



Defence Institute of Advanced Technology

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

Girinagar, Pune-411025

Ph.D. Programmes- July-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 July-2026 as per description below.

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

Sr. No	Department / School	Subject / Research Area	Vacancy
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, Control welding, Entropy Alloy, 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, Polyurethane Synthesis.	05
2	Electronics Engg.	Radar, Radar Signal Processing, FPGA, SAR, RF Photonics, Space Optical Communication, Optical Antenna/ Filter/Isolator Design, RF, Microwave, EMI/EMC Shielding materials, Antenna Stealth Technology, UAV, Signal Processing, Robotics, Drone Surveillance, Underwater Acoustic, Intelligence, Radar, Anti Drone Technology, RFID, Antennas, Microwave Circuits, Wireless Power Transfer, Energy Harvesting, Embedded System, FPGA, VLSI, SoC, SDR, AI & ML.	05
3	Computer Science & Engineering	AI/ML, LLM, Cyber Security, Game Theory, Quantum ML & Security algo, Embedded AI, Embedded CS, Anonymous Networks, Responsible AI, QML, Embedded AI, Embedded Cyber Security, Responsible AI, Post Quantum Cryptography, Blockchain Technology, Secure Software Engineering, AIML, Computer Vision, Computer Sci, Cyber Security, Operating Sys, Malware Analysis, Network Forensics, Offensive Security, Hardware Security, On-Chip Networks, Digital Forensics.	10
4	Applied Mathematics	Applied Mathematics, Mathematical Modelling & Simulation, Fluid Mechanics, Convective in porous medium, Bio-Mechanics with AI & ML, Heat and Mass Transfer, FEM, AI/ML Methods to PDE, Numerical Solutions of PDEs with FEMs, FDMs and DDMs, Machine Learning for Numerical Methods and Scientific Computing, Mathematical Image Processing and Computer vision, AI for Scientific Discovery, Deep Learning, Computer Vision, LLM, Data Science, Machine Learning, Predictive maintenance, Non-Parameter Methods, Statistical, Machine Learning, Dimension Reduction.	08
5	Applied Chemistry, Energy and Environment.	Ionic Liquids, Hydrogen generation and combustion, Membrane separation, Energy Storage, Wastewater Treatment, CO2 sequestration, High Energy Materials, Bio-fuels, Hydrogen Fuel Cell, Solar thermal applications- Photovoltaics, Desalination, Energy Management, Solar Energy, Hydrogen storage and refueling, Thermal management, CFD and Heat Transfer, Sustainability.	04

6	Mechanical Engg.	Indentation, Deformation behaviour, Impact Mechanics, Surface Engineering, Tribology, Avionics, FEM, Vibration, Impact Mechanics, Repairing Technology, Damage Mechanics, Fracture Mechanics, Composite Structure, Stress Analysis, Composite material processing, Additive manufacturing, Micro Machining, Surface Engineering, Creep, CFD, Fluid Mechanics, Composite Structures, Fracture Mechanics, Functionally Graded Structures, Impact Mechanics, Heat transfer, Fluid Mechanics, Flow Control.	13
7	Aerospace Engg. and Autonomous Systems.	Robotics Control, Aerodynamics, Guidance & Control of Aerospace Vehicle, Aerospace Structures.	05
8	School of Quantum Technology	Quantum Communication, algorithms and theory, Quantum Metrology & Sensing, Quantum Simulation & Quantum machine learning, Optical Quantum Computing, Quantum Optics.	01

* 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).
 - b) Master in Science (M.Sc. or equivalent).
 - c) BE/B.Tech with 10 years of research/industrial experience for Ph.D. in Engineering / Science.
 - d) 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 (if any) 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]

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 **15th May 2026**.

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,

Revised Important Dates:

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| ➤ Last Date of receipt of Hard copy of application | :15 th May 2026 |
| ➤ Tentative Date of Written Test | :13 th June 2026 |
| ➤ Tentative date of commencement of the programme | :1 st week of July 2026 |
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