



Defence Institute of Advanced Technology

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

Girinagar, Pune-411025

Ph.D. Programmes- July- 2022 Batch

Category - MoD Sponsored (DRDO & Services)

Applications are invited for admission to Ph.D. Programmes for Session July-2022, as per description below.

Details of Department-wise vacancies for admission to PhD Programme July-2022.

Sr. No.	Department	Subject/Research Area	Vacancies under MoD Sponsored
1	Aerospace Engineering	Aerodynamics.	02
2	Applied Chemistry	Propellants Energetic Materials	02
3	Applied Mathematics	Applied Mathematics, Fluid Mechanics, Computer Vision, Machine Learning, Medical Imaging, Data Science	05
4	Applied Physics	Optical Communication, Optical Instrumentation.	02
5	Computer Science & Engineering.	Quantum Machine Learning: secure IoT, Secure Cyber Physical Systems, Augmented Reality / AI/Cyber Security, Cryptography, Post Quantum Cryptography, Trusted computing, Secure Software Engineering, Deep learning, Computer Vision, Crowd Activity Detection, AI, Machine Learning, Human Activity Recognition, OS Security, NLP, Malware Analysis.	07
6	Electronics Engineering	Very High Freq/TH/Plasma Antenna, Radar Signal Processing Micro-Doppler Emerging FSO Communication DSP in FPGA SAR / ISAR Radar, Signal Processing UAV Surveillance Time Frequency analysis signal processing for AI and Machine Learning.	03
7	Metallurgical & Materials Engineering	Physical and Mechanical Metallurgy, Deformation behaviour of Materials, Welding, High Entropy Alloys, Bulk Metallic Glass and Nano Materials, Computational Materials Engineering, Electronics Materials, Photo voltaic.	02
8	Mechanical Engineering	Additive Manufacturing, Composite, Surface Engg, High Speed Machining, Impact Mechanics, Static/Dynamic Indentation, Tribology, CFD, Fluid Mechanics, Heat Transfer, Composite Structures, Fracture Mechanics, Active Flow Separation Control, Thermal Management of Electronic Equipment.	05
9	School of Robotics	Guidance Control and motion planning of autonomous system, Robot dynamics & control, Modular Robotics UAV, Nonlinear Control.	04
10	School of Quantum Technology	Quantum Communication, Quantum Metrology & Sensing, Quantum Materials, Quantum Simulation & Quantum Machine Learning.	06
		Total	38

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

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 PhD 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 PhD 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 and work experience certificate from the parent organization. [Annexure I & J]

Last Date of Application:

Duly filled-in application in the prescribed proforma may be forwarded to the Joint Registrar (Academics), DIAT (DU), Girinagar, Pune-411025 so as to reach on or before **20th May 2022**.

Selection:

Admission to Ph.D. will be based on the performance in the entrance exam (written test) conducted by the department concerned 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 payable immediately on joining, and caution deposit of Rs. 10,000/-

Important Dates:

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| ➤ Last Date of receipt of Hard copy of application | : | 20 th May 2022 |
| ➤ Tentative Date of Written Test / Interview | : | 2 nd / 3 rd week of June 2022 |
| ➤ Tentative date of commencement of the programme | : | 1st week of July 2022 |
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