



DECCAN EDUCATION SOCIETY - Since 1884

DES PUNE UNIVERSITY

PhD Admissions Notification

As per University Grants Commission (Minimum Standards and Procedures for Award of Ph.D. Degree)

Regulations, 2022, [No. F. No. 1-3/2021(QIP)]

July 2025

DES Pune University, Pune is inviting applications for admissions to PhD Programs. We are following all the Minimum Standards and Procedures as per UGC Regulations 2022. Please apply through the University website <https://admissions.despu.edu.in/> on or before 5th August 2025

1. PhD Programs

- 1.1. Computer Science and Engineering
- 1.2. Electronics and Communication Engineering
- 1.3. Economics
- 1.4. Psychology
- 1.5. Computer Science
- 1.6. Mathematics
- 1.7. Life Sciences
- 1.8. Management
- 1.9. Humanities and Social Sciences
- 1.10. Indian Knowledge Systems
- 1.11. Media and Communication

2. Eligibility Criteria

The following are eligible to seek admission to the Ph.D. Programme

- 1.1. Candidates who have completed a 1-year/2-semester master's degree programme after 4-year/8-semester bachelor's degree programme or a 2-year/4-semester master's degree programme after a 3-year bachelor's degree programme or qualifications declared equivalent to the master's degree by the corresponding statutory regulatory body, with at least 55% marks in aggregate or its equivalent grade in a point scale wherever grading system is followed or equivalent qualification from a foreign educational institution accredited by an assessment and

accreditation agency which is approved, recognized or authorized by an authority, established or incorporated under a law in its home country or any other statutory authority in that country to assess, accredit or assure quality and standards of the educational institution. A relaxation of 5% marks or its equivalent grade may be allowed for those belonging to SC/ST/DT-A/NT-B/NT-C/NT-D, *SEBC & OBC (Non creamy layer)/Differently abled category, Economically Weaker section (EWS) and other category of candidates as per the decision of the UGC from time to time. Provided that a candidate seeking admission after a 4-year/8-semester bachelor's degree programme should have a minimum of 75% marks in aggregate or its equivalent grade on a point scale wherever the grading system is followed.

1.2. Candidates who have completed the M.Phil. programme with at least 55% marks in aggregate or its equivalent grade in a point scale wherever grading system is followed or equivalent qualification from a foreign educational institution accredited by an assessment and accreditation agency which is approved, recognized or authorized by an authority, established or incorporated under a law in its home country or any other statutory authority in that country to assess, accredit or assure quality and standards of educational institutions, shall be eligible for admission to the Ph.D. programme. A relaxation of 5% marks or its equivalent grade may be allowed for those belonging to SC/ST/DT-A/NT-B/NT-C/NT-D, *SEBC & OBC (Non creamy layer)/Differently abled category, Economically Weaker section (EWS) and other category of candidates as per the decision of the UGC from time to time.

****SEBC Reservation is subject to the final outcome at Writ Petition No. 3468/2025 filed in Hon'ble Mumbai High Court.*** Reservation is applicable only to Maharashtra domicile candidates provided they submit the necessary documents for reservation before interview. Outside Maharashtra candidates will be considered in the OPEN category.

3. Procedure for Admission

- 3.1.** The admission shall be based on the criteria notified by the institution, keeping in view the guidelines/norms in this regard issued by the UGC and other statutory/regulatory bodies concerned, and taking into account the reservation policy of the Central/State Government from time to time.
- 3.2.** Candidates satisfying the eligibility criteria mentioned above shall be notified over email to appear for the Ph.D. entrance test / interview conducted at DES Pune University, Pune.
- 3.3.** PhD entrance test shall be qualifying with qualifying marks as 50% provided that relaxation from 50% to 45% shall be allowed for the candidates belonging to SC/ST/DT-A/NT-B/NT-C/NT-D, *SEBC & OBC (Non creamy layer)/Differently abled category, Economically Weaker section (EWS) and other category of candidates as per the decision of the UGC from time to time.

****SEBC Reservation is subject to the final outcome at Writ Petition No. 3468/2025 filed in Hon'ble Mumbai High Court***
- 3.4.** The Entrance Test syllabus shall consist of 50% of research methodology, and 50% shall be subject specific.
- 3.5.** Students who have secured 50 % marks in the entrance test are eligible to be called for the interview.
- 3.6.** The interview/viva-voce will be conducted by the university for the candidates who qualify the test. For selection of candidates, a weightage of 70% to the entrance test and 30% to the performance in the interview/Viva-voce shall be given.
- 3.7.** For GATE/NET/JRF/SET/GPAT/CEED qualified students, the selection will be based on Interview.

- 3.8.** The recommended candidates will be intimated through email about their selection and the candidates will be offered Ph.D. provisional admission.
- 3.9.** The eligibility of a candidate is provisional as per information provided by the candidate in his/her application form and is subject to verification of minimum eligibility conditions for admission to the program, educational documents and reservation documents (if any).
- 3.10.** University keeps rights to cancel admission of the Ph.D. scholars in the case of misconduct by the scholar, unsatisfactory progress/absent for consecutive two progress seminars, failure in any examination related to Ph.D., fabrication found in educational and reservation documents, candidate is found ineligible, involved in plagiarism in paper publications and thesis.
- 3.11.** Provisional eligibility to appear in the selection process is no guarantee for admission to the program. PhD admission will be confirmed after successful completion of the course work as per UGC norms.

4. Admission Process

- Applicants can register using <https://admissions.despu.edu.in>
- Applicants may refer to [this document](#) to follow the steps involved in the application form.
- Applications will only be considered if they are 100% completed and submitted.

5. Research Areas

PhD Subject Specialization	Research Areas (Not Limited to)
Computer Science and Engineering	● Artificial Intelligence and Machine Learning ● Wireless Networks, Network Security, Cybersecurity, Data Science
Electronics and Communication Engineering	● VLSI Design/Embedded Systems ● Signal and Image Processing ● Communication Systems ● Internet of Things (IoT)
Economics	● Development Economics ● Microeconomics
Psychology	● Health Psychology ● Yoga and Indian Psychology ● I/O Psychology ● Arts and Health
Computer Science	● Data Science ● Soft Computing ● Machine Learning ● Deep Learning
Mathematics	● Matrix algebra ● Modern algebra ● Statistics and Probability ● Complex analysis ● Discrete Mathematics
Life Sciences	● Urban Biodiversity and Green Corridors ● Ecological Niche Modelling - Threatened and Endemic Fauna ● Biodiversity In Agricultural Landscape ● Ecology and Behavior of Birds ● Biodiversity and Ecosystem Services ● Human Animal Co-Existence ● Biochemistry
Management	● Marketing Management ● HR Management ● Finance Management
Media and Communication	● Media and Communication
Humanities and Social Sciences	● IKS ● Veda, Vedanta ● Philosophy

6. Details of the PhD Entrance Test (PET) and Interview

Candidates are requested to check the emails from CodeTantra Platform for the PhD Entrance Test. Candidates will receive the details of the platform, Exam login credentials, process to be followed during the exam. Candidates should appear for the demo test as per the schedule mentioned in the mail. If there are any issues, please contact the CodeTantra support.

PET is Online Proctored MCQ based Exam. Kindly arrange two camera devices for appearing PET. (Details of the arrangements will be mailed by 7th August 2025. Exam will be conducted based on two sections as mentioned below.

PhD Entrance Test (PET)	
Date of Entrance Test	August 10 th , 2025
Section 1 – Research Methodology (Max 1 Hour)	10.00 AM – 11.00 AM
Section 2 – Subject Specific (Max 1 Hour)	11.00 AM – 12.00 PM
Results (To be Declared on Website)	August 11 th , 2025
Interviews for candidates who pass the PET	August 12 th , 13 th , 2025
	Schedule will be informed through mail

7. Syllabus for the PhD Entrance Test and Interview

7.1. Research Methodology (Common section for all Applicants)

Data Analysis, Intellectual Property, Creativity in Research, Overview of Research, Literature Survey and Technical Writing and Presentation, Design of Experiments, Modelling Skills, Theoretical Research

7.2. Computer Science and Engineering

Computer Networks, Theory of Computation, Artificial Intelligence, Machine Learning, Design and Analysis of Algorithms, Data Structures, Discrete Mathematics, Software Engineering, Probability

7.3. Electronics and Communication Engineering

Signal and Image Processing: Signal transformations, Digital filter design, Image enhancement and segmentation, Feature extraction, classification, and compression in images. **Electronics Circuits:** Diodes, BJTs, and MOSFETs, Operational amplifiers, Analog circuit design. **Digital Systems:** Boolean algebra and combinational circuit design, Sequential circuits, Number systems, Logic families (TTL, CMOS). **IOT:** IOT architecture and communication protocols (MQTT, CoAP, Zigbee), Sensors and actuator interfacing, Cloud platforms and IOT data analytics, IOT security basics. **Microcontroller & Embedded System:** Basics of Embedded Systems, Microprocessor and Microcontroller Architecture, Real-time operating systems (RTOS), Memory management. **Communication Systems:** Analog and digital modulation, Noise analysis and SNR, signal space concepts, Channel coding (block, convolutional) and error detection, Modern wireless systems: OFDM, MIMO, LTE basics. **VLSI:** VLSI design flow, VLSI Testing and Verification, Low-power design

7.4. Computer Science

Data Structures and algorithms, Operating system, Database systems, Computer Organization and architecture, Software Engineering, Computer Networks, Programming basics, Artificial Intelligence and Machine Learning.

7.5. Economics

Basics of Economics, Development Economics and Microeconomics

7.6. Psychology

Basics of Psychology, Personality, Motivation and Emotion, Clinical Psychology, Industrial/ Organizational Psychology, Applied Psychology, Cognitive Psychology, Indian Psychology

7.7. Mathematics

Matrix algebra: Rank of a matrix, system of linear equations, eigen values and eigen vectors, inner product spaces, **Modern algebra:** Groups, sub groups, homomorphism, normal subgroup, quotient groups, Sylow theorems. **Real analysis:** Limit, continuity, connectedness, mean value theorems, L'Hospital's rule. **Complex analysis:** Analytic function, conformal mapping, bilinear transformation, complex integration. **Vector analysis:** Divergence and curl of a vector, vector integration. **Numerical methods:** Bisection method, fixed point method, Numerical differentiation and integration. **Statistics and Probability:** Probability, conditional Probability, Baye's theorem, discrete and continuous probability distributions. **Discrete Mathematics:** Posets, lattices, modular and distributive lattices, elements of graph theory, Eulerian and Hamiltonian graphs, directed graphs, trees.

7.8. Life Sciences

Environmental Sciences, Animal Sciences, Plant Sciences, Microbiology, Genetics, Biochemistry, Cell Biology, Molecular Biology, Analytical Techniques.

7.9. Management

Marketing mix (4Ps and 7Ps), Consumer decision-making process. Factors influencing consumer behavior. Market segmentation, targeting, and positioning. Customer loyalty and retention. E-commerce and Omnichannel Marketing, Relationship marketing in B2B. Digital media marketing. Theories of motivation and personality. Brand architecture and portfolio management.

7.10. Media and Communication

History of Communication, Elements of Communication; Types of Communication, Principle and Barriers to Communication; Concept of Journalism and mass communication, mass communication in India, history, growth and development of print and electronic media; Models and theories of mass communication, media and culture, new media; Indian cinema, Film genres, Indian aesthetics and poetics, Bharat Natyashastra, World Cinema, New Wave cinema, Indian New Wave cinema, Media appreciation, Concept of media law and ethics in India and rest of the world.

7.11. Humanities and Social Sciences / Indian Knowledge Systems

Fundamental Understanding of IKS; Oral Tradition of India; Caturdaśa Vidyāsthānam; Indian Performative and Intellectual Traditions; Various Research Activities in IKS. **Sanskrit:** Fundamental Understanding of Upāya Śāstra (Vyākaraṇa, Nyāya and Mīmāṃsā) and Sanskrit Literature. **Vedic Literature:** Ṛgbhāṣyabhūmikā of Sāyaṇa, Fundamentals of Six Vedāṅgas, Western approaches to the Vedas. **Vedanta Philosophy:** Fundamentals of Indian Philosophy, Fundamental Understanding of Upāya Śāstra (Vyākaraṇa, Nyāya and Mīmāṃsā) and Sanskrit Literature

8. Fee Structure

Fee type	Indian nationals (INR)	International Students (INR)
Entrance exam application (One Time)	1080	2250
Course Work (One Time)	15000	22500
Tuition fee (Per Year)	60000	90000
Final Defense Fee (One Time)	8000	12000

9. Duration

PhD (After PG)	Maximum five years from the date of registration
Direct PhD (Directly After UG)	Maximum six years from the date of registration

10. Admission Timeline / Process

Online Applications (Apply here - https://admissions.despu.edu.in)	July 25 th , 2025 - August 5 th , 2025
Notification to shortlisted candidates for PhD Entrance Test	August 7 th , 2025
PhD Entrance Test (Online Proctored)	August 10 th , 2025
Notification to shortlisted candidates for Online Interviews	August 11 th , 2025
Online Interviews (From 4.00 PM to 6.00 PM)	August 12 th , 2025 August 13 th , 2025
Notification to candidates for provisional admission	August 18 th , 2025
Admission and fee payment Verification of documentation and Eligibility and confirmation of admission	August 18 th , 2025 - August 25 th , 2025

Dean (R & D)
DES Pune University, Pune