



Defence Institute of Advanced Technology

(Deemed to be University under section 3 of UGC Act 1956),

Girinagar, Pune-411025

Ph.D. Programmes- January-2026 Batch

Category - MoD Sponsored /Self Sponsored (DRDO, Tri-Services), Industry Sponsored /Industry Self Sponsored, Other R&D Govt. Organizations.

Applications are invited for admission to Ph.D. Programmes for the Session Jan-2026 as per description below.

Details of Department / School-wise vacancies for admission to Ph.D. Programme Jan-2026.

| Sr. No. | Department / School | Subject/Research Area | Vacancies |
|---------|--|---|-----------|
| 1 | Metallurgical and Materials Engg. | Polymer Composite, Biotechnology / Microbiology / Biochemistry/ Nanocomposites/ Flexible Electrodes/ Textile Materials/ Biomaterials/ Bio nano technology / Bio nano polymer, High Entropy Alloys, High Temperature Materials, Coating/ Corrosion, Supercapacitor and battery type electrode materials, Piezoelectric materials, Armor materials, Coating materials, Composite materials, High Temperature coating and Ceramics, Additive manufacturing, Texture Thermomechanical Processing of Metallic Materials Electrical Steel, Additive Frictions stir Processing/Welding, Corrosion Behaviour in Metallic Materials, Polymer Nanocomposites for energy storage and water treatment, polyurethane foam for acoustic absorption and oil-water separation and carbon foams for energy storage, Polymer blend structure property relationship, | 06 |
| 2 | Computer Science & Engineering. | Block Chain Technology, Cryptography, Secure Software Engineering, Post Quantum Cryptography, Artificial Intelligence/ML/LLM/AR/VR, QML, ML for IoT, Cyber Security for AI, Cyber Security, AIML, DL Applications, Computer Vision, AI for Cyber Security, Deep Neural Networks, Generative AI, XAI, Responsible AI, AI for Cyber Security, Cyber Security, Formal Verification, NLP, Malware Analysis, NLP, Secure Programming, Computer N/W, HPC, Multicore Architecture, Hardware Security, Cloud Computing and IoT. | 13 |
| 3 | Applied Mathematics | Applied Mathematics, Convection in Porous Media, Computational Numerical Method's for Differential Equations (AI / ML, Finite Element Method (s)), Mathematical Modelling, Cryptography, Applied Maths, Fluid Mechanic with AI & ML, AI/ML/Computer Science, Electronics and Communication Engineering, CSE Robotics, Signal Processing, Machine Learning, Deep Learning, ML, DL, Fuzzy areas, Probability & Statistics. | 07 |
| 4 | Applied Chemistry, Energy and Environment. | Synthesis and Applications of Ionic Liquids, Membrane Process Green Solvents, Combustion of Hydrogen, Photocatalytic Hydrogen Generation, Biomass to Fuel, Fuel Cell Membranes, Adsorption of Solutes, Wastewater Treatment, Co2 sequestration, Heat transfer enhancement, Heat Exchangers, Refrigeration and Air conditioning, Solar thermal application, Photovoltaics, Desalination, IC Engine, CFD, Bio-fuels, Water to Energy, Hydrogen Fuel Cell, Energy Management, Phase Change Materials, CFD and Heat Transfer, Hydrogen Storage, Electric Vehicles, Artificial Intelligence and Optimization, Solar Energy, Gas recovery from hydrates, Environmental Impact, Sustainability and Climate Science. | 03 |
| 5 | Applied Physics | Photonics, Optics, Lasers, Terahertz. | 01 |

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| 6 | Electronics Engg. | Antennas, Computational Electromagnetics, Energy Harvesting, Metamaterials, Radar, Radar Signal Processing, RF Photonics, RF/Microwave/Millimetre wave Passive and Active circuits, RFID, Microwave Imaging and Non-destructive Testing., EMI/EMC, Shielding material, Stealth Technology, UAV, Signal Processing, Robotics, UAV Surveillance, Underwater Acoustic, Intelligence, Embedded System, VLSI, FPGA, SoC, SDR, AI & ML, Electronic Warfare, Wireless Power Transfer, Localization. | 05 |
| 7 | Mechanical Engg. | Indentation, Deformation behaviour, Impact Mechanics, Surface Engineering, Tribology, Avionics, FEM, Vibration & PEGT, Broad area of Mechanical Engineering & its allied Branch, Composite material processing, Additive manufacturing, Micro Machining, Surface Engineering, CFD, Fluid Mechanics, Blast, Hardened Structures, Terramechanics, CFD, FSI, Shock tube Blast Valve, Heat Transfer, Composite structures, Fracture Mechanics, Functionally Graded Structures, Impact Mechanics, Heat transfer, Fluid Mechanics, Flow Control. | 14 |
| 8 | School of Defence Technology Management | Supply Chain Management, Quality Management, Operation Research, Industrial Engineering, Technology & Human Behaviour, Knowledge Management, Technology Management. | 04 |

* The number of vacancies is only indicative and DIAT reserves the right in this matter.

The candidates applying for Ph.D Programme will be given opportunity to opt for a Joint Supervision in Ph.D Programme, with the Homi Bhabha National Institute (HBNI), Birla Institute of Technology and Science (BITS), CSIR – Central Scientific Instruments Organizations (CSIR-CSIO) Chandigarh.

Eligibility for External Part Time Research Scholar:

- A candidate seeking admission to the Ph.D. program, shall be required to have passed the qualifying examination securing at least 55% marks or equivalent CGPA/DGPA. A relaxation of 5 % of marks may be allowed for those belonging to SC/ST/OBC (non creamy-layer) / PWD - (Divyang) categories. The qualifying degrees are:-
 - a) Master of Engineering/Master of Technology (or equivalent) for Ph.D. in Engineering/Science.
 - b) Master in Science (M.Sc. or equivalent) for Ph.D. in Science
 - c) BE/B.Tech with 10 years of research/industrial experience for Ph.D. in Engineering / Science.
 - d) For School of Defence Technology Management:
 - i) ME/M.Tech/MBA/MS in relevant discipline. (Science/Engineering/Management)
 - ii) BE/B.Tech with 10 years of research / Industrial experience
 - e) A candidate who is sponsored as a part-time candidate by a government department / public sector undertaking / R & D, with at least five years of relevant experience, who shall work for his/her Ph.D. in his/her parent organization fulfilling the residency period requirement as per Rules & Regulations for the Award of the Degree of Doctor of Philosophy - 2016. The candidate is required to submit a NOC, sponsorship (if any) and work experience certificate from the parent organization. [Annexure I & J]
- Project Staff from DRDO Laboratories & DIAT [JRF/SRF/RA] working under sponsored projects may be allowed to register for PhD, subject to fulfilling eligibility criteria **AND / OR** qualified GATE/NET examination. After completion of project, if the student is qualified in GATE/NET or any other national exams etc. he/she may be eligible for DIAT fellowship as per DIAT rules.

Last Date of Application:

A duly filled-in application in the prescribed proforma may be forwarded to the Joint Registrar (Academics), DIAT (DU), Girinagar, Pune-411025 to reach on or before **14th Nov 2025**.

Selection:

Admission to Ph.D. will be based on the performance in the entrance exam (written test) conducted by the concerned department / school followed by a personal interview.

Course Fee & Other Charges:

MoD Sponsored (DRDO & Service Officers) & MoD Self-Sponsored (DRDO & Service Officers)

Candidate: Selected candidates for the Ph.D programmes are required to pay Semester Fee @ Rs.50,000/- per semester, Rs. 6000/- as Admission fee and Caution deposit of Rs. 20,000/- payable immediately at the time of joining,

For Industry Sponsored, Other R&D Govt. Organisations, DPSU's, Govt. Industry etc: Selected candidates for the Ph.D programmes are required to pay Semester Fee @ Rs.65,000/- per semester, Rs. 6000/- as Admission fee and Caution deposit of Rs. 20,000/- payable immediately at the time of joining,

Project Staff from DRDO Laboratories: Selected candidates for the Ph.D programmes are required to pay Semester Fee @ Rs. 37,000/- per semester (for Gen & OBC) and @ Rs. 22,000/- (for SC & ST), caution deposit of Rs. 20,000/- & Rs.6000/- as Admission fee payable immediately at the time of joining.

From 3rd year onwards @ Rs. 42,000/- per semester (for Gen & OBC) and @ Rs. 27,000/- (for SC & ST), Fees payable up to submission of thesis by candidate admitted to Ph.D. programme shall be as prescribed by the Institute from time to time.

Important Dates:

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| ➤ Last Date of receipt of Hard copy of application | :14th Nov 2025 |
| ➤ Tentative Date of Written Test / Interview | :12th Dec 2025 |
| ➤ Tentative date of commencement of the programme | :1st week of Jan 2026 |
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