



**ADMISSION BROCHURE**  
**2019-2020**



# About Institute

**INDIAN INSTITUTE OF INFORMATION TECHNOLOGY PUNE (IIITP)** is committed to provide the best in class technical education in the country. The institute is facilitating knowledge transfer whilst keeping up with the latest development pedagogy. IIITP is an Institute of national importance established by the Ministry of Human Resource Development (MHRD), Government of India along with Government of Maharashtra and Industry partners on Not-for-profit Public Private Partnership (N-PPP) basis. IIIT Pune is functioning from a transit campus located at Sadumbre, Tal. Maval, Pune. The permanent campus for IIIT Pune is over 100 acres coming up at Nanoli village, Tal. Maval, Pune. IIIT Pune offers undergraduate programs (UG), postgraduate (PG) and Ph.D. in Electronics & Communications Engineering and Computer Science Engineering. The academic curriculum for the UG programs is designed to match international standards in engineering education with a view to generate skilled manpower. It is actively working on revamping its UG curriculum to meet the future IT requirements. Apart from academics, the institute provides comprehensive environment that promotes art, culture, sports, societal contributions and self-governance. UG students participate in ongoing research and technology development, as a result, a vibrant UG programme exists to fulfill the needs of society.



## Dear Students,

Congratulations and a very warm welcome to Indian Institute of Information Technology, Pune (IIITP). You are entering a new phase of your life and must be eagerly waiting for the new experiences and life in a new environment.

Here in IIITP,

we emphasize serious academics along with harmonious and complete development as a human being. This brochure has been put together to provide essential information about IIITP needed to help you get acquainted with the institute.



# Contents

1 MESSAGE FROM DIRECTOR: TO PROSPECTIVE STUDENTS AND PARENTS OF IIITP .....	4
2 ADMISSION PROCEDURE .....	5
2.1 HOW TO APPLY .....	5
2.2 DOCUMENTS REQUIRED AT PHYSICAL REGISTRATION.....	5
2.3 TENTATIVE FEE STRUCTURE.....	6
2.4 INSTRUCTIONS ABOUT ‘HOW TO REACH IIITP’ .....	6
3 ACADEMICS AT IIITP.....	7
3.1 ACADEMIC DEPARTMENTS .....	7
3.2 COURSE STRUCTURES .....	8
4 CO-CURRICULAR .....	9
4.1 LECTURE SERIES .....	9
4.2 INTERNATIONAL COLLEGIATE PROGRAMMING CONTEST (ICPC).....	9
5 TRAINING AND PLACEMENT.....	10
6 LIFE AT IIITP.....	11
6.1 CAMPUS.....	11
6.2 FACILITIES.....	11
6.3 STUDENT CLUBS.....	12
6.4 STUDENT'S ACHIEVEMENTS.....	13
7 INDUCTION SCHEDULE .....	14

# 1. Message from Director: To Prospective Students and Parents of IIITP



Congratulations on your academic achievements, Indian Institute of Information Technology, established in 2016, is one among the fastest growing IIITs in 20 newly established IIITs by the MHRD, Government of India and industry partners as Not-for-profit Public Private Partnership (N-PPP) Institution. ROLTA Ltd. and HUBTOWN Ltd. are the industry partners of IIIT Pune. IIIT, Pune is dedicated towards imparting high quality technical education and a long term vision to the students. Our focus lies not just on academic brilliance but also on knowledge that is pervasive in areas of emerging technologies. We, through our learning and research programs aim at building such applications of information technology whose benefits percolate even to grass root levels. We, not only believe in making our students the superior scholars but responsible members of society. Ours is a complete institute in the truest sense of the term, endowed with facilities and an environment that is conducive to learning. The institute focuses on interaction with the best institutes in terms of academic exchange programmes, transfer of credits, internships, industry-academia meets, etc. Every department in the institute has state-of-the-art laboratories. Several IndustryInstitute partnership programmes, soft-skill trainings, competitions, internships and student projects are organized to provide communication skills, commitment, and ethics for comprehensive growth of an individual. The institute promotes Innovation and Entrepreneurship by encouraging and supporting innovative and out of the box ideas. Transformation doesn't just happen. It takes a plan and a support system. So, while studying at IIITP, you'll be expected to work hard, have a true and right attitude in the subject area. Walk boldly and confidently through the next leg of your life's exciting and fruitful journey. Best of luck.

# 2. ADMISSION PROCEDURE

## 2.1 HOW TO APPLY

The mode of admission for the undergraduate courses is based on the JEE (Main) Score. The seat allotment to the B.Tech programmes is based on All India Rank published by CBSE. Admission is based only on All India Rank (AIR). State Rank is not Considered for admission into IIITs. Joint Seat Allocation Authority will be conducting the counseling of JoSAA 2019 for all qualified candidates. Registrations for JoSAA 2019 counseling will be open tentatively in the second week of June. All qualified candidates will have to register for JoSAA counselling 2019 and meet the required eligibility criteria.

## 2.2 DOCUMENTS REQUIRED AT REGISTRATION

1. Provisional allotment letter (after Special Round allotment)
2. Document verification letter issued by reporting centre
3. Printout of locked choices with Terms & Conditions duly signed by the candidate (original)
4. Original documents (to be provided by Candidate for verification purpose)
5. Admit Card of JEE(Main)-2018
6. Score Card/Rank Card of JEE(Main)-2018
7. Class X Mark sheet for proof of date of birth
8. Class XII marks sheet (qualifying examination)
9. Transfer Certificate
10. Migration Certificate (for candidates outside Andhra Pradesh)
11. Proof of Initial fee payment to JoSAA/CSAB
12. Proof for Institute balance fee payment receipt
13. Aadhar Card
14. Photo ID Card/ Passport
15. PAN card (applicable for candidates opting for Educational Loan)
16. Certificate to denote category (SC/ST/OBC-NCL,etc)
17. Income proof of parent/s in the form of salary certificate from employer (for
18. Scholarship, Education Loan, etc.)  
Medical certificate for persons with disabilities (PwD)
19. 1st page copy of student bank pass book containing the student account number, address, etc.

## 2.3 TENTATIVE FEE STRUCTURE

SR. NO.	PARTICULARS	AMOUNT (INR)
<b>A</b>	<b>Tuition Fee</b>	<b>1,80,000/-</b>
<b>B</b>	<b>Development Fee</b>	<b>20,000/-</b>
<b>C</b>	<b>Other Fee</b>	
	Student Gymkhana Fee	1,300/-
	Training & Placement	700/-
	Library Fee	7,000/-
	Laboratory	8,000/-
	Internet	6,000/-
	Gathering	1,500/-
	<b>Sub Total</b>	<b>24,500/-</b>
<b>D</b>	<b>College Fee</b>	
	Caution Deposit (Refundable	5,000/-
	Student Aid Fund	700/-
	Examination Fee	1,500/-
	Identity Card	300/-
	Student Insurance Fee	500/-
	<b>Sub Total</b>	<b>8,000/-</b>
<b>E</b>	<b>Alumni Association Fee</b>	<b>2,000/-</b>
	<b>Grand Total (A + B + C + D + E)</b>	<b>2,34,500/-</b>
	Hostel Fee	24,000/-
	Hostel Deposit	5,000/-
	Mess Charges for one semester*	20,000/-

\* Tentative charges payable to the Mess contractor directly.

## 2.4 INSTRUCTIONS ON 'HOW TO REACH IIITP'

IIITP is conducting from the transit campus located at Sadumbre, Talegaon-Chakan Road, Tal. Maval. Dist. Pune-412109. It is possible to reach IIITP using public or private transport from listed points;

1. Pune Airport - 36 km
2. Pune Railway Station, distance from IIITP is 37 km
3. By taxi from Shivaji Nagar, distance from IIITP is 34 km
4. Nearest Bus Stand; Dehu Gaon, distance from IIITP is 5 km
5. Nearest Railway Station; Talegaon-Dabhade, distance from IIITP is 8 km



# 3. Academics at IIITP

Academics at IIITP is focused on advancement through knowledge and systematic understanding of course materials and their application. We are committed to foster a qualitative educational environment for spherical development of an individual. Our focus lies not just on academic brilliance but also on knowledge that is pervasive in areas of emerging technologies.

## 3.1 ACADEMIC DEPARTMENTS

### Electronics & Communication Engineering

Electronics and Communication Engineering (ECE) focuses on the design of the underlying hardware systems and its operation. The curriculum is directed to provide sound background of the electronic design and applications in major areas such as Communication, Advanced VLSI, Image Processing, Embedded Systems; while encouraging development of necessary skills for integration of hardware and software components.

### Computer Science & Engineering

Computer Science Engineering (CSE) focuses on deep learning, software systems, data analysis and its management. The curriculum provides exposure to machine learning, cloud computing, data handling and intrinsic coding in various languages. It focuses on theoretical knowledge while encouraging development of necessary skills to fulfill industry needs. Experts from industries are invited for delivering talks on recent trends in the field.

### Courses Offered

1. B.Tech in Computer Science & Engineering (60) 2. B.Tech in Electronics & Communication Engineering (60) 3. M.Tech in Computer Science & Engineering (18) 4. M.Tech in Electronics & Communication Engineering (18)

# 3.2 COURSE STRUCTURES

## 3.2.1 B.Tech in Computer Science & Engineering

FIRST YEAR					
SEMESTER I			SEMESTER II		
Sr. No.	Course Title	L-T-P-C	Sr. No.	Course Title	L-T-P-C
1	Electrical Engineering	3-0-2-4	1	Linear Algebra and Differential Equations	3-0-0-3
2	Calculus	3-0-0-3	2	Data Structures and Algorithms	3-0-2-4
3	Computer Programming: Concepts and Practice	3-0-4-5	3	Discrete Mathematics & Graph Theory	3-0-0-3
4	Foundations of Computer Science	2-0-2-3	4	Digital Circuits System	3-0-2-4
5	Language and Writing Skills	2-0-0-2	5	Bio Medical Science & Engineering	3-0-0-3
6	Professional Ethics and Social Responsibilities	2-0-0-1	6	HUL1XX	3-0-0-3
7	Environmental Science	2-0-0-2	7	Independent Project	0-0-2-1
8	Independent Project	0-0-2-1			

SECOND YEAR					
SEMESTER-III			SEMESTER-IV		
Sr. No.	Course Title	L-T-P-C	Sr. No.	Course Title	L-T-P-C
1	Probability and Statistics	3-0-0-3	1	Data Base and Management Systems	3-0-2-4
2	Analysis and Design of Algorithms	3-0-2-4	2	Computer Graphics	3-0-2-4
3	Computer Organization and Architecture	3-0-0-3	3	Operation Research	3-0-0-3
4	Operating System	3-0-2-4	4	Software Engineering	3-0-2-4
5	Object Oriented Programming Language	3-0-2-4	5	Elective-I	3-0-0-3
6	Theory of Computation	3-0-0-3	6	Elective-II	3-0-0-3
7	Python Programming	1-0-2-2	7	Advanced Programming	1-0-2-2
8	Independent Project	0-0-2-1	8	Minor Project	0-0-4-2

THIRD YEAR					
SEMESTER-V			SEMESTER-VI		
Sr. No.	Course Title	L-T-P-C	Sr. No.	Course Title	L-T-P-C
1	Artificial Intelligence	3-0-0-3	1	Information Security Systems	3-0-0-3
2	Data Mining and Data Warehouse	3-0-0-3	2	Machine Learning	3-0-2-4
3	Computer Network	3-0-2-4	3	Cloud Computing	3-0-2-4
4	Compiler Design	3-0-2-4	4	Elective-I	3-0-0-3
5	Elective-I	3-0-0-3	5	Elective-II	3-0-0-3
6	Elective-II	3-0-0-3	6	Elective-III	3-0-0-3
7	Minor Project	0-0-4-2	7	Minor Project	0-0-4-2
8	Internship	0-0-2-1			

<b>FOURTH YEAR</b>					
<b>SEMESTER-VII</b>			<b>SEMESTER-VIII</b>		
<b>Sr. No.</b>	<b>Course Title</b>	<b>L-T-P-C</b>	<b>Sr. No.</b>	<b>Course Title</b>	<b>L-T-P-C</b>
1	Modeling and Simulation	3-0-2-4	1	Major Project/ Internship	0-0-32-16
2	Big Data Analytics	3-0-2-4			
3	Fundamentals of Internet of Things	3-0-0-3			
4	Elective-I	3-0-0-3			
5	Elective-II	3-0-0-3			
6	Elective-III	3-0-0-3			
7	Major Project	0-0-6-3			
8	Internship	0-0-2-1			

## 3.2.1 B.Tech in Electronics & Communication Engineering

FIRST YEAR					
SEMESTER I			SEMESTER II		
Sr. No.	Course Title	L-T-P-C	Sr. No.	Course Title	L-T-P-C
1	Introduction to Electrical Engineering	3- 0- 2- 4	1	Data Structures & Algorithms	3-0-2-4
2	Introduction to Computer Programming	3-0- 0-3	2	Digital Circuits and Systems	3-0-2-4
3	Calculus	3-0-0-3	3	Discrete Mathematical Structures	3-0-0-3
4	Electronic Devices	3-0-2-4	4	Linear Algebra and Differential Equations	3-0-0-3
5	Environment al Science	2-0-0-2	5	Biomedical Science & Engg.	3-0-0-3
6	Computer Programming Lab	0-0-4-2	6	Consensus and Values	3-0-0-3
7	Language and Writing Skills	2-0-0-2	7	Independent Project-II	0-0-2-1
8	Professional Ethics and Social Responsibility	0-0-2-1	8	Yoga Course	0-0-2-1
9	Independent Project-I	0-0-2-1			

SECOND YEAR					
SEMESTER-III			SEMESTER-IV		
Sr. No.	Course Title	L-T-P-C	Sr. No.	Course Title	L-T-P-C
1	Circuit Theory	3-0-0-3	1	Communication Engineering	3-0-2-4
2	Object- oriented programming System(OOPs)	3-0-2-4	2	Control System Engineering	3-0-2-4
3	Probability and Stochastic Processes	3-0-0-3	3	Digital Signal Processing	3-0-2-4
4	Analog Electronic Circuits	3-0-2-4	4	Engineering Electromagnetics	3-0-0-3
5	Signals and Systems	3-0-2-4	5	Departmental Elective	3-0-0-3
6	Python Programming	1-0-2-2	6	Cyber Physical System	1-0-0-1
7	Introduction to Internet of Things (IoT)	1-0-0-1	7	Intro to AI and ML	1-0-0-1
8	Smart Sensors	1-0-0-1	8	Advanced Programming	1-0-2-2
9	Independent Project-III	0-0-2-1	9	Independent Project-IV	0-0-2-1

THIRD YEAR					
SEMESTER-V			SEMESTER-VI		
Sr. No.	Course Title	L-T-P-C	Sr. No.	Course Title	L-T-P-C
1	Introduction to VLSI Design	3-0-2-4	1	Information Theory & Coding	3-0-0-3
2	Digital Communication	3-0-2-4	2	Antennas and Wave Propagation	3-0-0-3
3	RF and Microwave Engineering	3-0-2-4	3	Embedded System	3-0-2-4
4	Computer System &Architecture	3-0-0-3	4	DE	3-0-0-3
5	Smart City	1-0-0-1	5	DE	3-0-2-4
6	Introduction to Drones	1-0-0-1	6	OE	3-0-0-3
7	Operating System	3-0-2-4	7	Smart Grid	1-0-0-1
8	Minor Project-I	0-0-4-2	8	Minor Project II	0-0-4-2
9	Internship-I	0-0-2-1	9	HDL Lab	0-0-2-1

FOURTH YEAR					
SEMESTER-VII			SEMESTER-VIII		
Sr. No.	Course Title	L-T-P-C	Sr. No.	Course Title	L-T-P-C
1	Departmental Elective	3-0-2-4	1	B.Tech Major Project-II /Internship	0-0-32-16
2	Open Elective	3-0-0-3			
3	Open Elective	3-0-0-3			
4	Open Elective	3-0-0-3			
5	Departmental Elective	3-0-0-3			
6	Departmental Elective	3-0-0-3			
7	B.Tech Major Project-I	0-0-6-3			
8	Internship-II	0-0-2-1			

### List of Departmental Electives:

1. Wireless Communication
2. Speech Processing
3. Human Computer Interaction
4. Data Communication and Networking
5. Electric Drives
6. Data Mining and Warehousing
7. Semiconductor process technology
8. Embedded Systems
9. Operation Research
10. Introduction to Analog Integrated Circuits
11. RADAR, SONAR and Navigation System
12. Software testing and Evaluation
13. Digital Hardware Design
14. Satellite Communication
15. Optoelectronics
16. Measurement and Instrumentation Techniques
17. Optical Communication
18. MEMS
19. Image and Video Processing
20. Robotics and Automation
21. Computer Vision
22. Independent Study (EL)

### List of Open Electives:

1. Machine Intelligence and Learning
2. Distributed Systems
3. Artificial Intelligence
4. Multicore Systems
5. Real Time Systems
6. Soft Computing
7. Big Data and Analytics
8. CAD for VLSI
9. Deep Learning
10. Natural Language Processing
11. Computer Communication
12. Bioinformatics
13. Cloud Computing
14. Machine Learning
15. Artificial Intelligence

# 4. Co-Curricular

## 4.1 LECTURE SERIES

At IIIT, Pune we believe that a successful future cannot be built without reflecting into the past and learning from our experiences as well as those of others. As an extension to this ideology we invite scholars who could talk on subjects of broad interest. Around five or six such seminars are held every year. Apart from specialist researchers in their respective domains, eminent historians, policy makers, technologists, and leading thinkers have presented their ideas. Through this initiative, we want our students and faculty to develop a broader perspective of their responsibility to society and to give them an opportunity to listen to remarkable life stories of our esteemed panel of speakers.

In this endeavor, we have hosted eminent personalities such as; Dr. Shekhar Bhansali (Prof. & Chair, ECE, Florida Inter. University), Dr. Debasish Ghosh (Prof. IISc Bangalore), Dr. B.K. Murthy ( MeitY, GOI.), Dr. K.K. Pathak (Prof. IIT BHU), Ms. Yesoda Bhargava (Samsung Research, India), Dr. A.K. Tripathi, Prof. Lakhmi C.Jain ( University of Technology, Sydney), Dr. Swagatam Das ( ISI Kolkata ), Dr. Phalguni Gupta ( NITTTR, Kolkata ). It has been our constant enterprise to ensure that we invite dignitaries from a wider array of professions so as to develop a holistic and broad view of life and society.

## 4.2 ACM- INTERNATIONAL COLLEGIATE PROGRAMMING CONTEST (ICPC)

IIIT Pune hosted this year's International Collegiate Programming Contest (ICPC) on December 17 and 18, 2018. Best programmers in the world battled for the ICPC championship at IIIT Pune. ICPC is an annual multi-tiered competitive programming competition among the universities of the world. It operates autonomous regional contests covering six continents culminating in a global World Finals every year. In 2017, 49,935 students from 3,098 universities in 111 countries participated. ICPC is often dubbed as the "Olympics of Computer Programming".

A total of 25 host sites were selected for the Asia region. In the Pune-Gwalior region, IIIT Pune hosted the contest in Pune whereas ABV-IIITM Gwalior hosted the contest in Gwalior. More than 700 teams from premier institutes of the country participated in the Pune-Gwalior leg of the competition.



## 5. Training & Placement

Training and Placement Cell (T&P Cell) provides a window of opportunities to the students over a wide variety of careers in a broad spectrum of Industries/Organizations in India and abroad. It serves as a single point of contact for the organizations on various Industry-Institute initiatives like Industrial Training, Guest Lectures, FDP's, Alumni Lectures. The T&P Cell provides necessary guidance to the students for career planning and personality development. Orientation program for placements, career guidance seminars on Higher Education are organized to help the students for planning their careers. IIIT, Pune invites various public and private sector organizations for campus recruitment of final year students. Along with core-sector jobs, students show a keen interest for jobs in IT and Software, Management and Consultancy firms, Educational Organizations and even in Start-Ups. While core disciplines attract students with strong technical know-how, other sectors invariably open doors to students interested in dynamic work-profiles and aptitude-based skill requirements

# 6. Life at IIITP

IIITP provides the exemplary college life. The curriculum not only provides the core technical courses required for career oriented endeavors but also focuses on molding the student as a whole by providing life-skills as part of their extra-curricular.

## 6.1 CAMPUS

IIIT Pune, located in a transit campus at Sadumbre, Tal. Maval, Dist. Pune. IIITP building includes the academic building has lecture halls, tutorial rooms, computer and electronics labs and offices for the administration and faculty. The climate for the larger part of the year is quite pleasant in Pune. The winters are favorably cool around 12° C. In summers are generally temperature varies with threshold being 32-35 degrees.

## 6.2 FACILITIES

The hostel at IIITP is equipped with spacious rooms, internet wifi, and other everyday things required by student. IIITP provides gyms and indoor sports facilities like Table Tennis, Chess and Carrom and outdoor sports like Badminton, Cricket, Volleyball, Kabaddi etc. The music club is equipped with Musical instruments for live performances and melodious ambiance. Canteen at IIITP serving Indian food, the students mess committee along with the faculty in-charge plans the menu for the canteen and inspect for the quality and cleanliness time to time. Alongside this, the campus has 2 private canteens at different locations around campus.



# 6.3 STUDENT CLUBS

## CODING

'Cypher': It creates a platform which allows students to gain assistance and mentorship to enhance their coding ability. The aim is to propagate enthusiasm for coding in the institute. The club believes that every student here should have an opportunity to groom their coding skills and develop a passion for prime coding. The club promotes participation in international coding competitions such as Google Summer of Code and ACM-ICPC.

'WirkHive': It is impossible to think of utilizing the entire resources of the World Wide Web or moving any establishments online. As a result, IIIT Pune has nurtured "WirkHive", a web-development club, which also gives an insight on Graphic Designing, Template Innovation, Advanced Photography and Content Creation, Copyrighting and SEO to the students.

## LITERATURE

'ECLECTIC' : the literary club of IIITP is the most dynamic clubs of the institute. Engineering industry, over time, has evolved to make it essential to be skilled in communication and not just technical knowledge. ECLECTIC creates intellectual and communicative engineers having ability to present a cause.

## WEB DEV

'Dramatics': The Dramatics Society ignites the spark of interest of the budding technocrats in the cult of Drama, and the focus isn't just the play on-stage, its about the message that we want the crowd to embrace. No form of Impression is more powerful than Drama.

Dance Club: "To touch, to move, to inspire is the true gift of Dance", said the mighty pen of Aubrey Lynch. . With ranges of Dance from Bollywood to Hip-Hop, from Kathak to Salsa, and from Contemporary to Waltz, we at the Dance Club help everyone climb-up the ladder.

## SPORTS

Sports play an integral role in the overall development of an individual and is the best source of recreation to a student. With these principles at its crux, the institute has developed excellent atmosphere for competitive sports such as Cricket, Football, Volleyball, Badminton, Table-Tennis, Carrom, Chess, Kabaddi, etc. Sports teams from our college have represented the institute in various reputed colleges including IIT-BHU, CoEP Pune, IIIT Kancheepuram, etc.

## DRAMA

## DANCE

## MUSIC

'SAAZ': It is the versatile music club of IIIT Pune. As they say, "that which can't be spoken written or communicated through facial expression is sung". Music is communication and such divine network of communication is one to be conserved and the music club here at IIIT Pune thrives at it.

Robotics Club: Robotics Society is one of the marquee student clubs of IIIT Pune. Being an Information Technology focused institution, it creates a platform for doing something out of the academic spectra, creating something mechanical and something that has a significant physical presence.

## ROBOTICS



## 6.4 STUDENT'S ACHIEVEMENTS

Two Gold and Two Bronze medals were earned in all India games and sports festival 'Spardha 2018' at IIIT BHU in Table Tennis, Chess, Carom and Athletics.

A team named “Calm Down It’s Just Genjutsu” from Indian Institute of Information Technology (IIIT) Pune has secured 1st place at Grand Finale of Smart India 11

Hackathon 2019 (Software Edition) held on 2nd and 3rd March 2019 at National Institute of Technology (NIT) Warangal. The team had 6 students; Disha Dudhal, Devasish Mahato, Yogesh Karan, Shivam Dev Singh, Aravind Unnikrishanan, and Dhanashree Regavade and two mentors. A price money worth **Rs. 1 Lakh** was awarded to the team.

# 7. Induction Schedule

The induction schedule will be soon displayed on the website of IIT, Pune. <http://www.iiitp.ac.in/>