



# Defence Institute of Advanced Technology

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

Girinagar, Pune

## Ph.D. Programmes- January- 2019 Batch Category - MoD Sponsored (DRDO & Services)

Applications are invited for admission to Ph.D. Programmes for Session January - 2019, as per description below.

### Details of Department-wise vacancies for admission to PhD Programme January - 2019.

#### PhD Programme at DIAT (DU) - Jan 2019

Sr. No.	Department	Subject/Research Area	Vacancies under MoD Sponsored
1	Aerospace Engineering	NIL	NIL
2	Applied Chemistry	NIL	NIL
3	Applied Mathematics	Applied Mathematics, Fluid Mechanics (Application to Defence), Physiological Dynamics, Numerical Solution to PDEs.	03
4	Applied Physics	Detonation wave progression in explosively loaded channels of materials. Multipoint initiation design, channel architecture, numerical simulation using hydro-code and experimental validation through different materials/explosives.	01
5	Computer Science & Engg	Trusted Computing, Secure Software Engineering, Cryptography, Artificial Intelligence, Computational Intelligence, Cyber Security, Machine learning, Malware Analysis, Wireless Security, Pattern recognition, Deep learning.	04
6	Electronics Engg	Microwave, Antenna, RF System, Radar System and Signal Processing, Radar Imaging, Photonics Radar, EMI/EMC/EMP, Digital Signal Processing.	04
7	Metallurgical & Materials Engg	Shape Memory alloy Magnetic Materials Sensors, Polymer Composites / Nanocomposites, Ballistic Composites (DMRL).	03
8	Mechanical Engg	Composite Structures, Repairing Technology, FEA, Fracture Mechanics, Impact Dynamics, Dynamic Indentation, Composite Materials; Micro Machining; Coating, CFD, Fluid Mechanics, Functionally Graded Structure, Damages in FRP Composites, Fracture Mechanics.	04
<b>Total Vacancies</b>			<b>19</b>

\* 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:-
  - 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) 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 sponsorship and work experience certificate from the parent organization.

### **Last Date of Application:**

Duly filled-in application in the prescribed proforma may be forwarded to the Joint Registrar (Academics), DIAT (DU), Pune so as to reach on or before **22<sup>nd</sup> Nov 2018**.

### **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) Candidates:** Selected candidates for the Ph.D programmes under DRDO Sponsored Category are required to pay Semester Fee @ Rs.50,000/- per semester, payable immediately on joining.

**Self - Sponsored (Service Officers) Candidates:** Selected candidates for the Ph.D programmes under Self-Sponsored Category are required to pay Semester Fee @ Rs.15,000/- per semester (for Gen & OBC) and @ Rs. 10,000/- (for SC & ST) payable immediately on joining and a caution deposit (refundable at the end of the Programme less dues if any) of Rs.10,000/-.

### **Important Dates:**

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