



Defence Institute of Advanced Technology

(Deemed to be University Under Section 3 of UGC Act 1956), Girinagar, Pune

Ph.D. Programmes- January- 2019 Batch

Applications are invited for admission to Ph.D. Programmes (Under Institutional Scholarship Category) as per description below.

Introduction:

Defence Institute of Advanced Technology (DIAT) is Technological Institute of National repute for higher learning. The Institute imparts education and training in Advanced Technologies used for Tri-services, DRDO, DPSUs etc. DIAT found its roots in 1952, as a training institute has grown over the years into a premier teaching and research institute for DRDO and the Armed Forces.

The main focus of the institute is to evolve as an Innovative Unique Research University to develop indigenous contemporary defence related technologies and also to provide technological solutions to the Services. DIAT is committed to generate high quality and talented human resource in broad areas of Defence Technologies to cater the needs of DRDO, Armed Forces and other Defence establishments.

DIAT offers admission to PhD (full-time) in the frontier areas of Aerospace Engineering, Mechanical Engineering, Electronics Engineering, Computer Science & Engineering, Applied Physics, Applied Mathematics, Materials engineering and Applied Chemistry. Limited few Institute Fellowships are available.

Department-wise areas of Research are as under:

Sr. No	Deptt.	Subject / Research Area	Approx. No. of Vacancies Category wise * in each Dept (With Institutional Fellowship)#			
			GEN	OBC	SC	ST
1	Metallurgical & Materials Engg	Magnetic Materials, Sensors, Multifarious Shape Memory alloys, Thermo Mechanical Processing of Metallic Materials, Texture of Materials, Grain Boundary Engineering.	0	0	01	0
2	Aerospace Engg	Aerodynamics, Fluid Mechanics	0	01	0	0
3	Applied Mathematics	Modelling and Simulation, Numerical Analysis / Methods (Computational and Theoretical Aspects), Image Processing, Theoretical / Computational Fluid Dynamics (Mechanics), Cryptography.	01	01	0	01
4	Mechanical Engg	Functionally Graded Structure, Damages in FRP Composites, CFD, Fluid Mechanics, Composite Structures, Repairing Technology, FEA, Fracture Mechanics.	0	01	0	0
5	Computer Science & Engg.	Network Security, Game Theory, Fault Tolerant Computing, Hyper spectral imaging, Multimedia Forensics steganography, Malware analysis, Biometric Video Surveillance, Cyber Security.	01	0	0	0
6	Electronics Engg	Radar / Array Signal Processing, Microwave, RF IC Design, Radar System Design, Antenna, EMI/EMC/EMP, DSP.	01	0	0	0
7	Applied Physics	Application of Nanomaterials /Sensors / Photovoltaics / Solar Cells.	01	0	0	0
8	Applied Chemistry	Metal chalcogenides, Quantum Dots, Metal/Polymer Nanocomposite, Organometallic Chemistry and Coordination	0	0	01	0

		Chemistry, Nanotechnology for defence applications, Nano fluids, Nano inks, Organic Synthesis Energetic Materials, Organic-Inorganic Hybrid materials, Mesoporous materials, Self-assembly, Functional Organic Nanocrystals, Materials for Energy Application, Catalysis, Nanocomposites.				
	Total Vacancies		04	03	02	01

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

Eligibility:

a) Qualification

- 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
- A candidate who has passed the qualifying examination with the requisite percentage of marks as prescribed above and who fulfill the following requirement may be considered for admission to the Ph.D. programme:-
 - a) Qualified in a national level test such as, CSIR/UGC NET (Fellowship), Graduate Aptitude Test for Engineering (GATE), Rajiv Gandhi National fellowship, subject wise and category wise GATE/NET (Fellowship) cut off will be decided by DIAT.

b) Age limit

Not above 30 years as on 22nd Nov 2018.
Relaxations as per GOI rules apply to SC / ST / OBC / PH applicants.

Note:-

- The Institute shall implement the reservation policy in Ph.D. admission in accordance with relevant act of Parliament being in-force from the time.
- A physically Handicapped SC/ST/OBC candidate shall not get double benefit of being an SC/ST/OBC as also a PWD candidate.

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.

Financial Assistance:

- a) The selected Ph.D. candidates against this admission notice, admitted as full-time Ph.D. students will be provided financial assistance as per Institute rules, in force from time to time. The Ph.D. students (who are provided Institute fellowship) will be required to assist in research and teaching activities for a maximum of 10 hours per week in addition to their own duties.
- b) In addition to the Ph.D. scholarship, such candidates would also be entitled for contingency grant (presently ₹15,000/- per year) in accordance with the decisions of the Institute.

Boarding / Lodging:

Accommodation and mess facilities are available in the PhD Scholar Hostel on payment basis. However, due to very limited rooms in the Hostel, it may or may not be possible to provide Hostel accommodation to all the students. The present monthly charges towards boarding and lodging are ₹ 7000/- (subject to revision). However, ₹ 40,000/- is to be deposited at the beginning of each Semester towards lodging and boarding charges, **in advance**. A security deposit of ₹ 10,000/- would need to be paid to Hostel Office.

How to Apply:

Application form is available at Institute's website <http://www.diat.ac.in>. Application fee of ₹ 500/- for General / OBC category (₹ 250/- for SC/ST & Women candidates) per programme is required to be paid either online (through State Bank collect) or by Demand Draft drawn in favour of Vice Chancellor, DIAT, Pune, payable at Pune. The filled application form in the prescribed proforma has to be forwarded in a sealed envelope, super scribed "Application for Admission to PhD Programme in the Department of _____" to the Joint Registrar (Academics), Defence Institute of Advanced Technology, Pune 411025 along with the DD / online generated receipt and self certified copies of mark lists, certificates and other testimonials. These documents should reach DIAT latest by on or before **22nd Nov 2018**. Postal delay will not be entertained. **Candidates seeking admission to more than one Department need to apply separately.**

General Information:

- Since the applications may be short listed, mere possessing of the prescribed qualifications would not entitle a person to be called for test/interview. The Institute may restrict the number of candidates to be called for test / interview to a reasonable limit, on the basis of qualifications / marks higher than that of the minimum prescribed in the advertisement.
- For short listing of candidates, the department screening committee may decide subject-wise and category-wise GATE/NET Cut off.
- Application once made will not be allowed to be withdrawn and fees once paid will not be refunded on any count nor can it be held in reserve for any other admission process.
- Canvassing in any form will be a disqualification. Postal delay shall not be entertained.
- No correspondence will be entertained in respect of advertisement, interview, selection etc. The list of Shortlisted candidate will be displayed on <http://www.diat.ac.in> website along with other information viz. date of Written Test / Interview / Result. The candidates are requested to check the DIAT (DU) Website <http://www.diat.ac.in> for related information from time to time.

Course Fee and Other Charges:

Selected candidates for the Ph.D programmes are required to pay Semester Fee @ ₹.25,000/- per semester (for Gen & OBC) and @ ₹ 15,000/- (for SC & ST) payable immediately on joining and a caution deposit (refundable at the end of the Programme less dues if any) of ₹ 10,000/-, commencing from January 2019.

Important Dates:

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| ➤ Last Date of receipt of Hard copy of application | :22 nd Nov 2018 |
| ➤ Tentative Date of Interview / Written Test | :3 rd / 4 th week of Dec 2018 |
| ➤ Tentative date of commencement of the programme | :1 st Week of Jan 2019 |
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