From the Chancellor’s Desk

India is at the threshold of opportunities that globalization has to offer and in order to reap these benefits we need to match up with the technical knowhow that is required globally. Technological advancements are idiosyncratic with developing countries and it is one of those very powerful things that can propel a nation to the very front. It plays the most pivotal role in the progress of a country. And to set that wheel spinning, there is a need for competent professionals who excel not only in the field of technology but also soft skills and skills related to liberal arts, humanities, management and above all, life skills.

Symbiosis being one of the foremost educational centers of this wonderful nation, it was more than imperative for us to have a technical arm. Anyone who has spent four years of education at SIT will more than manifest the vision we had initially set out with, and I am sure the prospective employers will find in our students, true Gentlemen Engineers; to the last syllable.

Padma Bhushan Dr. S. B. Mujumdar
Chancellor, Symbiosis International University
President & Founder Director, Symbiosis

From the Principal Director’s Desk

In line with Vedie philosophy of ‘World as one Family’, Symbiosis Institute of Technology is home to students from varied backgrounds. This cultural mix allows each and every student to explore and understand the diversity our country has to offer on first hand basis. This melting pot of cultures does not stop at that.

Symbiosis Institute of Technology being one of the youngest Institutes of the Symbiosis family, enjoys the attention of other sister institutes and this can be seen through a series of initiatives and programmes that have encouraged the intermingling of all the peers. This gives the students the edge of having gained industrial exposure at an early stage which ensures a seamless transition to the industry. Backed by this are the several cultural events, projects and techfests that maintain a perfect balance of technical and soft skills.

With the kind of opportunities provided at SIT, we believe our candidates are more than equipped to face the challenges of their careers.

Dr. Vidya Yeravdekar
Principal Director
Symbiosis International University
Symbiosis International University has excelled in the faculties of Management, Law, Design, Media & Communication, Computer Studies, Health and Bio-medical Sciences, Humanities and Social Sciences. Five years ago, we set out with the same enthusiasm we had forty years ago, into the field of Engineering. To nurture a mind in technical aspects as well as to prepare it for the vagaries of life required us to create a multifaceted environment, an environment which breeds in our students the virtues and skills required to handle real life situations where the classroom theory can be applied in practice.

This obviously called for up-to-date infrastructure, innovative policies and a faculty to match them all. It has been our consistent endeavor to induce in our students the ability to look beyond the ordinary and to explore the unknown arenas of research. Our students have been molded to challenge the inefficient methods with boldness and to come up with appropriate solutions.

Dr. Rajani R Gupte  
Vice-Chancellor  
Symbiosis International University

From the Director’s Desk

Symbiosis Institute of Technology (SIT) is different from other institutes of engineering and technology in many ways. State of the art infrastructure, location at foot-hills, pleasant environment of Pune, existence of large number of industrial organizations in close vicinity, highly qualified and experienced faculty, well designed curriculum & teaching-learning processes and learning outside the classrooms makes SIT a great seat of learning. To supplement the teaching learning process, guest lectures by renowned personalities from academics and industry are organized. Students at S.I.T come from all parts of the country. This diverse background provides the students opportunities for peer learning.

Students also participate in a large number of co-curricular and extra-curricular activities. Dedication, team spirit, planning & coordination skills and crisis management are best learnt and demonstrated during the organization of cultural, technical and sports events. Students groomed by SIT are expected to be competent professionals with good domain knowledge and skills, managerial acumen and respect for human values.

The concepts and techniques learnt at S.I.T and their implementation through industrial projects will stand them in good stead throughout their career. I wish them great success in their career.

Dr. T. P. Singh  
Director, SIT Pune
Symbiosis International University

- Symbiosis was established in 1971 by Padma Bhushan Dr. S.B. Mujumdar
- Granted Deemed University status in 2002 by MHRD.
- Seven Faculties: Management, Law, Media, Communication & Design, Computer Studies, Health & Biological Sciences, Humanities & Social Sciences and Engineering.
- 9 Campuses spread over India, 28 Institutes.
- Students from 75 countries.
- More than 23,000 students have graduated from the university.

Symbiosis Institute of Technology
Symbiosis Institute of Technology (SIT), a constituent of Symbiosis International University (SIU), was established in the year 2008 with an intake of 240 in four B.Tech courses. Presently the institute has following programmes:

<table>
<thead>
<tr>
<th>Course</th>
<th>Intake</th>
<th>Year of Starting</th>
</tr>
</thead>
<tbody>
<tr>
<td>B.Tech Computer Science &amp; Engineering</td>
<td>60</td>
<td>2008</td>
</tr>
<tr>
<td>B.Tech Electronics &amp; Telecommunications</td>
<td>120</td>
<td>2008</td>
</tr>
<tr>
<td>B.Tech Information Technology</td>
<td>60</td>
<td>2008</td>
</tr>
<tr>
<td>B.Tech Mechanical Engineering</td>
<td>120</td>
<td>2008</td>
</tr>
<tr>
<td>B.Tech Civil Engineering</td>
<td>60</td>
<td>2009</td>
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<tr>
<td>M.Tech Computer Aided Design &amp; Manufacture</td>
<td>18</td>
<td>2011</td>
</tr>
<tr>
<td>M.Tech Computer Science &amp; Engineering</td>
<td>24</td>
<td>2012</td>
</tr>
<tr>
<td>M.Tech Electronics &amp; Telecommunication Engineering</td>
<td>18</td>
<td>2012</td>
</tr>
</tbody>
</table>
Teaching Learning at SIT

- Effective and interactive teaching learning process
- Use of multimedia and other teaching aids
- Curriculum oriented to industry and higher education aids
- Regular revision in curriculum
- Experimental and Project based learning
- Maintenance of Course Files for sound planning and control of teaching learning process
- Six month internship totally devoted to problem solving by undertaking projects in industry
- Study of liberal arts, performing arts, and credit transfer through other Symbiosis Institutes
- Opportunity to qualify a special diploma in Business Management from SIBM
- Global Immersion Programme
- Service learning as an integral part of curriculum
Learning beyond Classroom

• Organization of Tech fest by each department

Professional Societies

• IEEE Student Chapter in Electronics and Telecommunication Department
• SAE in Mechanical Engineering Department
• CESA in Civil Engineering Department
• CSI Students Chapter in Computer Science and Engineering, and Information Technology Department

Societies and Clubs

• Innovation Club
• Literary Society
• Environmental Society
• Cultural and Fine Arts Society

Other Activities

• Industrial Visits
• Guest Lectures by renowned personalities from industry and academics
• Webinars
• In-house competitions, debates etc.
Industry Interface

- **Projects Semester, a Six Months internship in Industry**
  - Emphasis on problems solving
  - Students work under the supervision of a Mentor from industry and a Faculty Mentor from the Institute.
  - Closely monitored and assisted by faculty through regular visits and evaluation by Industry and the Institute

- **Final Year Projects**
  - Real life projects from industry in most cases
  - Students can remain in industry to carry out these projects

- **Industrial Visits**
- **Regular Guest lectures by experts from Industry**
- **Involvement of experts from industry in Curriculum Development, Board of Studies, Academic Council**
Research & Development

- Ph.D Programme
  - In Civil Engineering, Computer Science & Engineering, Electronics & Telecommunication Engineering, Information Technology, Mechanical Engineering, Physics, Chemistry, Mathematics
  - 60 Student pursuing Ph.D in emerging areas of above disciplines.
  - Minimum two publication are necessary from each Ph.D research work
  - Emphasis is laid on experimental work and equipment is made available for research.
  - Research equipment and facilities have been established at SIT to carry out high quality basic and applied research. Faculty members send proposals to funding agencies for sponsored R&D projects in emerging areas of research.
  - Faculties and students have large number of publications in referred journals and are actively engaged in publications. Research Centres are being planned in the areas of Radio Science and Waste Management.

- M.Tech:
  - Computer Aided Design & Manufacture
  - Computer Science & Engineering
  - Electronics & Telecommunication Engineering.
  - Geoinformatics and surveying Technologies.

- Emphasis on Basic and Applied Research
- At least one publication is necessary from each Master’s level research work.

Publications

![Bar Chart of Publications of SIT Faculty](image-url)
Central Library

Stacking area  Spacious Reading Space  Digital Library

Spacious Well-Equipped Labs
Separate Hostel for Boys and Girls

Top View Of SIT

Food Court
<table>
<thead>
<tr>
<th>Companies for CS/IT</th>
<th>Companies for Mechanical</th>
<th>Companies for Civil</th>
<th>Companies for ENTC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Syntel Pvt Ltd</td>
<td>Bizmatics india pvt ltd</td>
<td>RITES Ltd</td>
<td>Akshay Electronics</td>
</tr>
<tr>
<td>M Solutions Pvt Ltd.</td>
<td>NIIT-Technologies Ltd.</td>
<td>Mahindra Vehicle Manufacturers Ltd</td>
<td>L&amp;T construction Ltd.</td>
</tr>
<tr>
<td>KPIT Cummins Pvt Ltd</td>
<td>Leamingmate Solutions Pvt. Ltd.</td>
<td>Force motors Ltd</td>
<td>Defence Electromics</td>
</tr>
<tr>
<td>Vijaya Bank</td>
<td>RMC Readymix(India)(A Division of Prism Cement Ltd)</td>
<td>Bharat Forge Ltd</td>
<td>Application Laboratory</td>
</tr>
<tr>
<td>NextWave Multimedia Pvt Ltd</td>
<td>VG IT Solutions</td>
<td>Thermax Pvt Ltd</td>
<td>Mitsubishi Electric India</td>
</tr>
<tr>
<td>Quest Solutions Pvt. Ltd.</td>
<td>Delta Embedded Solutions Pvt. Ltd.</td>
<td>TATA MOTORS Ltd,</td>
<td>Eros Group</td>
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<tr>
<td>Centre for civil society</td>
<td>Yashwantrao Chavan Maharashtra Open University</td>
<td>Fiat India Automobiles Limited</td>
<td>Siemens Ltd</td>
</tr>
<tr>
<td>RZ2 Games Pvt Ltd</td>
<td>Vaultize Pvt Ltd</td>
<td>Kraftsman Tooling pvt Ltd</td>
<td>Forbes Marshall Pvt Ltd</td>
</tr>
<tr>
<td>L&amp;I infotech Pvt Ltd.</td>
<td>VG IT Solutions</td>
<td>Accurate Engineering Co. Pvt. Ltd</td>
<td>Kumar Megapolis</td>
</tr>
<tr>
<td>RBI</td>
<td>YCMOU</td>
<td>Eicher Motors</td>
<td>SBEM Pvt. Ltd</td>
</tr>
<tr>
<td>Makshi Infotech</td>
<td>Rasa life science infomatics Pvt Ltd</td>
<td>TBK INDIA PVT LTD</td>
<td>AVR Vastu Pvt Ltd.</td>
</tr>
<tr>
<td>I3C LOGIC Pvt Ltd.</td>
<td>Raymonds Ltd</td>
<td>JCB INDIA LTD</td>
<td>ICOMM Tele Ltd</td>
</tr>
<tr>
<td>Global Transformation Technologies Pvt Ltd</td>
<td>iWare logic Pvt. Ltd.</td>
<td>Renuka Auto components Pvt Ltd</td>
<td>ACE Almighty Ltd</td>
</tr>
<tr>
<td>Wegilant Net Solutions Pvt. Ltd.</td>
<td>UNIKEN Pvt ltd</td>
<td>APWPresident System Ltd.</td>
<td>Trackster Technologies Pvt Ltd</td>
</tr>
<tr>
<td>Agilent Technologies Pvt Ltd.</td>
<td>Filix Consulting Pvt. Ltd.</td>
<td>vishakhapatnam steel plant</td>
<td>Shapoorji Pallonji</td>
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<td></td>
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<td></td>
<td>Engineering &amp; Construction</td>
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<tr>
<td></td>
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<td></td>
<td>Pvt Ltd</td>
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<td>BNIL</td>
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### Companies where student did their 6-Month Internship

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<th>Companies for CS/IT</th>
<th>Companies for Mechanical</th>
<th>Companies for Civil</th>
<th>Companies for ENTC</th>
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</thead>
<tbody>
<tr>
<td>RELIANCE Infrastructure ADAG Pvt Ltd</td>
<td>Lyftek Solution Pvt Ltd</td>
<td>Ordnance factory, Hyderabad</td>
<td>Pharande Promoters and Builders</td>
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<tr>
<td>Persistent Systems Ltd</td>
<td>Tata Steel Ltd</td>
<td>Renault Nissan Automotive India Pvt. Ltd.</td>
<td>Lunkad Realty</td>
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<tr>
<td>HPPCL</td>
<td>Bhilai Steel Plant</td>
<td>ONGC</td>
<td>M J Associates</td>
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<tr>
<td>DCM-Shriram consolidated limited</td>
<td>Avaya India Pvt Ltd</td>
<td>Elecon Engineering Co. Ltd.</td>
<td>Suhas G. Joshi Consulting Engineers and Structural Designer</td>
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<tr>
<td>Indian Oil Corporation Limited</td>
<td>Tata Consultancy Services Fingerprints</td>
<td>NHK SPRING INDIA LTD</td>
<td>Pegasus Properties Pvt. Ltd.</td>
</tr>
<tr>
<td>SCHNEIDER ELECTRIC Pvt Ltd</td>
<td>Indian Oil Corporation Limited Fingerprints</td>
<td>National Hydroelectric Power Corporation (NHPC)</td>
<td>Soltech (India) Pvt. Ltd.</td>
</tr>
<tr>
<td>Binary SoftZone Pvt Ltd</td>
<td>Avaya India Pvt Ltd</td>
<td>Maruti Suzuki India Ltd.</td>
<td>AAKAR Construction - Engineers and Developers</td>
</tr>
<tr>
<td>Tata Consultancy Services</td>
<td>ILex Softhub.pvt.ltd.</td>
<td>Rites Ltd.</td>
<td>Goel Ganga Developments</td>
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<tr>
<td>Defence Research and Development Organization (DRDO)</td>
<td>Landmark Systems and Solutions Fingerprints</td>
<td>Danfoss Industries Pvt Ltd</td>
<td>Pinnacle Group</td>
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<tr>
<td>Wishtree Technologies Pvt Ltd</td>
<td>HCL Technology</td>
<td>Reliance Indus Ltd</td>
<td>GMR Infrastructure Limited (EPC Division)</td>
</tr>
<tr>
<td>DataVoice Solutions Pvt Ltd</td>
<td>Tata Technologies Limited</td>
<td>Godrej &amp; Boyce Mfg. Co. Ltd</td>
<td>Balaji Infrastructures</td>
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<tr>
<td>Tata Power Pvt. Ltd.</td>
<td>Persistent Systems Ltd</td>
<td>Sona koyo Steerings Ltd.</td>
<td>Patva Kinanivala Electronics Ltd.</td>
</tr>
<tr>
<td>Acclaris Business Solution Pvt Ltd</td>
<td>Mahindra &amp; Mahindra</td>
<td>Mahindra &amp; Mahindra</td>
<td>Adani Energy Networks Pvt Ltd</td>
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<tr>
<td>R&amp;D(E) ENGINEERS</td>
<td>Hella India Electronics Pvt. Ltd.</td>
<td>Century Engineers Ltd</td>
<td>Jai Shree Rasayan Udnyog Limited</td>
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<tr>
<td>Intelliswit Pvt Ltd.</td>
<td>Elcon</td>
<td>Jai Shree Rasayan Udnyog Limited</td>
<td>National Information Center</td>
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<tr>
<td>Global Transformation Technologies Pvt Ltd</td>
<td>Avaya India Pvt Ltd</td>
<td>Honda Cars India Ltd.</td>
<td>S A Automation Ltd.</td>
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<tr>
<td>Tata Consultancy Services</td>
<td>Tech Mahindra</td>
<td>Yamaha Motors Pvt Ltd</td>
<td>S A Automation Ltd.</td>
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<tr>
<td>Wipro Infotech</td>
<td>IIT BHU Professor in Mechanical Engineering Department,</td>
<td>Yamaha Motors Pvt Ltd</td>
<td>S A Automation Ltd.</td>
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<tr>
<td>Serco Global Services</td>
<td>C.L.W. (Chittaranjan locomotive works)</td>
<td>West Bengal</td>
<td>Digitech Engineers Pvt Ltd.</td>
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</table>
### Companies who visited our campus for Placements [2014-15]

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Company Name</th>
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<tbody>
<tr>
<td>1</td>
<td>3DPILM Software</td>
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<tr>
<td>2</td>
<td>Amazon India</td>
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<tr>
<td>3</td>
<td>Amdocs</td>
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<td>4</td>
<td>Ansh Systems</td>
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<td>5</td>
<td>ATOS India Pvt Ltd</td>
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<td>6</td>
<td>Avaya</td>
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<td>7</td>
<td>Clearpier</td>
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<td>Cram Technology</td>
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<td>9</td>
<td>Cummins India</td>
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<td>10</td>
<td>Decimal Point analytics Pvt. Ltd</td>
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<td>Fenesta</td>
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<td>12</td>
<td>Geiseck and Devrient</td>
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<td>13</td>
<td>Harbinger</td>
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<td>14</td>
<td>Housing.Com</td>
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<td>15</td>
<td>Hawlett and Packart</td>
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<tr>
<td>16</td>
<td>IBM India Pvt. Ltd</td>
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<tr>
<td>17</td>
<td>Indian Army</td>
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<td>18</td>
<td>Indian Navy</td>
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<tr>
<td>19</td>
<td>Inforce Pro Company</td>
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<td>20</td>
<td>JP Research India Pvt Ltd</td>
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<td>21</td>
<td>JW Consultant</td>
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<td>22</td>
<td>KSPG Automotive India Private Limited (formerly - Pierburg India Private Limited)</td>
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<td>mPani</td>
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<td>Media Ocean Asia Pvt. Ltd.</td>
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<td>Mini Orange Pvt. Ltd.</td>
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<td>Network security System</td>
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<td>Nihent</td>
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<td>Nvidia Corporation</td>
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<td>Persistent Systems Ltd.</td>
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<td>30</td>
<td>Pitney Bowes Software India Pvt. Ltd.</td>
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<td>31</td>
<td>Polaris Software India Pvt. Ltd.</td>
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<td>32</td>
<td>Precast India Infrastructures Pvt. Ltd.</td>
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<tr>
<td>33</td>
<td>PTC Software (India) Pvt. Ltd.</td>
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<tr>
<td>34</td>
<td>Pubmatic India Pvt. Ltd.</td>
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<td>PlobalApps</td>
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<tr>
<td>36</td>
<td>Quinnox</td>
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<tr>
<td>37</td>
<td>Rakuten (Japan)</td>
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<td>38</td>
<td>Reflexis Systems India Pvt. Ltd.</td>
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<td>Roof Care Co LLC (UAE)</td>
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<td>SACPL</td>
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<td>Sandvik Asia</td>
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<td>Siemens PLM</td>
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<td>Sokrati Technologies Pvt Ltd</td>
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<td>Symantec Corporation</td>
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<td>45</td>
<td>Syntel</td>
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<td>46</td>
<td>Tata Consultancy Services Private Limited</td>
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<td>TeaBox</td>
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<td>48</td>
<td>Teach For India</td>
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<tr>
<td>49</td>
<td>Toyo Engineering India Ltd</td>
</tr>
<tr>
<td>50</td>
<td>Xoriant Solutions Pvt. Ltd.</td>
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</table>
### Companies who visited our campus for Placements [2013-14]

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<td>Amanora</td>
</tr>
<tr>
<td>4</td>
<td>Amazon India</td>
</tr>
<tr>
<td>5</td>
<td>Amdocs Development Center India Pvt Ltd</td>
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<td>6</td>
<td>Blaze Clan Technologies Pvt. Ltd</td>
</tr>
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<td>7</td>
<td>Book my show [Big Tree Entertainment]</td>
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<td>8</td>
<td>Bosch Ltd</td>
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<td>9</td>
<td>Career Launcher Pvt. Ltd.</td>
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<td>10</td>
<td>Ceat Tyres</td>
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<tr>
<td>11</td>
<td>Com Score Inc</td>
</tr>
<tr>
<td>12</td>
<td>Daikin Airconditioning India Pvt Ltd</td>
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<tr>
<td>13</td>
<td>Dana India Private Limited</td>
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<td>Emerson Climate Technologies (India) Limited</td>
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<td>Emerson Innovation center (India) Limited</td>
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<td>16</td>
<td>FMC Technologies</td>
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<td>Forbes Marshall Pvt. Ltd</td>
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<td>Harbinger System</td>
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<td>IBM Pvt Ltd</td>
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<td>Indian Army</td>
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<td>Indian Navy</td>
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<td>Infosys Limited</td>
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<td>Josh Technology Group</td>
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<td>Linhoff India Pvt. Ltd</td>
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<tr>
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<td>Matrix comsec Private Limited</td>
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<tr>
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<td>Millennium Conferencing Systems Pvt. Ltd. (MCSPL)</td>
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<td>Minorange Pvt Ltd</td>
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<tr>
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<td>Mphasis</td>
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<td>Neilsoft Ltd</td>
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<td>NTT Data Pvt Ltd</td>
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<tr>
<td>31</td>
<td>Nvidia Corporation</td>
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<td>32</td>
<td>Ohum healthcare solutions Pvt. Ltd</td>
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<td>Open Symmetry</td>
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<td>Pelt Infotech Pvt Ltd</td>
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<td>Persistent Systems Limited</td>
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<td>Pitney Bowes [For Business Analyst Position]</td>
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<tr>
<td>37</td>
<td>Pitney Bowes [For Technical position]</td>
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<td>Precast India Infrastructures Pvt Ltd.</td>
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<td>Premium Transmission Ltd.</td>
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<td>Pubmatic Pvt. Ltd [For Business Analyst Position]</td>
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<td>Quinnox Services Ltd</td>
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<tr>
<td>45</td>
<td>Route Rabbit Inc</td>
</tr>
<tr>
<td>46</td>
<td>Right Spot Media</td>
</tr>
<tr>
<td>47</td>
<td>Recruit Devices &amp; Systems</td>
</tr>
<tr>
<td>48</td>
<td>Saint Gobain India</td>
</tr>
<tr>
<td>49</td>
<td>Shrijan Technologies</td>
</tr>
<tr>
<td>50</td>
<td>Siemens Industry Software (India) Private Limited</td>
</tr>
<tr>
<td>51</td>
<td>Sokrati Technologies Pvt. Ltd [ For R&amp;D Position]</td>
</tr>
<tr>
<td>52</td>
<td>Sokrati Technologies Pvt. Ltd [ For Technical support]</td>
</tr>
<tr>
<td>53</td>
<td>Syntel</td>
</tr>
<tr>
<td>54</td>
<td>Tata Consultancy Services Private Limited</td>
</tr>
<tr>
<td>55</td>
<td>Thought werks Technologies Private Limited</td>
</tr>
<tr>
<td>56</td>
<td>Webonise Lab</td>
</tr>
<tr>
<td>57</td>
<td>Veritas Microsystems LLP</td>
</tr>
<tr>
<td>58</td>
<td>Capgemini (off campus)</td>
</tr>
<tr>
<td>59</td>
<td>Koncranes - Lifting Businesses</td>
</tr>
</tbody>
</table>
Internationalization

- Global Immersion Programme: Students can go to Foreign Universities and qualify for courses. Their credits can be transferred.
- Students from Foreign Universities like Nanyang Technological University and Ingolstadt come for ‘Study India’ Programme.
- Expert faculty from foreign universities delivers lectures and help in curriculum development.
- Students of SIT carryout internship or take up courses at Leibniz University, Hannover and Nanyang Technological University, Singapore.
- Recently it has been extended to M.Tech students as well.
- Faculty from SIT regularly visit partner Universities abroad.

Foreign Students

- Frankfurt School of Finance & Management
- Leibniz Universität Hannover
- IUPUI
- UCC
- Nanyang Technological University
• **Annual Cultural Festival REVERB**
  - Inter Institute Competitions are organized in cultural activities like dance, singing, Fashion show, photography, short film making. A large number of teams from institutes in Pune and nearby cities participate. Renowned artists/groups invited on Pronite and other events.
  - Cultural events organized at the time of Independence Day, Republic Day, Induction programme and other occasions.
  - Students undertake social work in NGOs and involve themselves in education of village students, service to the elderly etc.

**Short Play on Independence**

**REVERB PHOTOS**
Sports at SIT

- Symbiosis International University (SIU) organizes Inter Institute competition in various Outdoor and Indoor sports. Some of the prominent indoor and outdoor games include Football, Cricket, Volleyball, Table tennis, Badminton, Chess, Carrom etc.
- SIT also organizes Interclass tournament, Protathlitis in various sports.
- Outstanding sports persons, selected in the SIU team, participate in Inter – University competitions.
DEPARTMENT OF APPLIED SCIENCES

The Department of Applied Sciences undertakes the teaching of science subjects like Physics, Chemistry and Mathematics for the students of all undergraduate programmes with the aim of building a strong science foundation for the subsequent learning of professional courses related to engineering and technology. Courses related to communication skills and social skills are also taught by the faculty of this department. From the year 2012-13 the Department started M.Sc. Physics programme. M.Sc. programs in Engineering Chemistry and Mathematics are planned to be started in future.

Faculties

<table>
<thead>
<tr>
<th>Dr. A. S. Warke</th>
<th>Dr. Meena Laad</th>
<th>Dr. Brajesh Pandey</th>
</tr>
</thead>
<tbody>
<tr>
<td>HOD &amp; Associate Professor</td>
<td>Associate Professor</td>
<td>Associate Professor</td>
</tr>
<tr>
<td>Dr. Dipika Jaspal Kaur</td>
<td>Dr. Neeru Bhagat</td>
<td>Dr. Neha Divekar</td>
</tr>
<tr>
<td>Assistant Professor</td>
<td>Associate Professor</td>
<td>Assistant Professor</td>
</tr>
<tr>
<td>M.Sc. Ph.D., DCA</td>
<td>M.Sc. Ph.D.</td>
<td>Ph.D. (English Literature), MA (English)</td>
</tr>
<tr>
<td>Dr. Rupali Nagar</td>
<td>Dr. Preeti Yadav</td>
<td>Dr. Shekhar Bhave</td>
</tr>
<tr>
<td>Assistant Professor</td>
<td>Assistant Professor</td>
<td>Assistant Professor</td>
</tr>
<tr>
<td>Prof. Beleyur Sreenivasa Veena</td>
<td>Prof. Vinod Koli</td>
<td>Prof. Arpita Deodikar</td>
</tr>
<tr>
<td>Assistant Professor</td>
<td>Assistant Professor</td>
<td>Assistant Professor</td>
</tr>
<tr>
<td>M.Phil, M. Sc. (Maths)</td>
<td>M.Tech (Ind. Maths &amp; CSc)</td>
<td>M.Phil (Maths), M.Sc (Maths)</td>
</tr>
<tr>
<td>Prof. Shilpa Malge</td>
<td>Prof. Panulaj Palival</td>
<td>Prof. Nilisha Itankar</td>
</tr>
<tr>
<td>Assistant Professor</td>
<td>Assistant Professor</td>
<td>Assistant Professor</td>
</tr>
<tr>
<td>M.Sc. SET</td>
<td>M.Tech (Ind Maths with CA, B.Sc. (Maths)</td>
<td>M.Sc., Pursuing Ph.D.</td>
</tr>
<tr>
<td>Prof. Sneha Gajbhiye</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Teaching Associate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>M.Tech (Ind Maths with CA) B.Sc (Maths)</td>
<td></td>
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Infrastructure

<table>
<thead>
<tr>
<th>Name of Lab</th>
<th>Major Equipments Name and Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applied Physics Lab</td>
<td>Ultrasound Interferometer, Hall Voltage Set-up, Telescope, CRO, e/m by Thomson’s method set-up</td>
</tr>
<tr>
<td>Chemistry Lab</td>
<td>Hot air oven, Muffle furnace, pH meter, Conductivity meter, TDS meter, Colorimeter, Water distillation flask, Bomb calorimeter</td>
</tr>
<tr>
<td>Language Laboratory</td>
<td>Personal Computers, Video Projector</td>
</tr>
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</table>

SYLLABUS STRUCTURE (B. Tech.)
First Year

<table>
<thead>
<tr>
<th>Semester I</th>
<th>Semester II</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering Mathematics I</td>
<td>Engineering Mathematics-II</td>
</tr>
<tr>
<td>Basic Mechanical Engineering</td>
<td>Basic Electrical and Electronics Engineering</td>
</tr>
<tr>
<td>Environmental &amp; Civil Engineering</td>
<td>Engineering Mechanics</td>
</tr>
<tr>
<td>Physics</td>
<td>Chemistry</td>
</tr>
<tr>
<td>Computer Programming</td>
<td>Engineering Graphics</td>
</tr>
<tr>
<td>Basic Mechanical Engineering Lab</td>
<td>Communication Skills</td>
</tr>
<tr>
<td>Environmental &amp; Civil Eng Lab</td>
<td>Computer Programming</td>
</tr>
<tr>
<td>Physics Lab</td>
<td>Workshop Practice</td>
</tr>
<tr>
<td>Computer Programming Lab</td>
<td>Cyber Security</td>
</tr>
<tr>
<td>Workshop Practice</td>
<td></td>
</tr>
<tr>
<td>Cyber Security</td>
<td></td>
</tr>
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</table>
DEPARTMENT OF MECHANICAL ENGINEERING

The Department of Mechanical Engineering aims to produce quality professionals in Mechanical Engineering to compete globally and excel by carrying out basic and applied research in emerging areas by forging strong industry-institute interaction. The Department offers undergraduate programme leading to B.Tech. Mechanical Engineering and post graduate programme leading to M.Tech. in Computer Aided Design and Manufacture. The Department has also synergized with Electronics and Telecommunications Engineering Department to teach courses in Mechatronics.

### Faculties

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Qualification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. T.P. Singh</td>
<td>Director, &amp; Professor, SIT</td>
<td>Ph.D.; M.E. B.E.</td>
</tr>
<tr>
<td>Col. Nitin Solke Retd.</td>
<td>HOD, Assistant Professor</td>
<td>M.E. B.E. Pursuing Ph.D</td>
</tr>
<tr>
<td>Prof. Laxman Bhargav</td>
<td>Professor</td>
<td>M.Tech. B.E.</td>
</tr>
<tr>
<td>Dr. Sandip Budhe</td>
<td>Assistant Professor</td>
<td>Ph.D. M.Tech. B.E.</td>
</tr>
<tr>
<td>Dr. Anand Kulkarni</td>
<td>Assistant Professor</td>
<td>Post Doc Research Fellow, M.S.</td>
</tr>
<tr>
<td>Prof. Nitin Khedkar</td>
<td>Associate Professor</td>
<td>M.E., B.E. Pursuing Ph.D</td>
</tr>
<tr>
<td>Prof. Vijaykumar Jatti</td>
<td>Assistant Professor</td>
<td>M.Tech. B.E., Pursuing Ph.D.</td>
</tr>
<tr>
<td>Prof. Amol B. Ubale</td>
<td>Assistant Professor</td>
<td>M.Tech., B.E., pursuing Ph.D.</td>
</tr>
<tr>
<td>Prof. Ismail Akhani</td>
<td>Assistant Professor</td>
<td>M.Tech., B.E.</td>
</tr>
<tr>
<td>Prof. Shahid Tamboli</td>
<td>Assistant Professor</td>
<td>M.Tech., AMIE</td>
</tr>
<tr>
<td>Prof. Shaikh Sarfaraj Jilani</td>
<td>Assistant Professor</td>
<td>M.Tech., B.E.</td>
</tr>
<tr>
<td>Prof. Atul Magkar</td>
<td>Associate Professor</td>
<td>M.E., B.E.</td>
</tr>
<tr>
<td>Prof. Sandeep Chinke</td>
<td>Assistant Professor</td>
<td>M.Tech., B.E.</td>
</tr>
<tr>
<td>Prof. Ravi Shekhar</td>
<td>Assistant Professor</td>
<td>M.Tech., B.E.</td>
</tr>
<tr>
<td>Prof. Ishan Kale</td>
<td>Assistant Professor</td>
<td>M.E., B.E.</td>
</tr>
<tr>
<td>Prof. Apurv Choubey</td>
<td>Assistant Professor</td>
<td>M.Tech., B.E.</td>
</tr>
<tr>
<td>Prof. Maneesh Gunjal</td>
<td>Assistant Professor</td>
<td>M.Tech., B.E.</td>
</tr>
<tr>
<td>Prof. Mandar Sapre</td>
<td>Assistant Professor</td>
<td>M.Tech., B.E.</td>
</tr>
<tr>
<td>Priya Jadhav</td>
<td>Associate Professor</td>
<td>M.E., B.E.</td>
</tr>
<tr>
<td>Prof. Prabhakar Shinde</td>
<td>Assistant Professor</td>
<td>M.Tech., B.E.</td>
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<tr>
<td>Prof. Vikas Gulia</td>
<td>Assistant Professor</td>
<td>M.E., B.E.</td>
</tr>
<tr>
<td>Prof. Sangamesh Bhure</td>
<td>Assistant Professor</td>
<td>M.Tech., B.E.</td>
</tr>
<tr>
<td>Prof. Nandish V.</td>
<td>Assistant Professor</td>
<td>M.E., B.E.</td>
</tr>
<tr>
<td>Prof. Vinay D.</td>
<td>Assistant Professor</td>
<td>M.Tech., B.E.</td>
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# Syllabus Structure for B.TECH Mechanical

<table>
<thead>
<tr>
<th>Semester III</th>
<th>Semester IV</th>
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</thead>
<tbody>
<tr>
<td>- Engineering Mathematics-III</td>
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</tr>
<tr>
<td>- Strength of materials</td>
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</tr>
<tr>
<td>- Applied Thermodynamics-I</td>
<td></td>
</tr>
<tr>
<td>- Measurement and Metrology</td>
<td></td>
</tr>
<tr>
<td>- Theory of Machines – I</td>
<td></td>
</tr>
<tr>
<td>- Manufacturing Technology</td>
<td></td>
</tr>
<tr>
<td>- Integrated Disaster Management</td>
<td></td>
</tr>
<tr>
<td>- Fluid Mechanics</td>
<td></td>
</tr>
<tr>
<td>- Machine Design - I</td>
<td></td>
</tr>
<tr>
<td>- Heat Transfer</td>
<td></td>
</tr>
<tr>
<td>- Material Science</td>
<td></td>
</tr>
<tr>
<td>- Theory of Machines - II</td>
<td></td>
</tr>
<tr>
<td>- Manufacturing practices Lab</td>
<td></td>
</tr>
<tr>
<td>- Machine Drawing and Computer Graphics Lab</td>
<td></td>
</tr>
<tr>
<td>- Inter Institute Course – I</td>
<td></td>
</tr>
<tr>
<td>- Inter Institute Course - II</td>
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<table>
<thead>
<tr>
<th>Semester V</th>
<th>Semester VI</th>
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<tbody>
<tr>
<td>- I. C. Engines</td>
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<tr>
<td>- Production Management</td>
<td></td>
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<tr>
<td>- Machine design – II</td>
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</tr>
<tr>
<td>- CAD &amp; CAM</td>
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</tr>
<tr>
<td>- Fluid Machinery</td>
<td></td>
</tr>
<tr>
<td>- Mechatronics</td>
<td></td>
</tr>
<tr>
<td>- Service Learning</td>
<td></td>
</tr>
<tr>
<td>- Internship (6 months)</td>
<td></td>
</tr>
<tr>
<td>- Seminar</td>
<td></td>
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<tr>
<td>- Global Immersion Programme</td>
<td></td>
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<tr>
<td>- Project Management</td>
<td></td>
</tr>
<tr>
<td>- Non Conventional Production Processes</td>
<td></td>
</tr>
<tr>
<td>- Pressure Vessel Design</td>
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</table>

<table>
<thead>
<tr>
<th>Semester VII</th>
<th>Semester VIII</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Operations Research</td>
<td></td>
</tr>
<tr>
<td>- Total Quality Management</td>
<td></td>
</tr>
<tr>
<td>- Numerical Methods in Engineering</td>
<td></td>
</tr>
<tr>
<td>- Mechanical System Design</td>
<td></td>
</tr>
<tr>
<td>- Elective - I</td>
<td></td>
</tr>
<tr>
<td>- B.TechProject</td>
<td></td>
</tr>
<tr>
<td>- Finite Element Methods</td>
<td></td>
</tr>
<tr>
<td>- Refrigeration and Air Conditioning</td>
<td></td>
</tr>
<tr>
<td>- Industrial Automation and Robotics</td>
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</tr>
<tr>
<td>- Elective - II</td>
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<table>
<thead>
<tr>
<th>Elective – I</th>
<th>Elective – II</th>
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<tbody>
<tr>
<td>- Tribology</td>
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<tr>
<td>- Automobile Engineering</td>
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<tr>
<td>- Non Conventional Energy Sources</td>
<td></td>
</tr>
<tr>
<td>- Gas Turbine and Jet Propulsion</td>
<td></td>
</tr>
<tr>
<td>- Mechanical Vibrations</td>
<td></td>
</tr>
<tr>
<td>- Industrial Fluid Power</td>
<td></td>
</tr>
<tr>
<td>- Power Plant Engineering</td>
<td></td>
</tr>
<tr>
<td>- Computational Fluid Dynamics</td>
<td></td>
</tr>
<tr>
<td>- Machine Tool Design</td>
<td></td>
</tr>
</tbody>
</table>
SYLLABUS STRUCTURE (M.TECH - CAD-CAM)

Semester-I
- Computer Graphics and Data Structure
- Mechatronics
- Advance Numerical Methods in Engineering
- Computer Aided Production Planning and Control
- Computer Aided Design
- Computer Graphics and Data Structure Lab
- Mechatronics Lab
- Advance Numerical Methods in Engineering Lab
- Computer Aided Design Lab
- Elective - I
  Semester-II
- Computer Aided Manufacturing
- Research Methodology
- Advanced Finite Element Method
- Advanced Industrial Automation and Robotics
- Advanced Computational Fluid Dynamics
- Emerging Concepts and Techniques in Manufacturing Management
- Elective - II
  Semester-III
- M.Tech Project I
- Review of Literature
- Technical writings and seminars
  Semester-IV
- Thesis
DEPARTMENT OF COMPUTER SCIENCE AND INFORMATION TECHNOLOGY

The Department of Computer Science and Information Technology caters to the teaching and research needs of not only the students of this department but also of the entire Institute as Computer Science studies are a part of all disciplines and programmes. The department has two B.Tech Programmes: B.Tech Computer Science & Engineering and B.Tech Information Technology. It also has one M.Tech Programme in Computer Science & Engineering. More M.Tech Programmes in specialized areas of Computer Science & Information Technology, namely Software Engineering, Network Security, e-Business and Artificial Intelligence may be started in the near future.

Faculties

<table>
<thead>
<tr>
<th>Prof. Shraddha Phansalkar</th>
<th>Dr. Himanshu Agrawal</th>
<th>Dr. Preeti Mulay</th>
<th>Prof. Ambika Pawar</th>
</tr>
</thead>
<tbody>
<tr>
<td>HOD, Assistant Professor</td>
<td>Associate Professor</td>
<td>Assistant Professor</td>
<td>Assistant Professor</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Prof. Swati Ahirrao</th>
<th>Prof. Manisha Tijare</th>
<th>Prof. Maya Shelke</th>
<th>Prof. Rahul Joshi</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assistant Professor</td>
<td>Assistant Professor</td>
<td>Assistant Professor</td>
<td>Assistant Professor</td>
</tr>
<tr>
<td>M.E., B.E., Pursuing Ph.D.</td>
<td>M.S., B.E.</td>
<td>M.E., B.E.</td>
<td>M.E., B.E.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Prof. Praveen Gubbala</th>
<th>Prof. Meeta Kumar</th>
<th>Prof. Nisha Auti</th>
<th>Prof. Seema Patil</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assistant Professor</td>
<td>Assistant Professor</td>
<td>Assistant Professor</td>
<td>Assistant Professor</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Prof. Poorva Agrawal</th>
<th>Prof. Dipti Kapoor</th>
<th>Prof. Pooja Kamat</th>
<th>Prof. Smita Mahajan</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assistant Professor</td>
<td>Assistant Professor</td>
<td>Assistant Professor</td>
<td>Assistant Professor</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Prof. Shilpa Gite</th>
<th>Prof. Suman Tanwar</th>
<th>Prof. Shruti Patil</th>
<th>Prof. Kalyani Kadam</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assistant Professor</td>
<td>Assistant Professor</td>
<td>Assistant Professor</td>
<td>Assistant Professor</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Prof. Shilpa Pawar</th>
<th>Prof. Aniket Jagtap</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Teaching Associate</td>
<td>Teaching Associate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B.E. (IT)</td>
<td>M.Tech., B.E.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Infrastructure:

<table>
<thead>
<tr>
<th>Name of Lab</th>
<th>Major Lab Equipments and Software</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Computer Lab I</strong></td>
<td>Hp 5800 Computers, Printer Hp P2035n, Hp Procurve Switch 48port, Turbo C, Java</td>
</tr>
<tr>
<td><strong>O.S. Lab</strong></td>
<td>Hp 5800 Computers, Printer HP P2035n, Oracle WDP Programme, Turbo C, Java</td>
</tr>
<tr>
<td><strong>Programming Lab I</strong></td>
<td>Hp 2110 Computers, Visual Studio 2010, Rational Rose and Turbo C</td>
</tr>
<tr>
<td><strong>Programming Lab II</strong></td>
<td>Hp 2110 Computers, Visual Studio 2010, Rational Rose and Turbo C</td>
</tr>
<tr>
<td><strong>Project Lab I</strong></td>
<td>Hp 2110 Computers, VM ware, Ubuntu, Visual Studio 2010, Dev C++</td>
</tr>
<tr>
<td><strong>Project Lab II</strong></td>
<td>Hp 2110 Computers, VM ware, Ubuntu, Visual Studio 2010, Dev C++</td>
</tr>
<tr>
<td><strong>Hardware Lab</strong></td>
<td>Hp 2110 Computers, Oracle WDP Programme, Turbo C, Java</td>
</tr>
</tbody>
</table>
## Syllabus Structure for B.Tech Computer Science

<table>
<thead>
<tr>
<th>Semester III</th>
<th>Semester IV</th>
<th>Semester V</th>
<th>Semester VI</th>
<th>Electives Computer Science</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discrete Structures</td>
<td>Engineering Mathematics - III</td>
<td>Theory of Computation</td>
<td>Internship 6 months</td>
<td>Elective I</td>
</tr>
<tr>
<td>Programming Paradigms</td>
<td>Operating Systems</td>
<td>Data Base Management Systems</td>
<td>Seminar</td>
<td>Artificial Intelligence</td>
</tr>
<tr>
<td>Fundamentals of Data Structures</td>
<td>Java and Web Technologies</td>
<td>Computer Networks</td>
<td>Global Immersion Program</td>
<td>Image Processing and Pattern Recognition</td>
</tr>
<tr>
<td>Liberal Arts</td>
<td>Microprocessor Techniques</td>
<td>Inter Institute Course – I and II</td>
<td>Project Management</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester VII</th>
<th>Semester VIII</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distributed Systems</td>
<td>B.Tech Project</td>
</tr>
<tr>
<td>System Programming</td>
<td>Compiler Construction</td>
</tr>
<tr>
<td>Object Oriented Analysis and Design</td>
<td>Advanced Database Management System</td>
</tr>
<tr>
<td>Network Security</td>
<td>Design Patterns</td>
</tr>
<tr>
<td>Computer Graphics and Multimedia</td>
<td>Software Testing and Quality Assurance</td>
</tr>
<tr>
<td>Service Learning</td>
<td>Elective – I</td>
</tr>
<tr>
<td>Free Elective</td>
<td>Elective – II</td>
</tr>
</tbody>
</table>

Elective I:
- Artificial Intelligence
- Image Processing and Pattern Recognition
- Software Product Line Management

Elective II:
- Embedded Systems
- Cloud Computing
- Advanced Computer Architecture
# Syllabus Structure for B.Tech Information Technology

## Semester III
- Discrete Structures
- Programming Paradigms
- Fundamentals of Data Structures
- Computer Organization
- Digital Electronics and Logic Circuits
- Liberal Arts

## Semester IV
- Engineering Mathematics III
- Operating Systems
- Java and Web Technologies
- Software Engineering
- Data Structures
- Microprocessor Techniques

## Semester V
- Database Management Systems
- Theory of Computation
- Computer Networks
- Internet Technologies
- Operations Research
- Inter Institute Course – I and II

## Semester VI
- Internship 6 months
- Seminar
- Global Immersion Program
- OR
  - Project
  - Internship 6-8 weeks
  - Digital Signal Processing
  - Business Informatics
  - Project Management

## Electives Information Technology

### Elective I
- SAP
- Search Engine Optimization
- Software Product Line Management

### Elective II
- Usability
- Cloud Computing
- Intelligent Systems

## Semester VII
- Distributed Systems
- System Programming
- Object Oriented Analysis and Design
- Mobile Computing
- Computer Graphics and Multimedia
- Service Learning
- Free Elective

## Semester VIII
- B.Tech Project
- Web Technologies and SOA
- Advanced Database Management Systems
- Human Computer Interaction
- Software Testing and Quality Assurance
- Elective - I
- Elective - II
SYLLABUS STRUCTURE (M.TECH - CSE)

Semester-I
- Applied Algorithms
- Advanced Computing
- Advanced Numerical Methods in Engineering
- Network Computing
- Advanced Databases
- Elective - I

Semester-II
- Wireless Communications and Mobile Computing
- Research Methodology in Engineering
- Digital Image Processing
- Design Patterns
- Intelligent Systems
- Software Testing and Quality Assurance
- Elective - II

Semester-III
- M.Tech Project
- Review of Literature
- Technical Writing and Seminars

Semester-IV
- Thesis
DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING

The Department of Electronics and Telecommunication Engineering is actively engaged in imparting quality education in the identified areas to its B. Tech and M. Tech students. The department has a B. Tech programme with an intake of 120 students and a M. Tech programme in E & TC. In addition to this the department has taken on itself the responsibility of teaching subjects related to its domain to the students of other branches i.e. Computer Science and Mechanical Engineering. The department plans to start more M. Tech programmes in specialized areas like Embedded Systems, Signal Processing and VLSI design. Research leading to PhD in focus areas of E & TC is being actively pursued by the department.

Faculties

<table>
<thead>
<tr>
<th>Name</th>
<th>Designation</th>
<th>Qualification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Narayan Pisharoty</td>
<td>Professor</td>
<td>PhD, M. Tech.</td>
</tr>
<tr>
<td>Dr. Neela Rayavarapu</td>
<td>H.O.D., Professor</td>
<td>M.E., B.E.</td>
</tr>
<tr>
<td>Prof. Debasish Adhikari</td>
<td>Assistant Professor</td>
<td>M.E., B.E.</td>
</tr>
<tr>
<td>Prof. Priti Shahane</td>
<td>Assistant Professor</td>
<td>M.E., B.E.</td>
</tr>
<tr>
<td>Dr. Akshay Malhotra</td>
<td>Deputy Director</td>
<td>PhD, M.S.</td>
</tr>
<tr>
<td>Prof. Praveen Naidu</td>
<td>Assistant Professor</td>
<td>M.Tech., B.Tech</td>
</tr>
<tr>
<td>Prof. Swati Kadlag</td>
<td>Assistant Professor</td>
<td>M.E., B.E.</td>
</tr>
<tr>
<td>Prof. Priyanka Tupe-Waghmare</td>
<td>Assistant Professor</td>
<td>M.E., B.E.</td>
</tr>
<tr>
<td>Prof. Sushma Parihar</td>
<td>Assistant Professor</td>
<td>M.Tech., B.E.</td>
</tr>
<tr>
<td>Prof. Ankita Wanchoo</td>
<td>Assistant Professor</td>
<td>M.E., B.E.</td>
</tr>
<tr>
<td>Prof. Parul Garg</td>
<td>Assistant Professor</td>
<td>M.Tech., B.E.</td>
</tr>
<tr>
<td>Dr. Kaushik Das</td>
<td>Assistant Professor</td>
<td>M.E., B.E.</td>
</tr>
<tr>
<td>Prof. Gaurav Bansod</td>
<td>Assistant Professor</td>
<td>M.Tech., B.E.</td>
</tr>
<tr>
<td>Prof. Shah Priteshkumar</td>
<td>Assistant Professor</td>
<td>M.Tech., B.E.</td>
</tr>
<tr>
<td>Prof. Abhya Pal Singh</td>
<td>Assistant Professor</td>
<td>M.Tech., B.E.</td>
</tr>
<tr>
<td>Prof. Sanjeev Kumar</td>
<td>Assistant Professor</td>
<td>M.E., B.E.</td>
</tr>
<tr>
<td>Prof. Tuhina Oli</td>
<td>Assistant Professor</td>
<td>M.Tech., B.E.</td>
</tr>
<tr>
<td>Prof. Dhara Shah</td>
<td>Assistant Professor</td>
<td>M.Tech., B.E.</td>
</tr>
<tr>
<td>Prof. Shilpa Hudurkar</td>
<td>Assistant Professor</td>
<td>M.Tech., B.E.</td>
</tr>
<tr>
<td>Prof. Apoorva Shastri</td>
<td>Assistant Professor</td>
<td>M.Tech., B.E.</td>
</tr>
<tr>
<td>Prof. Hemlata Choudhary</td>
<td>Assistant Professor, pursuing P.h.d.</td>
<td></td>
</tr>
</tbody>
</table>
## Infrastructure

<table>
<thead>
<tr>
<th>Name of the Lab</th>
<th>Major Equipments in Lab</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Digital Electronics Lab</strong></td>
<td>Trainer Kits, IC Tester</td>
</tr>
<tr>
<td><strong>Electronic Devices and Circuits Lab</strong></td>
<td>Digital Storage Oscilloscopes, CRO, Function Generators, Power supplies</td>
</tr>
<tr>
<td><strong>Microprocessor and Microcontroller Lab</strong></td>
<td>Development Boards of 8051, 8086, FIRE BIRD V, P89V51RD2 Robotic Research Platform, Universal IC Programmer</td>
</tr>
<tr>
<td><strong>Communication Lab</strong></td>
<td>Advanced Communication kits, DSO’s, Spectrum Analyzer, Arbitrary Function Generator, TV and DVD Trainer kit, GSM and CDMA kits, Optical Fibre and Microwave Communication Kits</td>
</tr>
<tr>
<td><strong>VLSI Lab</strong></td>
<td>Spartan 3 FPGA Boards.</td>
</tr>
<tr>
<td><strong>Power Electronics Lab</strong></td>
<td>Power scope 1 MHZ, Power Electronics Kits, True RMS 4 &amp; 1/2 Digit Bench Top DMM. Software: Labview 11.0</td>
</tr>
</tbody>
</table>
## Syllabus Structure for B.Tech Electronics and Telecommunications

### Semester III:
- Engineering Mathematics – II
- Semiconductor Devices and Circuits
- Network Analysis and Synthesis
- Electrical Machines
- Digital Electronics
- Liberal Arts

### Semester IV:
- Signals and Systems
- Control Systems
- Analog Circuit Design
- Electromagnetic Field Theory
- Electronic Measurements and Instrumentation
- Liberal Arts

### Semester V:
- Data Structures and Algorithms
- Digital Signal and Processing
- Communication System Engineering
- Microcontrollers and Applications
- Power Electronics

### Semester VI:
- Embedded System Design
- VLSI Design
- Digital Communication
- Microwaves and Radar
- Service Learning
- Engineering Economics
- Free Elective

### Semester VII:
- Internship 6 months
- Seminar
- Global Immersion Programme
  - OR
  - Project
  - Internship 8 weeks
  - Software Testing and Quality Assurance
  - System on Chip

### Semester VIII:
- B.Tech Project
- Advanced Communication Systems
- Computer Communication Networks
- Antenna and Wave Propagation
- Elective - I
- Elective - II

### Electives II:
- Automation and Robotics
- Advanced Digital Signal Processing
- FPGA Design
- Cellular and Mobile Communication
SYLLABUS STRUCTURE FOR M.TECH ELECTRONICS AND TELECOMMUNICATIONS

Semester-I
- Advanced Digital Signal Processing
- Mechatronics
- Random Variable and Stochastic Processes
- Non-Linear Systems Computer
- Advanced Engineering Electromagnetics and Radiation Systems
- Cyber Security

Semester-II
- Research Methodology in Engineering
- Wireless Communication and Mobile Computing
- Alternate Energy
- Radar and Remote Sensing
- Digital Image Processing
- Elective II

Semester-III
- M.Tech Project
- Review of Literature
- Technical Writing and Seminars

Semester-IV
- Thesis
The Department of Civil Engineering endeavours to produce competent engineers who would contribute to Infrastructural Development for the nation. The academic programmes offered by the department include a B. Tech course in Civil Engineering with an intake of 60. It is proposed to start a M. Tech course in Geoinformatics and Surveying Technology with effect from the academic session 2013-14.

### Faculties

<table>
<thead>
<tr>
<th>Name</th>
<th>Designation</th>
<th>Qualification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Kanchan. C. Khare</td>
<td>HOD, Professor</td>
<td>PhD, ME, BE</td>
</tr>
<tr>
<td>Prof. Rajesh Kherde</td>
<td>Assistant Professor</td>
<td>M.E., B.E.</td>
</tr>
<tr>
<td>Prof. Rushikesh Kulkarni</td>
<td>Assistant Professor</td>
<td>M.E., B.E.</td>
</tr>
<tr>
<td>Prof. Vaishnavi Dabir</td>
<td>Assistant Professor</td>
<td>M.Tech., B.E.</td>
</tr>
<tr>
<td>Prof. M.ugdha Kshirsagar</td>
<td>Assistant Professor</td>
<td>M.Tech., B.E.</td>
</tr>
<tr>
<td>Prof. Dhanya N</td>
<td>Assistant Professor</td>
<td>M.Tech., B.E.</td>
</tr>
<tr>
<td>Prof. Sagar Kolekar</td>
<td>Assistant Professor</td>
<td>M.Tech., B.Tech.</td>
</tr>
<tr>
<td>Prof. Humera Khanum</td>
<td>Assistant Professor</td>
<td>M.Tech., B.E.</td>
</tr>
<tr>
<td>Prof. Rajashekhar Juja</td>
<td>Assistant Professor</td>
<td>M.E., B.E.</td>
</tr>
<tr>
<td>Prof. Vinaykumar Jatti</td>
<td>Assistant Professor</td>
<td>M.Tech., B.E.</td>
</tr>
<tr>
<td>Prof. Prasanna Pentlavalli</td>
<td>Assistant Professor</td>
<td>M.E., B.Tech</td>
</tr>
<tr>
<td>Prof. Anjali Kulkarni</td>
<td>Assistant Professor</td>
<td>M.Tech., B.E.</td>
</tr>
<tr>
<td>Prof. Mohammed.</td>
<td>Adjunct Faculty</td>
<td>M.E., B.E.</td>
</tr>
<tr>
<td>Prof. Sayali Sandbhor</td>
<td>Assistant Professor</td>
<td>M.Tech., B.E.</td>
</tr>
</tbody>
</table>
## Infrastructure

<table>
<thead>
<tr>
<th>Name of Lab</th>
<th>Major Equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fluid Mechanics</td>
<td>Titrating Flume Apparatus, Turbines and Pumps, Wind tunnel, Bemoulli’s Apparatus, Centrifugal &amp; Reciprocating pump</td>
</tr>
<tr>
<td>Surveying</td>
<td>Total Station, Theodolite, Global positioning system, Transit Theodolite, Ultrasonic distance meter</td>
</tr>
<tr>
<td>Concrete Technology</td>
<td>Compression Testing Machine, Aggregate Testing Machines, Los Angeles Abrasion Testing machine, Aggregate Impact Tester</td>
</tr>
<tr>
<td>Geotechnical Engineering</td>
<td>Triaxial Test Apparatus, Direct Shear Apparatus, Unconfined Compression Testing, Proctor Density Apparatus,</td>
</tr>
<tr>
<td>Environmental Engineering</td>
<td>B.O.D. Incubator, Autoclave, C.O.D. Reflux Apparatus, Bacteriological Incubator, Digital Flocculator</td>
</tr>
<tr>
<td>Engineering Geology</td>
<td>Mineral Specimens, 3D Maps &amp; Models</td>
</tr>
</tbody>
</table>
## Syllabus Structure for B.Tech Civil

### Semester III
- Solid Mechanics
- Fluid Mechanics-I
- Surveying I
- Building Construction and Materials
- Engineering Geology
- Integrated Disaster Management
- Liberal Arts

### Semester IV
- Engineering Mathematics - III
- Structural Analysis - I
- Building Design and Drawing
- Fluid Mechanics II
- Concrete Technology
- Service Learning

### Semester V
- Structural Analysis-II
- Transportation Engineering-I
- Quantity Surveying and Valuation
- Environmental Engineering - I
- Structural Design – I
- Surveying – II
- Free Elective

### Semester VI
- Environmental Engineering-II
- Geotechnical Engineering - I
- Construction Techniques and Management
- Structural Design-II
- Transportation Engineering - II
- Water Resources Engineering

### Electives
#### Elective – I
- Infrastructure Engineering
- Systems Approach in Civil Engineering
- Geographic Information Systems

#### Elective – II
- Advanced Design of RCC structures
- Earthquake Engineering
- Pavement Design and Construction
- Ferro Cement

### Semester VII
#### Group - A
- Internship 6 months
- Seminar
- Global Immersion Program

#### Group B
- Project
- Internship 6-8 weeks
- Water Power Engineering
- Earth Structures
- Project Management

### Semester VIII
- B.Tech Project
- Geotechnical Engineering - II
- Structural Design - III
- Dams and Hydraulic Structures
- Elective-I
- Elective - II
Symbiosis Institute of Technology