our vision is to generate 10,000+ jobs through 500 new ventures in the next 5 years.

Our Aim is to Create a State of the Art Holistic Ecosystem to Encourage And Support Aspiring Entrepreneurs.

We strive to make startups successful and help them grow to new heights.

SP-TBI works as a catalyst behind entrepreneurs ensuring they get the best infrastructure, technology support, seed funding, talent pool, mentoring, training and much more.

We are currently a tribe of 75+ founders promoting 40+ companies and creating 300+ job opportunities.

DST Gov. of India Supported.

50 + Incubatees

500 + Jobs created

300 + Internships

42 + Innovations

4.17 Cr. Operational Fund from DST

10 Cr. SEED Fund from DST

What SP-TBI Offers to Its Startups?

Seed Funding

SP-TBI invests in companies through its seed funds. A few companies where SP-TBI has invested through its seed fund are Liminal, SchoolAtlas, Forehotels, RGM Technologies, Scholr, etc.

Advanced Technology Infrastructure

SP-TBI has a high-end Advanced Technology Hub housing the necessary hardware and software required for building AR/VR, IoT and AI and Data Analytics products. The lab has equipment such as high-end servers, 3D printers, high-performance computing machines with graphic cards, VR gears such as Oculus Rift, HTC Vive etcto name a few.

Access to Talent

SP-TBI gives startups access to technology and management talent. It also provides hiring platform for startups through its Jobs and Internship Initiatives.

Mentoring and Proficiency Building Events SP-TBI looks out for every opportunity to help develop the startups across a broad spectrum of functions such as Capital raising, Legal issues pertaining to startups, Marketing, Technology etc. through its various programs. SP-TBI has also introduced structured entrepreneurship programs for founders in the ideation stage of their company.

Community

SP-TBI is a tribe of more than 75 founders promoting more than 40 companies across sectors such as Consumer Internet, Fintech, Ad Tech, Augmented Reality, Machine Learning and Artificial Intelligence, Health Tech etc. We keep on hosting community building events to strengthen the ties of the TBI Tribe.

Infrastructure

Located in the most accessible part of Mumbai (Andheri West) with plug and play office space, co-working space, conference rooms, meeting rooms, cafeteria etc.

Few of Our Successful Startups

Work India – Founded by students of S.P.I.T, Work India today is the largest blue and grey collar jobs portal and heavily funded by VCs.

Scholr – Scholr uses Image processing technology to disrupt the education landscape by providing 24X7 academic help to millions of students.

Quidich – Quidich is India's leading aerial solutions company that pioneers in three primary verticals: aerial cinematography, sports broadcast and asset management.

Liminal – Liminal provides end-to-end experiential marketing solutions, using Virtual Reality and Augmented Reality to help you cut a niche in the world of digital transformation.

Jumpr.ai – Jumper is an AI-based social commerce enabler, powering the fastest checkout experience for your business #everywhere -on social media, blogs and the World Wide Web.

Switch Me – Switch Me is an end-to-end service that helps you with everything related to your Home Loans - identifying the right lenders to figuring out the best tenure, interest rates to even balance transfers.

Kan Innovations – People are often unaware of the root cause of foot aches, and if ignored or left unattended they may result in more serious foot, ankle, back, knee and hip related ailments. Most often, it's the wrong choice and fit of footwear that is to blame! Kan Innovations' team is seized with this problem and is working towards building solutions for it.

Summit Games – Summit Games is a gaming website company that develops 3rd party video game website for MMORPG's. Summit games flagship website is EVE-Summit.com, which provides top tier content for players of CCP Games MMORPG, EVE Online.

PODS Ventures – A Lending Technology platform company, enabling instant and seamless credit to consumers for purchases at Digital Point of Sale.

About
IPR Cell (Intellectual Property Rights)

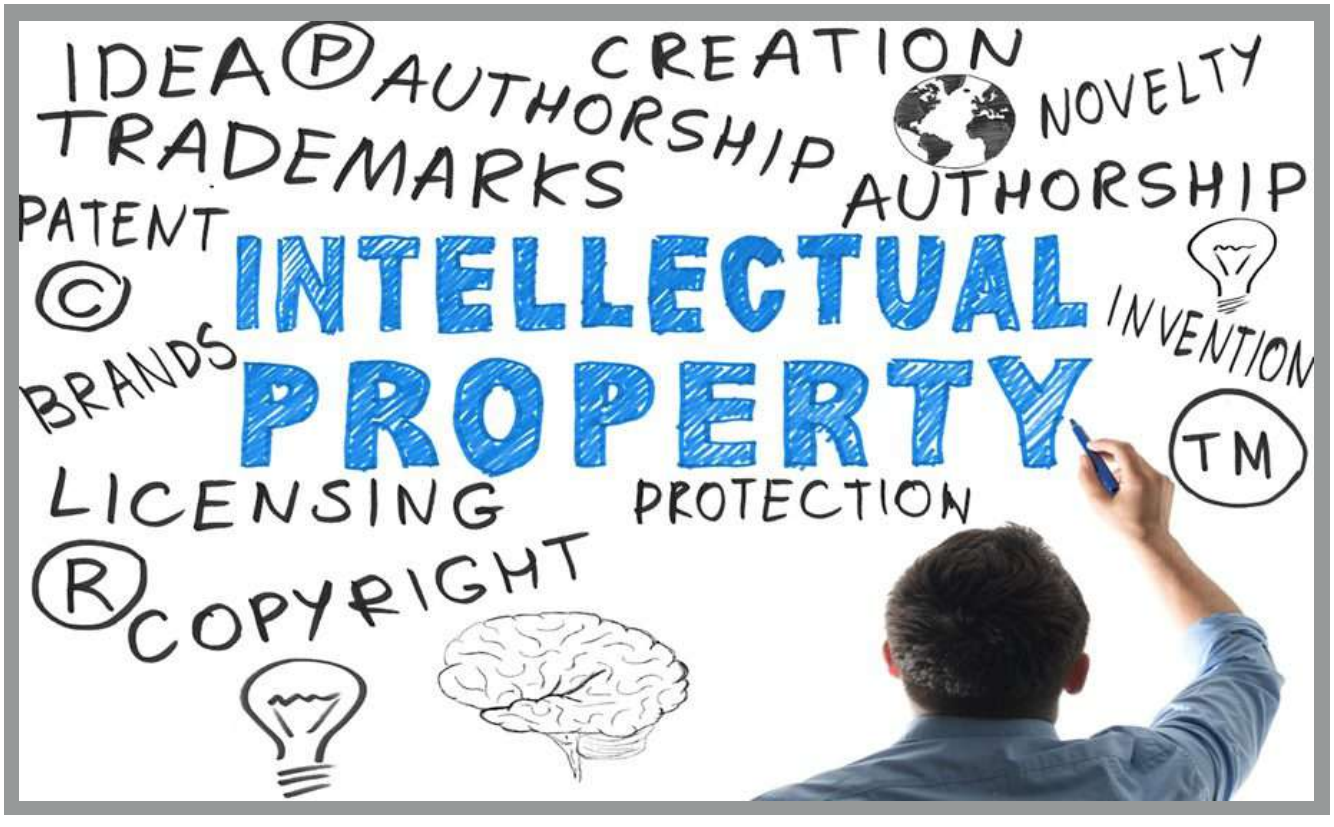
IPR Cell was established in SP-IT in 2012 to protect the invention of students and faculty. Campus has taken the initiative to promote innovations and to facilitate protection of Intellectual Property (IP) created at the campus. The Intellectual Property Rights Cell(IPR Cell) at campus is formed to provide guidance, support and resources to all campus personnel and facilitates protection and deployment of intellectual property. IPR-Cell conducts workshops to enhance awareness on related issues, it also provides templates and guidelines for the contracts, agreements and MOUs governing the effective exploitation of the IP produced by faculties and students. Towards this goal an Intellectual Property Policy of the Institute has been formulated. SP-IT has published a total of 88 patents since June 2013 till now.

VISION:

Secure innovative ideas of inventors to create an ambience of research and innovation for the future leaders and innovators.

MISSION:

To create environment for development of IPR through research innovation



Life@S.P.I.T.

Life at S.P.I.T. is not just limited to academic pursuit. S.P.I.T. provides an opportunity for holistic development of students by promoting and facilitating activities from all spheres of life. Our students make us proud by winning national, state and district level sporting events. Some even win internationally acclaimed coding and hackathon competitions. Students often have published research papers before they graduate. Apart from all this, achievements in cultural activities and performances are common and very much appreciated by the institution. Students also participate in various social activities for giving back to the society. Life at S.P.I.T. can guarantee Success, Professionalism, Intelligence and being Trendy.

Freshers Party


Navratri Celebration

abl-fsai-installation-ceremony

Convocation

Spoorthi-keynote-speaker

ecell-panel-discussion

ecell-food-challenge

women_s-week

oculus-codatron

oculus-aelaan-e-jung

oculus-war-of-branches

open-mic-night

oculus-ipl-auction

teachers-day


ROONEY
10

Bharatiya Vidya Bhavan's

SARDAR PATEL INSTITUTE OF TECHNOLOGY

S.P.I.T. Highlights

Numero Uno, Self-Financed, Autonomous Institution of Maharashtra.

Strong Reputation

S.P.I.T. Ranked at 125th Position by National Institutional Ranking Framework (NIRF-2020), Govt. of India.

Finest Professors

Faculty are well experienced in their respective domains. Actively engaged in research work and publish papers and research articles in leading journals nationally and internationally.

Well Equipped Department & Labs

NBA accredited departments. 24X7 Lab facilities enable students to pursue any experiment without any limitations. Students are free to use the resources for their own research work also.

Curriculum

Unique, flexible, globally competent curriculum. Caters to industry expectations in India and the world.

Industry Experience

Strong culture of innovation, research and entrepreneurship. Fruitful industry association for Semester long industry internship.

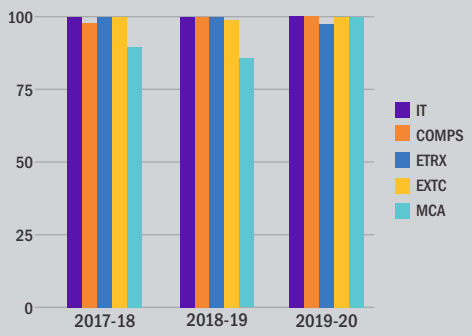
Technology Business Incubator

DST Gov. of India Supported.

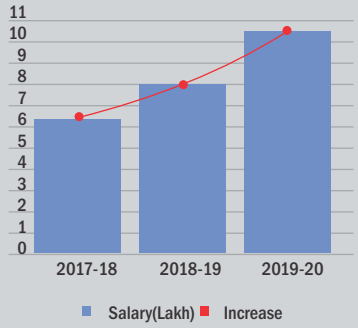
- 50 + Incubatees
- 500 +Jobs created
- 300 +Internships
- 42 +Innovations
- 4.17 Cr. Operational Fund from DST
- 10 Cr. SEED Fund from DST

Placement Highlights

Placement Statistics (in %)



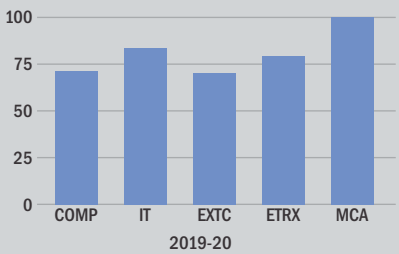
Yearly Average Salaries



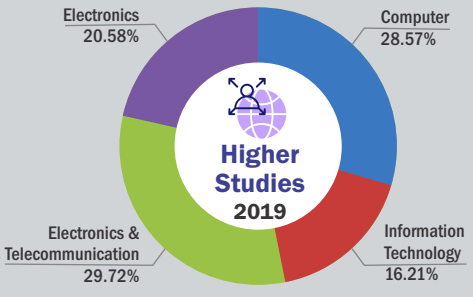
Some of our partner companies

kotak Kotak Mahindra Bank, DOLAT CAPITAL, Microsoft, PhonePe, ISS, Chenega, HDFC BANK, WorkIndia, cimpress, vmware, ACCOLITE, M OMPARTNERS, Google, quantiphi, bookmyshow, BNP PARIBAS, GEP, NOMURA, Deloitte., Axxela, AMADEUS, fractal, ORACLE, CREDIT SUISSE, MSCI, AXIS BANK, Infosys, publicis sapient, IBM, MAQ Software, EQUIFAX

Students Opted for Internships (in %)



280+ **Semester long Industry internships** with attractive stipend



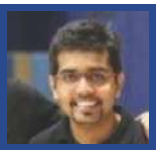
some of SP-TBI Incubatees

Vidyalaya, Eatabl, scholr, pykih, Rama Life Science, Embedos, WorkIndia, LIMINAL

Our Alumni

Ameya Abhyankar
SoC Engineering Manager, Intel Corporation
B.E. Electronics (2008)

Dhairya Vora
Software Engineer, Microsoft, Redmond, Washington
B.E. Information Technology (2013)



Ajinkya Gaikwad
Software Engineer, Facebook, Gainesville, Florida
B.E. Electronics and Telecommunications (2013)

Sumit Gouthaman
Software Engineer, Google
B.E. Computer Engineering (2014)

Ritika Nevatia
Software Engineer, Apple, Seattle, USA.
B.E. Computer Engineering (2015)

Jaskirat Kaur
SOC Verification Engineer, Apple
B.E. Electronics (2017)

For more information log on to **www.spit.ac.in**

Let noble thoughts come to us from every side

Fees

Fees for 2020-21 batch sanctioned by Fees Regulating Authority :

- UG Engineering - Rs. 170000/-
- PG Engineering - Rs. 168000/-
- MCA - Rs. 168000/-

Mandatory Facilities

- Ramp & Lift for Handicapped students.
- Fee concessions as per Government norms for category students admitted through CAP by competent authority
- Fee concession for Minority & EBC students as per Government norms.

Transparent Process

Sardar Patel Institute of Technology takes pride in offering admissions strictly on the basis of merit. The constant efforts of the administrative team, which is the backbone of the institution, at maintaining transparency right from student admission to day-to-day functioning makes them very approachable to the students and faculty alike. The fees of the institution are finalized only after approval from FRA. It also provides all facilities and amenities as per statutory requirement prescribed by various government bodies.

Bhavan's Global Presence

International Centres

- Dubai
- Durban(South Africa)
- London
- New York
- Sydney
- Doha
- Kuwait
- Abu Dhabi

National Centres

- Andhra Pradesh
- Assam
- Chhattisgarh
- Delhi
- Gujarat
- Haryana
- Himachal Pradesh
- Jammu & Kashmir
- Jharkhand
- Karnataka
- Kerala
- Madhya Pradesh
- Maharashtra
- Orissa
- Punjab
- Rajasthan
- Tamil Nadu
- Tripura
- Uttar Pradesh
- Uttaranchal
- West Bengal

Bharatiya Vidya Bhavan's

SARDAR PATEL INSTITUTE OF TECHNOLOGY

(Autonomous Institute Affiliated to University of Mumbai)

आ नो भद्रा : क्रतवो यन्तु विश्वत :।

Let noble thoughts come to us from every side

Munshi Nagar, Andheri (West), Mumbai - 400 058
Tel: 91-22-2670 8520, 2670 7440, 2628 7250
E mail: principal@spit.ac.in Website: www.spit.ac.in