SCTR’s
Pune Institute of Computer Technology
Pioneer in the Field of Computer Education

First Year Engineering (FE)
Information Brochure 2022-23
To be the leading and most sought after Institute of education and research in emerging engineering and technology disciplines that attracts, retains, and sustains gifted individuals of significant potential.
PICT
Always a Step Ahead

Results & Placement

• In May 2022 B.E. Examination conducted by SPPU, PICT topped the list with highest number of distinctions (96.47%) and pass percentage of 98.40.
• 150+ Reputed Companies visit PICT regularly for placement.
• A.Y. 2021-22 fetched job opportunities for 671 students by hosting around 100 niche and 50+ variant companies with an average package of 11.08 LPA and highest pay package of 1.12 Cr.
• In ongoing placement process of A.Y. 2022-23, 395 students are placed with an average package of 15.50 LPA.

Ranking & Accreditation

• AICTE Approved and Affiliated to Savitribai Phule Pune University (SPPU)
• PICT is ranked 8th among all the Private Engineering Institutes in India. It is ranked 1st among all the Private Engineering Institutes in Maharashtra and has successfully secured 4th position among all the Engineering Institutes including IITs, NITs, and Govt. Colleges in Maharashtra (as per the survey conducted by EDU-RAND, 2015).
• As per the NIRF 2021 Ranking, PICT is placed in the ranking band : 201 to 250.
• UGC Approved and ISO 9001:2015 Certified.
• All UG programmes are NBA Accredited (CE and E&TE – 6 times, IT – 4 times).
• NAAC Accredited (3rd Cycle).
• Grade “A” by DTE, Govt. of Maharashtra.
The PICT Research Policy encourages faculty and students to carry out research and innovative activities by providing all the necessary support including financial assistance in few cases. To inculcate and encourage research culture, various facilities/cells/groups are created like Start-up and Innovations Cell (SIC)/Entrepreneurship & Development Cell (EDC)/Department/Central Research Facility, Domain Research Groups, Intellectual Property Rights Cell (IPRC), Industry Institute Partnership Cell (IIPC), International Relations Cell (IRC), Centre of Excellence (CoE)/Innovation, etc.

- The faculty and students are motivated, encouraged, supported, and guided to submit research and consultancy proposals to various funding agencies/industries. In addition to this, a small research fund is also provided in case there is no/insufficient fund received from external agencies.
- We have been receiving research projects/funds from various agencies like AICTE, DRDO, ISRO, DST, RGSTC, SPPU, etc. For the last three years, the total sanctioned research fund is around 2 Cr and the total consultancy amount for the last one year is around 20 Lakhs.
- The focus of research is in the areas of AI & ML, Data Science, Wireless Communication including 5G Communication and Cognitive Radio, Blockchain & System Security, Cyber Security and Ethical Hacking, Mechatronics, VLSI, IOT, and Industry 4.0.
- Research Cells/groups are formed to streamline the research in domains like Advanced Communication, AI/ML Applications (including Healthcare & Agriculture), Computational Linguistic, Intelligent Learning, Big Data & Text Analytics, and Software Application development.
- PICT is a SPPU recognized research centre (PhD)
PICT teams are honored at various HACKATHON and ROBOCON competitions at the National as well as International levels.

- 6 Teams won the prizes in Grand Finale of Smart India HACKATHON (SIH) 2022 and won prize money ₹ 1 Lakh each. 11 Teams won the prizes in Grand Finale of SIH 2019 & topped the list all over India.
- PICT Team was the runner up in #CodeForCOVID19 Global Category and won the prize of $10,000 and Third Runner up at the Singapore-India International HACKATHON.
- PICT had won a prize of ₹ 2 Lakh at Voice Based Payments National HACKATHON, prize of ₹ 1 Lakh each in Hardware and Software Edition at Smart India HACKATHON 2020, Second prize at D3 HACKATHON, and a Special Mention Award at Manipal HACKATHON.
- PICT Team had also won the Prestigious Microsoft Imagine Cup.
PICT Governance

Management

Mr. R. S. Kothavale
Managing Trustee, SCTR

Mr. Swastik Sirsikar
Secretary, SCTR

Leadership

Dr. P.T. Kulkarni
Director

Dr. S.T. Gandhe
Principal

Heads of the Department

Mr. E.M. Reddy
First Year Engineering

Dr. G.V. Kale
Computer Engineering

Dr. M.V. Munot
Electronics & Telecommunication Engineering

Dr. A.S. Ghotkar
Information Technology
ABOUT PICT

Pune Institute of Computer Technology (popularly known as PICT) an elite academic Institute playing an inspiring role in the education sector since its establishment in 1983 and it is located in National Education Hub Pune, which is rightly known as “The Oxford of the East”. We believe in value-based quality education in the field of Information and Communication Technology (ICT) and we are constantly endeavouring to achieve higher levels of technical excellence by offering under-graduate (UG) programmes in Computer Engineering (CE), Electronics & Telecommunication Engineering (E&TE), and Information Technology (IT); and post-graduate (PG) programmes in Computer Engineering, Data Science, Electronics & Communication (Wireless Communication Technology), and Information Technology. It is also a Savitribai Phule Pune University (SPPU) recognized Research Center in Computer Engineering and Electronics & Telecommunication Engineering.

In an endeavour to generate opportunities for the students to realize their dream of starting up their own business/enterprise, and to empower the young talented students to transform their research/findings/innovative ideas into a successful product or service that creates values, PICT has established various Cells. We are creating a space/ opportunity to empower young talented individuals to be a job provider than a job seeker, in line with Govt. of India’s most ambitious schemes like, Make in India and AatmaNirbhar Bharat Abhiyan.

Seat Matrix (UG)

<table>
<thead>
<tr>
<th>Course</th>
<th>Sanctioned Intake (SI)</th>
<th>CAP Seats (80% of SI)</th>
<th>Institute Level Quota (Management) (20% of SI)</th>
<th>Supernumerary Seats (15% of SI)</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>Maharashtra State (M.S.) Candidates (65% of SI)</td>
<td>All India Candidates (15% of SI)</td>
<td>Other than NRI (15% of SI)</td>
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<tr>
<td>Computer Engineering</td>
<td>240</td>
<td>156</td>
<td>36</td>
<td>36</td>
</tr>
<tr>
<td>Electronics and Telecommunication Engineering</td>
<td>240</td>
<td>156</td>
<td>36</td>
<td>36</td>
</tr>
<tr>
<td>Information Technology</td>
<td>180</td>
<td>117</td>
<td>27</td>
<td>27</td>
</tr>
</tbody>
</table>

In addition to the above, few seats are reserved for EWS (10%), TFWS (5%), J&K (1 per course), and JK/PMSSS (approx. 8 to 10)
Our campus spread over 5 acres, is a garden of peace and tranquillity which gives students the safe haven to explore their careers as well as identities as citizens of India.

PICT is the second home to over 346 hostellers, 3000+ day scholars, and 250+ staff. Our campus is also equipped with Internet and ICT facilities along with the generator and UPS backup. The campus accommodates the differently abled persons by providing facilities like wheelchair, Lifts, Ramp, etc. The campus also has a well-maintained Guest house that ensure comfortable stay for visitors.

The Canteen serves as the source of mouth-watering and hygienic food which helps students' power through their days in the institute and also caters to the needs of faculty, parents, and visitors to the campus. The dining hall is filled with students who enjoy their friends’ company while having their meals or brunch.

Sports and recreational facilities like basketball, volleyball, table tennis, chess and carrom are available to students as well as faculty. Sports and cultural activities are organized regularly in order to keep the spirits high and lead a balanced and healthy lifestyle. Intra-college as well as intercollege events allow students to explore their potential to the highest extent.

Yoga, one of the most proven methods to keep our body and mind fresh, is organised regularly for students as well as faculty.

To take care of students and staff health, 24x7 medical facility is available in the campus.
Infrastructure Facilities

- Smart Classroom
- Laboratory
- Library
- Digital Library
- 3D Printing Lab
- Start-up & Innovation Cell
- Entrepreneurship & Development Cell
- Computer Center
Infrastructure Facilities

Auditorium

CE Seminar Hall

IT Seminar Hall

E&TE Seminar Hall

Workshop

Drawing Hall
Sports Facilities

Volleyball Court

Basketball Court

Table Tennis

Cricket Net

Chess

Carrom
Co-curricular Activities

PICT- ACM Student Chapter (PASC)

PICT – IEEE Students Branch (PISB)

PICT- CSI Student Branch (PCSБ)

Impetus & Concepts (InC)

PICT Automobile Club (PAC)

PICT DebSoc

PICT MUN
Lively Environment

Extra-curricular Activities

Purushottam Karandak Winner -2015

MIT Arohan Winners -2022

International Yoga Day

India’s First Intercolligate Teacher’s Sport Competition Winner

Diya Oswal represented in All India Inter University Fencing Competition held at GNDU Amritsar
First Year Engineering Department has well qualified, dynamic, and experienced faculty who motivate the students to prosper in their academic and professional career. The faculty not only provide quality education but also mentor the students to harness their inner capabilities. The faculty are encouraged and provided necessary assistance and guidance to promote research culture. Many faculty are contributing to research activities through funded projects of SPPU. The faculty arrange, contribute, and participate in various technical conferences, seminars, workshops, FDPs, STTPs at State and National level. A good number of papers are published by our faculty in reputed National and International Journals. Department is also supported by equally energetic support staff. Department is committed to implement 3- weeks Induction Program for freshers as per the guidelines given by AICTE and SPPU. Strong UHV team look after the successful conduction of Student Induction Program.
First Year Engineering Faculty

Basic Electrical Engineering

Mrs. A. A. Joshi
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Email: aajoshi@pict.edu

Mr. S. U. Bagade
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Mr. A. S. Bodhe
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M. Tech.- Power Electronics
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Mr. V. R. Bhoi
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Mr. K. D. Kulkarni
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Engineering Chemistry

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Dr. P. G. Umape
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Email: pgumape@pict.edu

Mr. A. M. Kulkarni
Asst. Professor
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M.Sc.-Mathematics, NET, SET
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Mrs. V. J. Damle
Lecturer (Sr. Scale)
M.Sc.- Mathematics, M. Phil.
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First Year Engineering Faculty

Engineering Mathematics- I/II/III

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Email: pspatil@pict.edu

Mr. H. S. Masal
Asst. Professor
M.Sc.- Mathematics, NET, M. Phil.
Email: hasmasal@pict.edu

Ms. S. S. Patil
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Email: sujataspatil@pict.edu

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Email: namdeemanwar@pict.edu

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Email: grtungaskar@pict.edu

Mr. M. K. Kadam
Asst. Professor
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Email: mkkadam@pict.edu

Basic Electronics Engineering

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Ph.D. - Electronics Engineering
Email: ddpradhan@pict.edu

Dr. P. B. Pawar
Asst. Professor
Ph.D. & Post. Doc.- Electronics & Telecommunication
Email: pbpawar@pict.edu

Ms. H. S. Jain
Asst. Professor
M.E.- Digital Systems
Email: hsjain@pict.edu

Programming & Problem Solving

Dr. S. A. Joshi
Professor
Ph.D. – Computer Engineering
Email: sajoshi@pict.edu

Ms. K. Gangrade
Asst. Professor
M. Tech -Computer Science
Email: kgangrade@pict.edu
<table>
<thead>
<tr>
<th>Name</th>
<th>Qualification</th>
<th>Laboratory</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mrs. Archana V. Patil</td>
<td>DCE</td>
<td>Civil Engineering</td>
</tr>
<tr>
<td>Mr. Vijay A. Manmode</td>
<td>DME, Pursuing AMIE</td>
<td>Mechanical Engineering</td>
</tr>
<tr>
<td>Mr. Malhar V. Shaligram</td>
<td>DME</td>
<td>Mechanical Engineering</td>
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<tr>
<td>Mrs. Jayashree N. Buradkar</td>
<td>M.E. (Power Systems)</td>
<td>Electrical Engineering</td>
</tr>
<tr>
<td>Mr. Aviansh D. Torane</td>
<td>BCA</td>
<td>Engineering Physics</td>
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<tr>
<td>Ms. Prajakta D. Vanarse</td>
<td>M.Sc.</td>
<td>Engineering Chemistry</td>
</tr>
<tr>
<td>Mr. Sandeep N. Deokate</td>
<td>ITI, NCTVT</td>
<td>Workshop</td>
</tr>
<tr>
<td>Mr. Nandkishor S. Mirajkar</td>
<td>ITI, NCTVT</td>
<td>Workshop</td>
</tr>
<tr>
<td>Mr. Gajendra S. Khairmode</td>
<td>ITI, NCTVT</td>
<td>Workshop</td>
</tr>
</tbody>
</table>

**FE Department Laboratories**

- Engineering Mechanics
- Systems in Mechanical Engineering
- Basic Electrical Engineering
- Basic Electronics Engineering
- Engineering Physics
- Engineering Chemistry
College Toppers in University Examination (A.Y. 2021-22) 
First Year Engineering

Following Students scored 10/10 SGPA in the FE Examination conducted by SPPU

Taras Ashwin
Rank 1 (97.38 %)

Bhoyar Sunay
Rank 2 (96.31 %)

Date Aditi
Rank 2 (96.31 %)
The Training and Placement (T&P) Cell plays an integral role in journey of the students, aspiring for dream jobs. The T&P Cell at PICT serves as an aerodrome for the flights of the young undergrads and post grads to be taken-off to greater horizons and heights beyond imagination. Every incoming batch raises the bar for the upcoming batches and remarkably takes the baton ahead.

The T&P Cell has a firm conviction about the inevitable role of the soft skills in the overall development of the buddy engineers, regardless of their career choices. The T&P Cell, thus caters to the to the aspirations and the interests of the students and endeavours to make them professionally well-equipped. Eligibility test like AMCAT are conducted along with various training sessions.

Regardless of the hard-hitting pandemic wave, the Academic Year 2020-21 witnessed complete online placement.
<table>
<thead>
<tr>
<th>ABS</th>
<th>Dunzo</th>
<th>Jombay</th>
<th>Sagitec</th>
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<tr>
<td>Accenture</td>
<td>ElasticRun</td>
<td>K12 Techno Services</td>
<td>Salesforce</td>
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<td>ACI Worldwide</td>
<td>Endurance International</td>
<td>Kylas</td>
<td>Samsung Semiconductor</td>
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<tr>
<td>Acquia</td>
<td>EnthralTech</td>
<td>L &amp; T Infotech</td>
<td>Scalex Technology</td>
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<td>ADP</td>
<td>EPIKIndiFi</td>
<td>Mastercard</td>
<td>Schlumberger</td>
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<td>Agiliad</td>
<td>eQ Technologic</td>
<td>McKinley &amp; Rice</td>
<td>Screen Magic</td>
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<td>AlefEdge</td>
<td>Ernst &amp; Young</td>
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<td>SE2</td>
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<td>Altizon Inc.</td>
<td>Espressif Systems</td>
<td>Medly Pharmacy</td>
<td>Sedemac Mechatronics</td>
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<td>Amdocs</td>
<td>Ementis Cloud</td>
<td>Merilytics</td>
<td>Sell.do</td>
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<td>Amura</td>
<td>Extramarks Education</td>
<td>Mindstix Software Labs</td>
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<td>Anchanto</td>
<td>e-Zest</td>
<td>MindTickle</td>
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<td>Fabric Inc</td>
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<td>oneXtel</td>
<td>TCS Ninja</td>
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<td>Goldman Sachs</td>
<td>Persistent</td>
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<td>Bitwise</td>
<td>Growisto</td>
<td>PharmEasy</td>
<td>TIBCO</td>
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<td>bizAmica Software</td>
<td>HCL Technologies</td>
<td>PhonePe</td>
<td>Tracelink</td>
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<td>PlanetSpark</td>
<td>TripStack</td>
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<td>BrightChamps</td>
<td>Hexaview Technologies</td>
<td>Platform9 Systems</td>
<td>UBS</td>
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<td>BUDDI.AI</td>
<td>Hexaware Technologies</td>
<td>Principal Global Services</td>
<td>udChalo</td>
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<td>CakeSoft Technologies</td>
<td>Hitachi Vantara</td>
<td>Product Dossier</td>
<td>Ugam</td>
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<td>Uolo.com</td>
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<td>Purplle.com</td>
<td>Vadini Infocenter</td>
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<td>Cloudwerx</td>
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<td>Quantiphi</td>
<td>Valuence Holdings</td>
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<td>IDFC FIRST Bank</td>
<td>RackWare Technologies</td>
<td>Veritas Technologies</td>
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<td>IGT Solutions</td>
<td>Rakuten</td>
<td>Vertical Fox</td>
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<td>Incubyte</td>
<td>Rayden Design</td>
<td>Vodafone</td>
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<td>Infogen Labs</td>
<td>RBL Bank</td>
<td>Wednesday Solutions</td>
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<td>CrowdStrike</td>
<td>Infosys</td>
<td>Red Panda</td>
<td>Whiz.ai</td>
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<td>Delhivery</td>
<td>Inteliment</td>
<td>RIA Advisory</td>
<td>Winjit Technologies</td>
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<td>Deqode</td>
<td>iQ Digital</td>
<td>rtCamp</td>
<td>Yardi</td>
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<tr>
<td>Deutsche Bank</td>
<td>Jaro Education</td>
<td>Rudder Analytics</td>
<td>Zlen</td>
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<td>Druva</td>
<td>JISA Softech</td>
<td>Ryussi Technologies</td>
<td>Zocdoc</td>
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<tr>
<td>ZS Associates</td>
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</table>
Placement Statistics
Showcasing Continual Improvement

Number of Companies Hosted and Median Salary

Percentage of the Students Placed in Niche Companies
Due to the unprecedented COVID-19 pandemic situation, last year's (AY 2021-22) FE Welcome Address and Student Induction Program (SIP) was conducted online. Experts, Eminent speakers from various fields, and Social Organizations contributed on various fronts in the successful conduction of the program.
<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Scholarships</th>
<th>Criteria</th>
</tr>
</thead>
</table>
| 1      | CybageKhushboo                | 1. More than 60% marks in Class 10, and Class 10+2 or Diploma final examination.  
2. The total family income less than Rs. 3 lakh per annum.  
3. Admission obtained on the basis of merit and not through capitation.  
[http://www.cybagekhushboo.org/login](http://www.cybagekhushboo.org/login) |
| 2      | Lila Poonawalla Foundation    | Economically backward girl student (scholarly)                                                                                                                                                           |
| 3      | Hinduja Foundation            | Based on Higher Secondary School Certificate Examination merit                                                                                                                                          |
| 4      | Persistent Foundation         | Economically backward girl student (scholarly)                                                                                                                                                           |
| 5      | Katalyst                      | Only for girls of FE & Direct Second Year (DSE) having 80% marks in PCM of Class XII/ Diploma  

**Note:** Please contact PICT Admin Office for more details about Scholarships.
<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Govt. Scholarship</th>
<th>Documents Required</th>
<th>When to Submit</th>
</tr>
</thead>
</table>
| 1.     | Scholarship / Freeship & Rajarshi Chattrapati Shahu Maharaj scheme (EBC/EWS) [https://mahadbtmahait.gov.in](https://mahadbtmahait.gov.in) | a) Admission Confirmation Letter (CAP ID)  
b) Caste Certificate (if applicable)  
c) Caste Validity Certificate (if applicable)  
d) Non-Creamy Layer Certificate valid upto 31st March 2023. (if applicable)  
e) Father’s Income Certificate Issued by Tahasildar in original upto 31st March 2023.  
f) Last Qualifying Exam Mark Statement  
g) Bank Account (Photocopy)  
h) UID/EID No. (Photocopy)  
i) Fee Receipt  
j) GAP Certificate /Affidavit (if applicable)  
k) Leaving Certificate  
l) Domicile Certificate  
m) Father’s Death Certificate (if income certificate mentioning name of the mother)  
n) Parent’s declaration form | Schedule will be displayed on the Digital Notice Board |
|        |                    | **Note:** Annual income of the family should not exceed Rs. 8 Lakh. For OBC, SBC, VJNT & OPEN (EBC/EWS) Category Students. |
| 2.     | Punjbrao Deshmukh Hostel Allowance | All Attested Documents in Sr. No.1 and  
a) Registered rent agreement/registered hostel’s certificate  
b) Parent’s Adhaar card  
c) Parent’s declaration form | |
| 3.     | University Examination | a) Photocopy of Last Qualifying Examination Marks Statement | |

**Note:**

a. If any of the certificate(s)/document(s) in original is/are not submitted within specified time limit, the admission of the student may be cancelled as per the rules, by the Competent Authority.

b. All admissions (FE / SE Direct) are subject to approval from the competent authorities.
TABLE-1 First Year Engineering _Structure for Semester-I

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Teaching Scheme (Hours/Week)</th>
<th>Examination Scheme and Marks</th>
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<tr>
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<td></td>
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<td>Practical</td>
<td>Tutorial</td>
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<tr>
<td>107001</td>
<td>Engineering Mathematics-I</td>
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<td>01</td>
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<tr>
<td>107002/</td>
<td>Engineering Physics/Engineering Chemistry</td>
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<td>02</td>
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<td>102003</td>
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<td>02</td>
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<td>--</td>
</tr>
<tr>
<td>104010</td>
<td>Electronics Engineering</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>110005/</td>
<td>Programming and Problem Solving /</td>
<td>03</td>
<td>02</td>
<td>--</td>
</tr>
<tr>
<td>101011</td>
<td>Engineering Mechanics</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>111006</td>
<td>Workshop @</td>
<td>--</td>
<td>02</td>
<td>--</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Total</td>
<td>16</td>
<td>10</td>
</tr>
<tr>
<td>101007</td>
<td>Audit Course 1&amp;</td>
<td>02</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Environmental Studies-I</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Induction Program : 2 weeks at the beginning of semester-I and 1 week at beginning of semester-II

TABLE-2 First Year Engineering _Structure for Semester-II

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Teaching Scheme (Hours/Week)</th>
<th>Examination Scheme and Marks</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Theory</td>
<td>Practical</td>
<td>Tutorial</td>
</tr>
<tr>
<td>107008</td>
<td>Engineering Mathematics-II</td>
<td>04</td>
<td>--</td>
<td>01</td>
</tr>
<tr>
<td>107002/</td>
<td>Engineering Physics/Engineering Chemistry</td>
<td>04</td>
<td>02</td>
<td>--</td>
</tr>
<tr>
<td>107009</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>103004/</td>
<td>Basic Electrical Engineering / Basic</td>
<td>03</td>
<td>02</td>
<td>--</td>
</tr>
<tr>
<td>104010</td>
<td>Electronics Engineering</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>110005/</td>
<td>Programming and Problem Solving /</td>
<td>03</td>
<td>02</td>
<td>--</td>
</tr>
<tr>
<td>101011</td>
<td>Engineering Mechanics</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>110013</td>
<td>Project Based Learning§</td>
<td>--</td>
<td>04</td>
<td>--</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Total</td>
<td>15</td>
<td>12</td>
</tr>
<tr>
<td>101014</td>
<td>Audit Course 2&amp;</td>
<td>02</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Environmental Studies-II</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Environmental Studies-II
Ω: 1 Credit for Engineering Graphics theory has to be awarded on the basis of End Semester Examination of 50 marks while 1 credit of tutorial and practical shall be awarded on internal continuous assessment only.

@: Credit for the course of workshop practical is to be awarded on the basis of continuous assessment / submission of job work.

§: Project based learning (PBL) requires continuous mentoring by faculty throughout the semester for successful completion of the tasks selected by the students per batch. While assigning the teaching workload a load of 2 hours/week/batch needs to be considered for the faculty involved. The Batch needs to be divided into sub-groups of 5 to 6 students. Assignments / activities / models / projects etc. under project based learning is carried throughout semester and Credit for PBL has to be awarded on the basis of internal continuous assessment and evaluation at the end of semester.

&: Audit course for Environmental Studies I and II (As per D.O.No.F.13-1/2000 (EA/ENV/COS-I) dated 14 May 2019) is mandatory but non-credit course. Examination has to be conducted at the end of semester for award of grade at college level. Grade awarded for audit course shall not be calculated for grade point & CGPA. Audit course for Physical education is mandatory non-credit course. Examination has to be conducted at the end of semester for award of grade at college level. Grade awarded for audit course shall not be calculated for grade point & CGPA.

*: Professional courses include – Engineering Science Courses including Workshop, Drawing, Basics of Electrical/Electronics/Mechanical/Computer /Civil Engineering, Humanities and Social Sciences including Management/Finance Management Courses, Basic Science Courses and Professional Core Courses.

^: Professional Elective courses relevant to chosen specialization/branch and Open Electives (interdisciplinary and/or emerging technology).

#: There will be mandatory Non-Credit Course per Semester viz-Environmental Studies, Indian Constitution, Essence of Indian Traditional Knowledge, financial Management and courses introduced time to time by university or apex bodies.

$: Internship to be completed after semester 5 and to be assessed in semester 6. Internship will be of 4 to 6 weeks maximum.
## Credit Structure for UG Programme in Engineering

<table>
<thead>
<tr>
<th>Course Work</th>
<th>Semester</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>I</td>
<td>II</td>
</tr>
<tr>
<td>Professional Theory Courses *</td>
<td>17</td>
<td>16</td>
</tr>
<tr>
<td>Elective Courses^</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Laboratory Courses/ Continuous Assessment/TW</td>
<td>5</td>
<td>4</td>
</tr>
<tr>
<td>Seminar &amp; Communication Skills</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Project Work</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Project Based Learning</td>
<td>-</td>
<td>2</td>
</tr>
<tr>
<td>Internship$</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

| Total                                    | 22 | 22 | 22  | 22 | 21 | 20 | 20  | 170   |

<table>
<thead>
<tr>
<th>Mandatory Non-Credit (Graded) Audit Course # per semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Induction Program at First Year Engineering</td>
</tr>
<tr>
<td>3 weeks duration ( 2 weeks at the beginning of Sem-I &amp; 1 week at the beginning of Sem -II)</td>
</tr>
</tbody>
</table>

### Examination Scheme: (Rule 2 of ‘Rules and Regulations for UG Credit System’)

- The theory examination shall be conducted in two phases for all the subjects of Semester-I to Semester-VIII.

### Structure of Question Paper: (Rule 3 of ‘Rules and Regulations for UG Credit System’)

- Marks weightage to be given for Phase-I In-Semester Examination (ISE) and Phase-II End- Semester Examination (ESE) is as shown below:

<table>
<thead>
<tr>
<th>Unit Number</th>
<th>Phase-I ISE Marks Weightage</th>
<th>Phase-II ESE Marks Weightage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>15</td>
<td>-</td>
</tr>
<tr>
<td>2</td>
<td>15</td>
<td>-</td>
</tr>
<tr>
<td>3</td>
<td>-</td>
<td>18</td>
</tr>
<tr>
<td>4</td>
<td>-</td>
<td>17</td>
</tr>
<tr>
<td>5</td>
<td>-</td>
<td>18</td>
</tr>
<tr>
<td>6</td>
<td>-</td>
<td>17</td>
</tr>
</tbody>
</table>

- Paper will have only one section and two questions for ISE and four questions for ESE. For each question there will be an alternate question based on same unit and of the same marks.
- Framing of questions should be according to Anderson/Bloom’s Taxonomy and disseminated through the question papers with a mention of course outcomes as well.
Rules of Passing: (Rule 5 of ‘Rules and Regulations for UG Credit System’)

- To pass the Term Work / Practical / Oral/ Presentation, the student has to earn Minimum of 40 percent marks in each respective examination head.
- To pass the Theory Subject head, the student has to earn minimum of 40 percent marks in End Semester Examination and 40 percent total marks (In-Semester Examination and End-Semester Examination).
- The failing student can repeat the End-Semester Examination to pass the head in any semester and the In-Semester Examination marks will be retained as it is. OR the failing student can repeat for the End-Semester Examination as well as In-Semester Examination for the head of Even semester in the Even semester only and for the head of Odd semester in the Odd semester only for the theory head.
- To earn credits of a course (Theory/Term Work/Practical/Oral/Presentation) student must pass the course with minimum passing marks/grade.
- Student can apply only for the Revaluation/Photocopying of End-Semester theory examination.

Rules of ATKT (Allowed to Keep Term): (Rule 6 of ‘Rules and Regulations for UG Credit System’)

- A student can register for the third semester (SE), if he/she earns minimum 50% credits of the total of first and second semesters (FE).
- A student can register for the fifth semester (TE), if he/she earns minimum 50% credits of the total of third and fourth semesters (SE) and all the credits of first and second semester (FE).
- A student can register for the seventh semester(BE), if he/she earns minimum 50% credits of the total of fifth and sixth semesters (TE) and all the credits of third and forth semester (SE).
- A student will be awarded the Bachelor's Degree, if he/she earns 170 credits and clears all the mandatory Non-credit courses in respective semesters.
Assessment and Grade Point Average: (Rule 7 of ‘Rules and Regulations for UG Credit System’)

➢ Marks/Grade/Grade Point, A grade is assigned to each head based on marks obtained by a student in examination of the course. The marks obtained in In-Semester and End-Semester Examination are considered together to calculate the grade of the course. These grades, their equivalent grade points are given in following table:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Grade Point</th>
<th>Percentage of Marks Obtained</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>O</td>
<td>10</td>
<td>90-100</td>
<td>Outstanding</td>
</tr>
<tr>
<td>A</td>
<td>9</td>
<td>80-89</td>
<td>Very Good</td>
</tr>
<tr>
<td>B</td>
<td>8</td>
<td>70-79</td>
<td>Good</td>
</tr>
<tr>
<td>C</td>
<td>7</td>
<td>60-69</td>
<td>Fair</td>
</tr>
<tr>
<td>D</td>
<td>6</td>
<td>50-59</td>
<td>Average</td>
</tr>
<tr>
<td>E</td>
<td>5</td>
<td>40-49</td>
<td>Below Average</td>
</tr>
<tr>
<td>F</td>
<td>0</td>
<td>Below 40</td>
<td>Fail</td>
</tr>
<tr>
<td>FX</td>
<td>0</td>
<td>-</td>
<td>Detained, Repeat the Course</td>
</tr>
<tr>
<td>IC</td>
<td>0</td>
<td>-</td>
<td>Incomplete Course-- Absent for Exam but continued for the course</td>
</tr>
<tr>
<td>AC</td>
<td>-</td>
<td>-</td>
<td>Audit Course Completed</td>
</tr>
<tr>
<td>ACN</td>
<td>-</td>
<td>-</td>
<td>Audit Course Not Completed</td>
</tr>
</tbody>
</table>

Passing Grade:

- The grades O, A, B, C, D, E are passing grades.
- A candidate acquiring any one of these grades in a course shall be declared as PASS. And student shall earn the credits for a course only if the student gets passing grade in that course.
- F Grade - The grade F shall be treated as a failure grade.
- The student with F grade will have to pass the concerned course by re-appearing for the examination.
- The student with F grade for any stage of the Project Work will have to carry out additional work/ improvement as suggested by the examiners and re-appear for the examination.
• AC and ACN Grade - The student registered for audit course shall be awarded the grade AC after satisfactory completion of audit course and shall be included in the Semester grade report for that course, provided student has the minimum attendance as prescribed by the SPPU and satisfactory In-Semester performance and secured a passing grade in that course. Student who is unable to complete audit course will be awarded as ACN grade.

• FX Grade - The grade FX in a course is awarded by the college, if a student does not maintain the minimum attendance in the Lecture / Tutorial class as prescribed by the SPPU and/or his performance during the semester is not satisfactory and/or he/she fails in the Term Work head of that course.

• The student with FX grade in a given course is not permitted to take the End Semester Examination in that course. Such a student will have to re-register for the course.

• The student with F / FX in a course shall not be awarded any credits for that course.

PERFORMANCE INDICES: (Rule 8 of ‘Rules and Regulations for UG Credit System’)

• The semester end grade sheet will contain grades for the courses along with titles and SGPA. The Final grade sheet and the transcript shall contain CGPA.

• SGPA - The performance of a student in a semester is indicated by a number called the Semester Grade Point Average (SGPA). The SGPA is the weighted average of the grade points obtained in all the courses, seminars and projects registered by the student during the semester.

• Semester Grade Point Average(SGPA) =

\[
SGPA = \frac{\sum_{i=1}^{p} C_i G_i}{\sum_{i=1}^{p} C_i}
\]

\[
SGPA = \frac{\text{Grade Point Earned} \times \text{Credit for each course}}{\text{Total Credits}}
\]

For Example: suppose in a given semester, a student has registered for five courses having credits C1, C2, C3, C4, and C5; his / her grade points in those courses are G1, G2, G3, G4, and G5 respectively.
Then student's SGPA = \[
\frac{C1G1 + C2G2 + C3G3 + C4G4 + C5G5}{C1 + C2 + C3 + C4 + C5}
\]

SGPA and CGPA is calculated up to two decimal places by rounding off.

- **CGPA**: The CGPA is the weighted average of the grade points obtained in all the courses (Theory/Term Work/Practical/Oral/Presentation) of first semester to eighth semester for the students admitted in the First Year and third to eighth semester for the students directly admitted at Second Year. It is calculated in the same manner as the SGPA.

- In case of a student passing a course in which he/she failed or in case of improvement, the earlier grade would be replaced by the new grade in calculation of the SGPA and CGPA.

RESULT: (Rule 9 of ‘Rules and Regulations for UG Credit System’)

- Based on the performance of the student in the semester examinations, the SPPU will declare the results and issue the Semester Grade sheets.

- The class shall be awarded to a student on the CGPA calculated as mentioned in the above Rule.

- The award of the class shall be as per the following table:

<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>CGPA</th>
<th>Class of the Degree Awarded</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>7.75 or More</td>
<td>First Class with Distinction</td>
</tr>
<tr>
<td>2</td>
<td>6.75 or More but less than 7.75</td>
<td>First Class</td>
</tr>
<tr>
<td>3</td>
<td>6.25 or More but less than 6.75</td>
<td>Higher Second Class</td>
</tr>
<tr>
<td>4</td>
<td>5.5 or More but less than 6.25</td>
<td>Second Class</td>
</tr>
</tbody>
</table>

❖ Please refer the following links of SPPU, Pune:

- **Link for Detailed Course and Credit structure**

- **Link for First Year Engineering 2019 Pattern Syllabus**
  - [http://collegecirculars.unipune.ac.in/sites/documents/Syllabus%202019/First%20Year%20Engineering%202019%20Patt.Syllabus_05.072019.pdf](http://collegecirculars.unipune.ac.in/sites/documents/Syllabus%202019/First%20Year%20Engineering%202019%20Patt.Syllabus_05.072019.pdf)

❖ Note: Please visit SPPU website [http://www.unipune.ac.in/](http://www.unipune.ac.in/) for regular updates.
1. As per SPPU Circular VMM/2017-18/904 dated 04/06/2018, if a student is found involved in any sort of ragging, his/her admission will be cancelled.

2. Strict action will be taken against ragging as per the Maharashtra Prohibition of Ragging Act 1999 and the ‘Prevention and Prohibition’ of ragging as published in AICTE approval process handbook; and their amendments published from time to time. Maharashtra Prohibition of Ragging Act 1999 which is in effect from 15th May 1999 has the following provisions for Action against Ragging:
   a) Ragging within or outside the campus is prohibited.
   b) Whosoever directly or indirectly commits, participates in, abets, or propagates ragging within or outside an educational institution shall, on conviction, be punished with imprisonment for a term up to 2 years and / or penalty which may extend to Ten Thousand Rupees.
   c) Any student convicted of an offence of ragging shall be dismissed from the educational institution and such student shall not be admitted in any other educational institution for a period of five years from the date of order of such dismissal.

3. The Institute has constituted an Anti-Ragging Committee to prevent ragging incidents. The students are advised to contact the Director/Principal/Head of Department/Anti-Ragging Committee Members/Hostel Warden for any support/ information. The complaints regarding ragging should be brought to the notice of the Director/Principal. In addition to Anti-Ragging Committee, the College Grievance Redressal Cell (CGRC) is also constituted. The contact numbers and email IDs are provided in this brochure at the end.

4. For UGC regulations on Curbing the Menace of Ragging in Higher Education Institutions, refer to below link:
   http://www.unipune.ac.in/other_academic_and_service_units/board_students_welfare/pdf/BS%20Guidenine%20Book%2026102017_27102017.pdf

5. Use website www.antiragging.in and www.amanmovement.org to fill and submit the anti-ragging undertaking form.

   Anti-Ragging- helpline number:
   1800 180 5522 (Toll Free)
   E-mail: helpline@antiragging.in
1. Students should read notices (main/department notice board) regularly and visit PICT website (www.pict.edu), for all information, notices, course material, laboratory assignments, etc.

2. Attendance Policy:
   - 75% attendance in each head of passing of theory and/or practical, oral, term work is compulsory as prescribed by SPPU. Student who do not satisfy this condition will be detained and his/her term will not be granted. The concerned authorities will be informed accordingly.
   - However, the shortage of attendance can be condoned by the Principal on the recommendations of the HOD, on account of bona-fide illness, participation in competitions (Co-curricular and Extra-curricular), valid personal reasons etc.; with prior permission from HOD/Principal, as per the University norms.
   - In case, a student is permitted to participate in the N.S.S. Camps or to undergo a Training or Military Duties/Inter-University/Inter-Collegiate Competitions /Intra-Collegiate Competitions/Sports and Games by the University or College authorities, the actual number of days spent for participation in these activities shall be counted towards the attendance of the student. However, prior permission from the Class Coordinator/HOD is mandatory. Student should submit the participation certificate soon after the event.
   - The students are encouraged to undergo internship/training activities as per the College/SPPU policy. The students are expected maintain minimum 75% attendance in all subjects for smooth participation in Training & Placement, and Internship activities, etc.

3. To discourage unauthorized absence, penalties may be imposed (as per decision taken from time to time). Participation in mass bunking will be viewed very seriously and shall invite appropriate punitive actions.

4. Term Work Marks will be calculated transparently on continuous assessment basis.

5. Parents are requested to meet/contact the concerned teachers at least once in a month.

6. Every student has a Teacher Counselor cum Guardian (TG). Students & Parents must be in contact with their TG on regular basis. They can seek guidance/help from TG, in case they face any problems. The parents should contact respective TG for any clarification related to their ward.
PICT Alumni Association (PAA) try to foster a meaningful, ever lasting relationship between Alumni and Almamater. The Alumni committee aims to strengthen ties between PICT and the Alumni. PICT page on LinkedIn has more than 11,000 followers. There is a group named “PICT Alumni Association” on LinkedIn and Facebook. PPA also provide support to various events such as InC and Credenz Tech Dayz (CTD). The then Principal of PICT Dr. Prahlad T. Kulkarni conducted Alumni Meet at San Francisco, Boston, and New York in the year 2018.
Contact Information

PICT
Phone: +91-020-24371101
Fax: +91-020-24364741

DIRECTOR
Email: director@pict.edu
Phone: +91-020-24372478 (D)

PRINCIPAL
Email: principal@pict.edu
Phone: +91-020-24371101
Ext. 104

REGISTRAR
Email: registrar@pict.edu
Phone: +91-020-24371101
Ext.120

HoD - FIRST YEAR ENGINEERING
Email: hodfe@pict.edu
Phone: +91-020-24371101 Ext.500

ANTI-RAGGING COMMITTEE INCHARGE
Email: pdjadhav@pict.edu
Mobile: +91 9226419331
Phone: +91-020-24371101 Ext.556

Important Links

Pune Institute of Computer Technology
https://www.pict.edu/

All India Council for Technical Education
https://www.aicte-india.org/

Directorate of Technical Education Maharashtra
http://www.dtemaharashtra.gov.in/index.html

Savitribai Phule Pune University
http://www.unipune.ac.in/

DBT Portal
https://mahadbtmahait.gov.in/

IEEE Xplore Digital Library
https://ieeexplore.ieee.org/Xplore/home.jsp

Access Engineering Library
https://www.accessengineeringlibrary.com/

PICT Digital Library
10.10.15.220:8080/library

Internal Complaint Committee
https://pict.edu/various_committees/
Map

From Katraj Dairy (Parlor 2)/Sarhad School to PICT

<table>
<thead>
<tr>
<th>Distance from</th>
<th>km</th>
</tr>
</thead>
<tbody>
<tr>
<td>Airport</td>
<td>18</td>
</tr>
<tr>
<td>Pune Railway Station</td>
<td>10</td>
</tr>
<tr>
<td>Shivaji Nagar Bus Stop</td>
<td>09</td>
</tr>
<tr>
<td>Swargate Bus Stop</td>
<td>06</td>
</tr>
</tbody>
</table>
SCTR’s
Pune Institute of Computer Technology

Survey No. 27, Near Trimurti Chowk, Dhankawadi,
Pune-411043

Phone: +91 20 24371101 Fax: 020 24364741
Website: www.pict.edu