Defence Institute of Advanced Technology

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

Girinagar, Pune-411025

Master of Science (by research) - July- 2022 Batch
Category - MoD Sponsored

Applications are invited for admission to Master of Science (by research) Programe for Session July - 2022, as per description below.

<u>Details of Department-wise vacancies for admission to Master of Science (by research) Programme July - 2022.</u>

Sr. No.	Department	Subject/Research Area	Vacancies under MoD Sponsored
1	Applied Mathematics	Applied Mathematics, Machine Learning Data Science	04
2	Applied Physics	Lasers & Optoelectronics.	01
3	Computer Science and Engg.	Cyber Physical Systems, AIML, QML, Artificial Intelligence, Virtual Reality, Machine Learning, Deep Learning, Cyber Security, Cryptography, Secure Software Design, Trusted Computing, Software Engineering,	10
4	Electronics Engg.	Underwater Signal Processing FPGA Prototyping, Signal Processing AI and Machine Learning, Wearable Antenna RFID, GaN Power Amplifier.	07
5	Metallurgical & Materials Engg	Nanomaterial for Energy storage application, Nano composite for Energy harvesting application, Nano hybrid materials for drug delivery application, High Entropy Alloys, Powder Metallurgy, Deformation behaviour of materials, Thermomechanical Processing of Metallic Materials, Texture, Friction Stir Processing / welding, Amorphous / Nanostructured alloys, Magnetic / Mechanical Properties for defence application, Computational Materials Engineering, Microstructural Modelling, Perovskite Solar Cells, Supercapacitors, Organic Photovoltaics, Battery Modelling, Machine learning / Artificial intelligence.	05
6	Mechanical Engg	Composite Material, Micro Machining, Surface Engineering, CFD, Heat transfer, Fluid Mechanics, Fracture Mechanics, Adhesively Bonded Joints, Composite Structures, Blast, Protection devices, Fluid-structure interaction, Flow Separation Control. Heat transfer & Fluid Mechanics.	05
7	School of Robotics	Control and motion planning of autonomous system, Robot dynamics and control, Wearable Robots, Modular Robotics, Path Planning & Trajectory Planning.	04
8	School of Quantum Technology	Quantum Communication, Quantum Metrology & Sensing, Quantum Materials, Quantum Simulation & Quantum Machine Learning.	04
9	Technology Management	Project Management, Supply Chain Management.	01
	Total Vacancies		**41**

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

Eligibility for External Part - Time Research Scholar:

- The qualifying degrees are:-

    a) Bachelor's degree in Engineering / Technology or Master's degree in appropriate Science (M.Sc.) with good academic record.

    c) The candidate must have at least two years work experience to be considered under External Registration programme.

    d) Additional and stiffer criteria than the minimum educational qualification given above may be set by the Selection committee from time to time for short listing candidates to be called for test/ interview.

    e) A research scholar under external registration programme will normally carry out part or all of his/her research work in the organization employing the scholar under the supervision of a co-guide employed in the same organization and a guide at DIAT.

Last Date of Application:

Duly filled-in application in the prescribed proforma may be forwarded to the Jt. Registrar (Acad), DIAT (DU), Girinagar, Pune-411025 so as to reach on or before **15th June 2022**

Selection Procedure:

Eligible candidates possessing the minimum educational qualifications and satisfying additional criteria set by the department from time to time will be called for Test/ Interview by Selection committee.

Course Fee & Other Charges:

MoD Sponsored Candidates: Selected candidates for the Ph.D programmes under MoD Sponsored Category are required to pay Semester Fee @ Rs.50,000/- per semester, payable immediately on joining and caution deposit of Rs. 10,000/-

Rules & Regulations :

Rules and Regulations of the Post Graduate Programme is available at Institutes website www.diat.ac.in

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