

# PUDUCHERRY TECHNOLOGICAL UNIVERSITY

Pillaichavady, Puducherry - 605 014, INDIA.

## PROSPECTUS



## Ph.D Admissions 2023-24

Full Time & Part Time (Internal & External)

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## About UT of Puducherry

Heritage and Spirituality are the most precious gifts of Puducherry. The Union Territory of Puducherry was liberated from the then French rulers and became part of India in 1954. The French ambience and the serene atmosphere make the coastal town of Puducherry, unique. The great poets Subramaniya Bharathi, Bharathidasan, Sri Aurobindo are some of the legends associated with Puducherry. Sri Aurobindo Ashram, Auroville, Bharathi Park, Ousteri lake, Chunnambar boat house, Botanical Garden, Manakula Vinayagar Temple, and Arikamedu (archaeological site) are some of the major tourist attractions of Puducherry. The UT of Puducherry spans over three different states, viz. Tamil Nadu (Puducherry and Karaikal), Kerala (Mahe) and Andhra Pradesh (Yanam). Over the past two decades, the UT has become the education hub of the region with a good number of reputed institutions including Pondicherry University and JIPMER.

## About Puducherry Technological University

Pondicherry Engineering College (PEC) was established in the year **1984** under the VII Five Year Plan by an Act of Parliament, Govt. of India. Started with four undergraduate engineering programmes and was affiliated under Pondicherry Central University, the institution has grown by offering 9 undergraduate programmes and 14 postgraduate programmes including MBA. As a result of consistent performance and excellence, autonomous status is granted in the year **2014**. The Ph.D programmes in Engineering and Science disciplines are being offered for more than two decades under the affiliation of Pondicherry Central University.

The institution was upgraded to the status of Technological University with the approval of UGC with effect from **5th September, 2020** and was renamed as Puducherry Technological University (PTU). This marked an important milestone in the evolution of this institution. Therefore Admission to the Ph. D programmes are directly undertaken by PTU with effect from the academic year 2021-22.

As an institution of technical excellence, it has produced technically sound engineers for meeting the demands of the respective industries. The institution has been in the band of 1 -200 institutions in the NIRF ranking since 2016. Recognition of the institution as part of the TEQIP (phases 2 and 3), QIP Minor Research Centre, and National Doctoral Fellowship nodal centre all add more feathers to the cap of PTU.

With a view to make the MAKE IN INDIA a reality, the NITI AAYOG, Govt. of India has selected PTU as one of the ATAL incubation centres with a grant of 10 crores for creating and promoting entrepreneurship in the UT of Puducherry.

The University campus is situated at East Coast Road, Pillaichavady which is about 12 km from the Railway station and bus-stand in Puducherry town. It is about 160 km south of Chennai (Madras) on the shores of Bay of Bengal. The campus is also well connected by town buses from Puducherry. Buses ply between Chennai (Madras) and Puducherry frequently and the duration of journey is about 3 hours. The buses that come from Chennai via East Coast Road (ECR) stop near the campus . The city is well connected with rail and air transport also.

The temperatures during the year vary between 25°C to 35°C, making the place very pleasant and congenial for professional education. The campus is of great scenic beauty and forms an excellent setting for the pursuit of studies in engineering and technology.

The well planned departmental buildings, library, individual hostels for male and female students, students' amenities centre, open air theatre, residential quarters for staff with neatly laid out roads, lawns and gardens constitute the PTU campus which is about 210 acres.

### **VISION**

To evolve into a university of global eminence through transformative learning and research in frontier areas of engineering and technology towards developing holistic technology leaders, innovators and entrepreneurs.

### **MISSION**

- To create a conducive environment and learning opportunities to shape, nurture and promote the innate scholastic capabilities of students and scholars through a socially relevant and outward-facing curriculum.
- To establish Centres of Research (CoRs) in cutting edge technology and create an ecosystem for innovation and independent thinking in multidisciplinary areas of science, engineering and technology.
- To build synergistic partnerships with technology corporates and leading universities around shared agenda towards enabling a smooth transition for graduates from university to industry and academia.
- To promote entrepreneurial spirit, sustainable development outlook and build strong leadership capabilities.

## Departments & Facilities

### Department of Civil Engineering

The Department of Civil Engineering was established during the inception of the institution. Apart from offering B.Tech in Civil Engineering, two M.Tech programmes in Structural Engineering and Environmental Engineering specialization and PhD programme in Civil Engineering are offered. The major strength of this department is its faculty. Highly qualified, experienced and committed faculty members significantly contribute to the growth of the institution in general and this department in particular. Students are offered world class training both in theory and practice. Industrial training is part of the curriculum both for UG and PG Students.

Number of faculty	12
Number of Laboratories	9
Programmes offered	B.Tech. M.Tech. Structural Engineering M.Tech. Environmental Engineering

For more information about the faculty, facilities and funded projects, the department website <https://www.ptuniv.edu.in/ce> may be referred.

**Department of Mechanical Engineering**

The Department of Mechanical Engineering was established in the year 1985 with a UG programme B.Tech (Mechanical Engineering). Presently it offers two UG programmes, two PG programmes and Ph. D Programme. The B.Tech (Mechanical Engineering) programme is accredited by NBA for a period of 3 years. The Department has become the QIP centre in the year 2013. The syllabi of UG and PG programmes are constantly upgraded to meet with the changing and modern trends of Mechanical Engineering. The Department has highly qualified faculty members with expertise in the fields of Smart Manufacturing, Renewable Energy Technology, Hybrid Vehicle Technology, Modeling and Simulation Techniques, Nano Technology and other emerging/thrust areas of Mechanical Engineering.

Number of faculty	18
Number of Laboratories	8
Programmes offered	B.Tech. Mechanical Engineering B.Tech. Mechatronics Engineering M.Tech. Energy Technology M.Tech. Product Design & Manufacturing

For more information about the faculty, facilities and funded projects, the department website <https://www.ptuniv.edu.in/me> may be referred.

## Department of Electronics & Communication Engineering

The Department of Electronics and Communication Engineering was established in 1985. Throughout its sparkling history of three decades, the department of ECE has been known for its exceptionally strong Under-Graduate and Graduate training programmes. Ranked among the prominent in India, the department has always been on a progressive path, thanks to the experienced and dedicated faculty members who have a strong commitment towards providing quality engineering education. The Department became the QIP centre in the year 2013.

Number of faculty	17
Number of Laboratories	8
Programmes offered	B.Tech. M.Tech. Electronics & Communication Engg. M.Tech. Wireless Communications

For more information about the faculty, facilities and funded projects, the department website <https://www.ptuniv.edu.in/ece> may be referred.



## Department of Computer Science & Engineering

The Department of Computer Science & Engineering was established in 1985. The Department aims at providing high quality training to students through the latest in computer technology. In order to maintain the standard of education, the department constantly upgrades the academic syllabi so as to keep the students well trained to deal with changing trends in the field of Computer Science and Engineering. The Department places emphasis on Component Technology, Distributed Computing, Data Sciences, Information Security, High Speed Networks, Wireless and Mobile Networks, Agile Programming Methodologies, Language Technologies, Software Architecture, Software metrics, and several other recent topics. The Department became the QIP centre in the year 2013. The Department is offering Ph.D in Computer Science and Engineering and Ph.D in Computer Science in addition to B.Tech., and M.Tech., Programmes.

Number of faculty	24
Number of Laboratories	8
Programmes offered	B.Tech. Computer Science & Engineering M.Tech. Information Security M.Tech. Data Science Master of Computer Applications (MCA)

For more information about the faculty, facilities and funded projects, the department website <https://www.ptuniv.edu.in/cse> may be referred.

## Department of Electrical & Electronics Engineering

The Department of Electrical & Electronics Engineering was established in 1995. The Department of Electrical and Electronics Engineering provides a progressive environment for learning through systematic teaching methodologies, rigorous practical training and contemporary curriculum; research through creative activities in conventional and thrust areas of Electrical and Electronics Engineering. Actively engage and mentor students in scholarly and creative endeavors to develop the ability to navigate through a rapidly changing technology and society. Faculty dedicate themselves through excellence in teaching, exemplified by a free exchange of ideas, fostering new understandings through research and creativity. The Department became the QIP centre in the year 2013.

Number of faculty	16
Number of Laboratories	8
Programmes offered	B.Tech. M.Tech. Electrical Drives & Control

For more information about the faculty, facilities and funded projects, the department website <https://www.ptuniv.edu.in/eee> may be referred.

## Department of Information Technology

The Department of Information Technology was established in 2000. The Department of Information Technology has well experienced faculty, skilled technical staff and well equipped laboratories. It aims at providing high quality training to students through the latest in Information Technology. In order to maintain the standard of education, it constantly upgrades the academic syllabi so as to keep the students well to deal with changing trends in the field of Information Technology. It also emphasizes Information Security, Image Processing, Software Engineering, Optical and Mobile Networks, Soft Computing, Complex Event Processing, Data Mining, Web Technology and several other recent topics.

Number of faculty	10
Number of Laboratories	5
Programmes offered	B.Tech. M.Tech. Internet of Things

For more information about the faculty, facilities and funded projects, the department website <https://www.ptuniv.edu.in/it> may be referred.

## Department of Chemical Engineering

The Department of Chemical Engineering was established in the year 1998 with a vision to impart high quality chemical engineering education and to serve the needs of industries and societies through technical services, consultancy and research. This department is only the sixth chemical engineering department in the Government/Government aided sector in the region of Tamil Nadu and Puducherry. The department is offering M.Tech and B.Tech in Chemical Engineering. The department is also offering an M.Tech course in Environmental Engineering jointly with the Department of Civil Engineering from the academic year 2003-2004. The Department is steered to achieve the pinnacles of excellence by a team of highly qualified and dedicated faculty members, whose area of specialisation include petroleum and petrochemicals, process control and simulation, energy technology, process engineering and design.

Number of faculty	7
Number of Laboratories	5
Programmes offered	B.Tech. M.Tech

For more information about the faculty, facilities and funded projects, the department website <https://www.ptuniv.edu.in/che> may be referred.

## Department of Electronics & Instrumentation Engineering

The Department of Electronics and Instrumentation Engineering was started in 1998 and has been producing resourceful engineers. The department has been blessed with well-experienced and highly-motivated faculty members. In academic research, most faculty members of the department are involved in research work in emerging areas which is the major strength of the department. The department primarily focuses on areas like microprocessors, micro- controllers, Telecommunication, Robotics, Biomedical, digital signal processing, transducers and measurement, Computer Control in Process applications, virtual instrumentation etc. Practical knowledge being the most vital part of education, the department trains the students in the well-equipped laboratories like Electronics lab, transducers and measurements lab, process –control, automation lab, microcontrollers and microprocessors lab. All the labs are well equipped with state- of- the- art equipment and latest software packages like MATLAB, PLC, P-SPICE and LabVIEW for the accessibility of students.

Number of faculty	10
Number of Laboratories	5
Programmes offered	B.Tech. M.Tech. Instrumentation Engineering

For more information about the faculty, facilities and funded projects, the department website <https://www.ptuniv.edu.in/eie> may be referred.

## **Department of Mathematics**

The **Department of Mathematics** has been functioning right from the inception of Pondicherry Engineering College in the year 1985. The department has four well qualified and experienced faculty members handling teaching the UG and PG engineering graduates. Queueing Theory, Algebra and Numerical Analysis are the fields of specialization in which Ph.D programmes are offered.

For more information about the faculty, facilities and funded projects, the department website <https://www.ptuniv.edu.in/maths> may be referred.

## **Department of Physics**

The Department of Physics has been functioning right from the inception of the institution in 1985. The Department initially functioned as a supporting department catering to the demands of the under-graduate students. The Department started a post-graduate course in Material Science and Technology in 1992. The M.Phil. and Ph.D. research programs were begun in 1997. The Department has a well-equipped Physics Laboratory and P.G. Material Science & Technology Laboratory. The laboratories of the department are equipped with state of the art equipment some of which include the following: Flaw Detector, Ultrasonic Magnetic Particle Detector, Eddy Current Detector, Strain analysis Equipment with DAS computer Stand-alone System, Viscometer (milli Pascal to mega Pascal range), Vacuum coating units with Electron Beam Gun, Four-probe, Two-probe Conductivity Measurement Setup, Differential Thermal Analyzer, Thermo Luminescence Set-up, High power Electro Magnet with imported gauss meters to measure axial and transverse magnetic fields, Electronic Balance Micro and Milligram Accuracy, Ball Mill (planetary type), and LCR meter. The department has five highly qualified and experienced faculty members.

For more information about the faculty, facilities and funded projects, the department website <https://www.ptuniv.edu.in/physics> may be referred.

## **Department of Chemistry**

The **Department of Chemistry** has been functioning right from the inception of the institution in the year 1985. The department has three well qualified and experienced faculty members handling teaching the UG and UG engineering graduates. Organic Chemistry, Physical Chemistry and Environmental Chemistry are the fields of specialization in which Ph.D programmes are offered.

For more information about the faculty, facilities and funded projects, the department website <https://www.ptuniv.edu.in/chemistry> may be referred.

## **Department of Humanities & Social Sciences**

The **Department of Humanities & Social Sciences** has been functioning right from the inception of the institution in the year 1985. The department has four well qualified and experienced faculty members taking courses for both UG and PG.

For more information about the faculty, facilities and funded projects, the department website <https://www.ptuniv.edu.in/hss> may be referred.

## Application Procedure

The candidates seeking admission in the academic year 2023-24 to Full Time or Part Time (Internal or External) Ph.D Programmes in Engineering and Science disciplines of Puducherry Technological University, are required to apply through the online portal available at <https://www.ptuniv.edu.in> with effect from **21, June 2023**.

The candidates are instructed to first register with the portal with a your personal email address and mobile number. Authentication will be done by means of OTP verification.

Candidates eligible for more than one Engineering/Science discipline, need to submit separate applications for each.

Candidates are advised to keep the scanned copies of the following documents before proceeding to fill the application online.

1. Passport size photograph (in jpeg format with file size not exceeding 100 KB)
2. Specimen signature (in jpeg format with file size not exceeding 50 KB)
3. Proof of Birth date (Birth Certificate or SSLC or HSC mark sheets)
4. Residence Certificate (if applicable)
5. Community Certificate (if applicable and claim for reservation under OBC / MBC / EBC / SC / ST / BCM / BT)
6. Experience Certificate(s) (if applying for Part Time internal or external)
7. Certificates for Special Reservation (FF, ESM, PwD, SP)
8. Provisional Certificate (UG)
9. Provisional Certificate (PG)

The file format must be PDF for all the above documents (except for Sl. No. 1 and 2) with restriction of file size not exceeding 200 KB per document.

Upon completion of furnishing the personal, academic & professional details and uploading of the relevant certificates, the applicant will be prompted to remit a **non-refundable fee of ₹. 2,000 (₹.1,000 only for SC/ST, OBC, PwD and Women candidates)** through payment gateway towards the charges for the processing of application form and the conduct of the entrance examination.



On successful completion of the payment, the application will be considered complete and the applicant can download a soft copy of the same for his/her reference only. The hardcopy of the application need not be sent to the University by post or in-person.

The unique application number mentioned in the application form must be used for all future correspondences. The admission committee will intimate the individuals about the defects, if any in the application post the scrutinization process. Incomplete/Ineligible applications will be summarily rejected and the applicants will not be called for the Entrance Test and/or the Direct Interview. The application fee remitted by the candidates for such incomplete/ineligible applications will not be refunded.

## Entrance Examination

Admission of the candidate to the Ph.D. programme shall be done by a two stage process (i) an entrance test followed by (ii) an interview. Question paper for the entrance test shall have 100 multiple choice questions (MCQ) carrying a total of 150 marks. The test shall be for a duration of three hours. The syllabus for the entrance test shall consist 50% of subject/discipline specific questions (50 questions of two marks each carrying 100 marks) and remaining 50% of questions on 'Proficiency in English & Analytical Skills' (50 questions of one mark each carrying 50 marks). In every discipline there is only **one question paper**.. The eligibility criteria and the entrance **Examination question paper code** is given in [Table 1.0](#).

Discipline specific questions shall be of the standard of national level eligibility tests designed to test the analytical and quantitative ability of the candidate.

## RESERVATION

Out of the total sanctioned intake, **75%** of the seats are reserved for candidates from U.T. of Puducherry and **25%** of the seats are reserved for candidates from other states/UTs.

Except for the Open Competition / General Category (OC), the candidates claiming one of the following categories are required to submit the certificates obtained from the concerned authorities as mentioned below:

### Scheduled Caste Candidates (SC)

Candidates claiming admission under this category should belong to a caste which is recognized as Scheduled Caste under “**The Constitution (Pondicherry) Scheduled Castes Order 1964**” dated 05.03.1964, read with “The Constitution (Scheduled Caste) orders (Second Amendment) Act 2002 (**Central Act 61 of 2002**) and should enclose the required certificate issued by an Officer of the **Department of Revenue & Disaster Management., Puducherry**, not below the rank of Deputy Tahsildar.

### Scheduled Tribe Candidates (ST)

Candidates claiming admission under this category should belong to a caste which is recognized as Scheduled Tribe under “**The Constitution (Puducherry) Scheduled Tribes Order 2016**” dated 22.12.2016 and should enclose the required certificate issued by an Officer of the **Department of Revenue & Disaster Management, Puducherry**, not below the rank of Deputy Tahsildar.

### Other Backward Classes (OBC), Most Backward Classes (MBC), Extreme Backward Classes (EBC), Backward Classes Muslims (BCM) and Backward Tribes (BT) Candidates

Candidates claiming admission under these categories should enclose the recent(within one year from the last date of application) OBC/MBC/EBC/BCM/BT certificate issued by an Officer of the **Department of Revenue and Disaster Management**, not below the rank of Deputy Tahsildar.

### Freedom Fighter Category (FF) Candidates

Candidates claiming admission under this category should be: **Children / Grand Children of Freedom Fighters**, and they should enclose the necessary certificate issued by the **Officer-in-charge, Freedom Fighters Cell, U.T. of Puducherry**.

### **Wards of Ex-service Men (ESM) Candidates**

Those who are registered as Ex-servicemen in the **Department of Sainik Welfare (DSW), Govt. of Puducherry**, and have got **Ex-servicemen/Widow of Ex-servicemen** identity card from DSW, should enclose the necessary certificate issued by the Director, DSW, Puducherry.

### **Persons with Disabilities (PwD)**

The candidates seeking admission under this category should produce a full size photograph exhibiting the deformity. The Physically Challenged candidates with '**locomotor disorder of lower limbs between 40% and 70%**', are only eligible under the PwD quota.

### **Meritorious Sports Person Category (MSP)**

Candidates claiming admission under sports category should have excellent caliber in sports and games, with consistency in sports activities. The purpose of this quota is to recognize and give weightage to the sports merit of the candidates and hence marks for sports achievements alone, with good performance in sports events will be considered for selection.

The highest achievement of the candidates in only one annual tournament under the listed sports disciplines in a year will be considered for awarding marks. Selection of candidates will be based on the marks obtained by the candidates following the guidelines given in the Government of Puducherry. **G.O. Ms.53 dated 24th May 2012** and **G.O. Ms. No 6 dated 14th March, 2018** of Chief Secretariat (Higher & Technical Education), Puducherry.

- Priority and Type of Achievement
- International Achievement
- Recognized National Achievement
- Recognized South Zone Achievement
- Recognized State level Achievement
- Recognized State Championships
- District/Regional/Zonal Level Achievements

The list of Sports Discipline eligible for seats under sports quota is given below:

1) Archery 2) Athletics 3) AtyaPatya 4) Badminton 5) Ball Badminton 6) Basketball 7) Billiards and Snookers 8) Boxing 9) Gymnastics 10) Handball 11) Hockey 12) Judo 13) Kabaddi 14) Karate do 15) Kayaking and canoeing 16) KhoKho 17) Polo 18) Power lifting 19) Rifle shooting 20) Roller Skating 21) Bridge 22) Carrom 23) Chess 24) Cricket 25) Cycling 26) Equestrian Sports  
27) Foot ball 28) Golf 29) Rowing 30) Softball 31) Squash 32) Swimming 33) Table Tennis 34) TaekWondo 35) Tennikoit 36) Tennis 37) Volley ball 38) Weight lifting 39) Wrestling and 40) Yachting.

**General Conditions for Sports Quota:**

For Consideration of candidates seeking admission under the category of Sports Person, he/she should enclose attested photo copies of participation certificates and the certificate in the prescribed forms issued by the relevant sports authorities along with the application.

Participation/Achievements in sports/games shown in the above list, immediately preceding five years to the year for which admission is sought for, will alone be taken into account. National/State Level Championships/Tournaments conducted by Organizations/Federations recognized by Indian Olympic Association/Ministry of Youth Affairs and Sports, New Delhi, alone will be considered for award of marks (Recognition by the Indian Olympic Association /Ministry of Youth and Sports, New Delhi, should be relevant to the years concerned).

The relevant attested copies of the certificates issued by the appropriate authorities as detailed in the G.O Ms.53 dt.24.05.2012, are to be submitted along with the application.

Open /Invitational Tournaments of any kind will not be considered.

For Tennis Achievements, Top 3 players by his/her position in the ranking list published by ATTA based on the ranking rules and the final rankings of previous 4 years will be awarded marks for achievements and participation (Necessary forms from Associations are to be enclosed)

For Cricket, the Annual Official Championship / Tournaments conducted within the country under the auspices of BCCI at District / State National Level alone, will be taken into consideration for that year.

**Only Union territory of Puducherry candidates are eligible to apply for admission under Sports Quota.**

All the achievement certificates are to be supported necessarily by the relevant participation Certificates and appropriate Form / Certificates.

No further enclosures of certificates will be entertained after the last date for submission of completed application.

A Candidate can utilize the sports quota only once for these admissions.

A Committee will be constituted to scrutinize the applications received under this category and will rank the candidates based on the marks assigned to the certificates enclosed along with the application and the sports merit list will be published in the [www.ptuniv.edu.in](http://www.ptuniv.edu.in) website.

Following are the details of Vertical and Horizontal Reservation admissible for the candidates belonging to the **U.T. of Puducherry** against the 75% of the sanctioned intake for the academic year 2023-24.

<b>A</b>	<b>Vertical Reservation*</b>	<b>Reservation Percentage</b>
1	Open Competition / General Category (OC)	50
2	Other Backward Classes (OBC)	11
3	Backward Classes Muslims (BCM)	2
4	Most Backward Classes (MBC)	18
5	Extreme Backward Classes (EBC)	2
6	Backward Tribes (BT)	0.5
7	Scheduled Tribes (ST)	0.5
8	Scheduled Caste (SC)	16
<b>B</b>	<b>Horizontal Reservation**</b>	
1	Children / Grand Children of Freedom Fighter (FF)	4
2	Person with Disabilities (PwD)	5
3	Wards of Ex-servicemen (ESM)	3
4	Candidate who are Meritorious in Sports (MSP)	1

	Open Quota (OC)	<b>50.5%</b>
Other state (25%)	OBC	27%
	SC	15%
	ST	7.5%

# Table 1.0 Programme-wise Intake and Eligibility Criteria

Question Paper Code	Department/Discipline	Intake*	Eligibility Criteria
CE	Civil Engineering	PTU Campus –11	<p>B.E./B.Tech., Degree in Civil Engineering/ Structural Engineering and M.E., / M.Tech., Degree in Civil Engineering / Structural Engineering / Geotechnical Engineering/ Hydraulic &amp; Water Resources Engineering / Ocean Engineering / Environmental Engineering / Environmental Technology / Advanced Construction Technology / Geo informatics with an overall minimum aggregate of 55% of marks or equivalent in the qualifying examination M.E., / M.Tech.,</p> <p><b>Or</b></p> <p>B.E., / B.Tech., Degree in Chemical Engineering / Environmental Engineering and M.E., / M.Tech., Degree in Environmental Engineering / Environmental Management / Energy Technology /any related specialisations with an overall minimum aggregate of 55% of marks or equivalent in the qualifying examination M.E.,/M.Tech.,</p>
ECE	Electronics & Communication Engineering	PTU Campus - 30 PKIET - 15	<p>B.E./B.Tech. Degree in Electronics and Communication Engineering and M.E/ M.Tech. degree in Electronics/ Communication Systems/ Electronics and Communication Engineering/ Wireless Communication /VLSI Design/ Embedded Systems/ Biomedical Engineering / Medical Electronics/ Network and Information security / any related specializations with an overall minimum aggregate of 55% of marks or equivalent in the qualifying examination M.E./ M.Tech.</p>
EEE	Electrical & Electronics Engineering	PTU Campus - 37	<p>B.E./B.Tech. Degree in Electrical and Electronics Engineering/Electronics and Instrumentation and M.E/ M.Tech.</p> <p>Degree in Electrical and Electronics Engineering/ other related specializations with an overall minimum aggregate of 55% of marks or equivalent in the qualifying examination M.E./ M.Tech.</p>

CSE	Computer Science & Engineering	PTU campus – 46 PKIET - 16	B.E./B.Tech. degree in CSE/IT/ECE and M.E. / M.Tech in Computer Science and Engineering / Information Technology/any related specializations with an overall minimum aggregate of 55% of marks or equivalent in the qualifying examination M.E./ M.Tech.
CS	Computer Science	PTU Campus – 11	MCA/ M.S./ M.Sc. in Computer Science/ Information Technology or equivalent with B.Sc Computer Science / B.C.A or its equivalent with an overall minimum aggregate of 55% of marks or equivalent in the qualifying examination MCA/ M.S./ M.Sc.
ME	Mechanical Engineering	PTU Campus - 45	B.E./B.Tech. Degree in Mechanical Engineering and M.E./M.Tech. degree in Energy Technology / Product Design and Manufacturing / Production Engineering / Manufacturing Engineering/ CAD - CAM/ Thermal Engineering / Industrial Engineering/Nano Technology/Material Technology/Automobile Engineering/Aeronautical Engineering/Agriculture Engineering /any related specializations with an overall minimum aggregate of 55% of marks or equivalent in the qualifying examination M.E./ M.Tech.
IT	Information Technology	PTU Campus - 21 PKIET - 20	B.E./B.Tech. Degree in IT/CSE/ECE/EEE/E&I and M.E./M.Tech. Degree in IT/CSE or any related specializations with an overall minimum aggregate of 55% of marks or equivalent in the qualifying examination M.E./ M.Tech.
CHE	Chemical Engineering	PTU Campus -48	B.E/B.Tech in Chemical Engineering/Technology followed by M.E./M.Tech./M.S (by research) in Chemical/ Biochemical/Biotechnology/ Petroleum / Petrochemical / Electrochemical/ Pharmaceutical / Food Technology / Ceramics & Cement Technology / Polymer / Nano Technology / Industrial Safety Engg. / Environmental Engg. / Energy and Environmental Engg. / Process Control / Industrial Biotechnology or any other allied disciplines of Chemical Engg./Technology or equivalent from a recognized university with an overall minimum aggregate of 55% of marks or equivalent in the qualifying examination M.E./ M.Tech.
EIE	Electronics & Instrumentation Engineering	PTU Campus - 60	B.E./B.Tech. Degree in Electronics and Instrumentation /Instrumentation & control engineering/ control & instrumentation engineering/Biomedical engineering /electrical & electronics engineering and M.E/ M.Tech. degree in Instrumentation/ Instrumentation & Control/ control and instrumentation / process control and instrumentation / Drives & control/ Applied Electronics / Biomedical Engineering / Electronics Engineering/ any related specializations with an overall minimum aggregate of 55% of marks or equivalent in the qualifying examination M.E./ M.Tech.
PHY	Physics	PTU Campus – 2 PKIET - 8	Master's degree in Physics/ Material Science and Technology with an overall minimum aggregate of 55% of marks or equivalent in the qualifying Master's degree examination.
CHY	Chemistry	PKIET - 5	Masters Degree in Chemistry/chemical Sciences and any other related area in chemistry with an overall minimum aggregate of 55% of marks or equivalent in the qualifying Master's degree examination.



HSS	HSS	PTU Campus - 2	Master's Degree in English Language and / Literature with an overall minimum aggregate of 55% of marks or equivalent in the qualifying Master's degree examination.
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\*Subject to increase

A minimum of 55% marks or CGPA 6.0 on a 10 point scale in the qualifying examination of the Master's Degree Programme. In the case of SC/ST/PwD candidates, a minimum of 50% marks or CGPA of 5.5 on a 10 point scale in the qualifying examination of the Master's degree Programme. **Note:** Candidates who have passed Master's Degree **through the Open University system** are not eligible.

## Selection Process

Admission of the candidate to the Ph.D. programme shall be done by a two stage process  
(i) an entrance test followed by (ii) an interview

Question paper for the entrance test shall have 100 multiple choice questions (MCQ) carrying a total of 150 marks. The test shall be for a duration of three hours. The syllabus for the entrance test shall consist 50% of subject/discipline specific questions (50 questions of each carrying two marks for a total of 100 marks) and remaining 50% of questions on 'Proficiency in English & Analytical Skills' (50 questions of each carrying One mark for a total of 50 marks). The eligibility criteria and the entrance Examination question paper code is given in [Table 1.0](#). Discipline specific questions shall be of the standard of national level eligibility tests. Qualifying marks to be scored by the candidate in the entrance test is 50% of the maximum marks scored in the respective discipline. A relaxation of 5% shall be allowed for candidates belonging to SC/ST/OBC/EBC/Differently Abled category. Candidates who qualify in the entrance test will be shortlisted to appear for the interview.

Candidates who are selected under the National level Fellowship programme of recognized

Government Bodies (GATE/UGC-NET/UGC-CSIR-NET (JRF/SLET) are exempted from entrance examination and are admitted in Full Time Ph.D. Programme. These candidate need to apply against this notification and attend the interview.

Candidates shall come prepared to make a presentation on a research area of specific interest for the interview. Presentation shall be on any topic of candidate's choice in the research area. Candidates shall restrict his presentation to a maximum time limit of 20 minutes, during which he/she should briefly cover the state of the art and possible research opening that remains to be explored in the research topic/area chosen for presentation.

In the interview that will follow the presentation, assessment will be done based on

PTU – Ph.D Admissions 2023-24 Prospectus

- (a) Competence of the candidate to conduct research in any chosen area
- (b) Depth of understanding of concepts in the associated research area
- (c) Inquisitiveness and open mindedness to explore a new Research Area/Domain.

Selection is done based on 20% of marks scored in qualifying postgraduate degree examination over and above the minimum prescribed marks + 30% of entrance test marks +50% marks from interview process.

If selected the candidates should be ready to do **course work** at PTU Campus. The candidates can also choose the supervisors from **Perunthailvar Kamarajar Institute of Engineering and Technology (PKIET)**, a constitution College PTU located at Karaikal. However the students need to do the coursework and research work at PTU. The number of available vacancy position in PKIET and PTU campus are given in [Table 1.0](#)

## Fee Details

### FEES STRUCTURE FOR Ph.D PROGRAMME FOR THE ACADEMIC YEAR 2023-24

1.	Admission fee	1000
2.	Tuition fee per annum*	25000
3.	Special fee per annum*	4000
4.	Library fee per annum*	2000
5.	Library Deposit (Refundable)	1000
6.	Caution Deposit (Refundable)	10000
7.	Computer charges per annum*	2000
8.	Students council fee	500
9.	Cultural fee per annum*	1000
10.	Laboratory fee per annum*	1500
11.	Internet fee per annum*	1000
12.	Student welfare fund per annum*	300
13.	Alumni life member fee	500
14.	University Development Fund	5000
15.	Sports fee per annum*	500
16.	Identity card fee	100
17.	Insurance fee	250
18.	Recognition fee	500
19.	Registration form	10
	<b>Total</b>	<b>₹ 56,160</b>

\* To be paid annually

## IMPORTANT DATES

Opening of Online Applications	03.07.2023
Closing of Online Applications	21.07.2023
Entrance Examination** CE, EEE, ECE, CSE, CS, CHY ME, EIE, IT, CHE, PHY, HSS	<b>SUNDAY 30.7.2023</b> 9.30 A.M. to 12.30 noon 2.00 P.M. to 5.00 P.M
Declaration of Entrance Examination Results	01.08.2023
Direct Interview for shortlisted candidates <sup>+</sup>	07.08.2023 to 09.8.2023
Intimation of Selection	14.08.2023
Provisional Registration and Orientation Programme	21.08.2023 and 22.08.2023

\*\* Hall Tickets will be sent through the registered email of the applicants.

<sup>+</sup> Intimation will be sent by the Director (Academic Research) through registered email of the candidates. Call letters will not be sent by postal.

### EXAMINATION CENTRE

The entrance examination will only be conducted in **Puducherry Technological University Campus** following all the necessary SOPs for prevention of COVID-19 spread.

## CONTACT DETAILS

Sl. No.	Designated Officer	Email address
1.	The Vice-Chancellor	<a href="mailto:vc@ptuniv.edu.in">vc@ptuniv.edu.in</a>
2.	The Registrar	<a href="mailto:registrar@ptuniv.edu.in">registrar@ptuniv.edu.in</a>
3.	Director (Academic Research)	<a href="mailto:director.research@ptuniv.edu.in">director.research@ptuniv.edu.in</a>
4.	Assistant Registrar (Academic)	<a href="mailto:ar_academics@ptuniv.edu.in">ar_academics@ptuniv.edu.in</a>
5.	Convenor, Ph.D Entrance Examination	<a href="mailto:convenor_phdEE@ptuniv.edu.in">convenor_phdEE@ptuniv.edu.in</a>
6.	Prof. & Head, Civil Engineering	<a href="mailto:hod.civil@ptuniv.edu.in">hod.civil@ptuniv.edu.in</a>
7.	Prof. & Head, Chemical Engineering	<a href="mailto:hod.che@ptuniv.edu.in">hod.che@ptuniv.edu.in</a>
8.	Prof. & Head, Computer Science & Engg.	<a href="mailto:hod.cse@ptuniv.edu.in">hod.cse@ptuniv.edu.in</a>
9.	Prof. & Head, Electrical & Electronics Engg.	<a href="mailto:hod.eee@ptuniv.edu.in">hod.eee@ptuniv.edu.in</a>
10.	Prof. & Head, Electronics & Communication Engg.	<a href="mailto:hod.ece@ptuniv.edu.in">hod.ece@ptuniv.edu.in</a>
11.	Prof. & Head, Electronics & Instrumentation Engg.	<a href="mailto:hod.eie@ptuniv.edu.in">hod.eie@ptuniv.edu.in</a>
12.	Prof. & Head, Information Technology	<a href="mailto:hod.it@ptuniv.edu.in">hod.it@ptuniv.edu.in</a>
13.	Prof. & Head, Mechanical Engineering	<a href="mailto:hod.mech@ptuniv.edu.in">hod.mech@ptuniv.edu.in</a>
14.	Prof. & Head, Mathematics	<a href="mailto:hod.maths@ptuniv.edu.in">hod.maths@ptuniv.edu.in</a>
15.	Prof. & Head, Physics	<a href="mailto:hod.physics@ptuniv.edu.in">hod.physics@ptuniv.edu.in</a>
16.	Prof. & Head, HSS	<a href="mailto:hod.hss@ptuniv.edu.in">hod.hss@ptuniv.edu.in</a>
17.	The Principal, PKIET	<a href="mailto:principal@pkiet.edu.in">principal@pkiet.edu.in</a>