



Defence Institute of Advanced Technology

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

M.Tech Programmes- July- 2018 Batch

Applications are invited for admission to M.Tech. Programmes, as per description below.

Introduction

Defence Institute of Advanced Technology (DIAT) is a Technological Institute of National repute of MoD/DRDO for higher learning. The Institute imparts education and training in the Advanced Technologies used for Tri-services, DRDO, DPSU's etc.

The main focus of the institute is to evolve as an Innovative Unique Education/ Training and 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 recourse in broad areas of Defence Technologies to cater the needs of DRDO, Armed Forces and other Defence establishments. **The PG programmes** are designed to include course of study, seminars, industry tours, Practice School and project/ thesis in association with DRDO/DPSU and other agencies through which a student may develop his/her concepts and intellectual skills. Above all, the students should have a capacity for free and objectives enquiry, courage and integrity, awareness and sensitivity to the needs and aspirations of society.

DIAT announces admissions to the following Post Graduate programmes for the academic year 2018 – 19, to eligible Indian citizens

MASTER OF TECHNOLOGY (M.TECH.) PROGRAMMES

| Sr. No. | Programme Title (M.Tech) | Specialisations | Eligibility [Minimum Qualification with 55% of marks or 5.5 CGPA (on a 10-point scale) in the qualifying examination] for <u>Scholarship candidates.</u> |
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| 1 | Aerospace Engineering (Total Intake: 50) | Guided Missiles | B.E./B. Tech. degree in Aerospace/ Aeronautical or AeSI/ Mechanical/ Chemical/ Electrical/ Electronics/ Electronics and Communication / Instrumentation from recognized university/ AMIE or as per DIAT norms. |
| | | Air Armament (Only for MoD sponsored) | Bachelor's Degree in Aeronautical/Mechanical Engineering of a recognized Institute/University. or as per DIAT norms. |
| | | UAVs | B.E./B. Tech. degree in Aerospace/ Aeronautical or AeSI/ Mechanical/ Chemical/ Electrical/ Electronics/ Electronics and Communication / Instrumentation from recognized university/ AMIE. or as per DIAT norms. |
| | Mechanical Engineering (Total Intake: 75) | Marine | Bachelor's Degree in Mechanical / Marine Engg of a recognized Institute / University |
| | | Armament and Combat Vehicles (ACV) | B.E/B. Tech degree in Mechanical / Production / Automobile Engg of recognized Institute / University |
| | | Robotics * (Interdisciplinary) | B.E/B. Tech degree in Mechanical / Electronics / Electrical / Computer Science & Engg Aerospace Engg disciplines from recognized University |
| | | Mechanical System Design | B.E/B. Tech degree in Mechanical / Production Engineering disciplines from recognized Institute/University |

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| 3 | Computer Science and Engineering | Cyber Security | BE/B. Tech. in Computer Science/ Electronics/ Electrical/ Communication/Information Technology or M.Sc. in Computer Science. |
| | (Total Intake: 25) | Software Engg. and Intelligent Systems | |
| 4 | Modelling & Simulation | | The candidate must have qualified from a recognized Institute / University in Bachelors Degree in Engineering / Technology / OR MSc / MS degree in CS /IT / Mathematics/ Physics /Electronics .Provided mathematics is one of the subject at the graduate level and Proficiency in computer programming is essential. |
| 5 | Sensor Technology(ST) | | Master degree in Physics/Applied Physics/Electronics/ Electronic Science/ Photonics or equivalent OR a B.E. / B. Tech / B. Sc (Engineering) degree in Electronics/ Instrumentation / Electrical & Electronics Telecommunication ./ Electronics and Communication Engg./ Engg. Physics,/Nanotechnology. |
| 6 | Lasers and Electro-Optics (LEOC) | | Master degree in Physics/Applied Physics/Electronics/ Electronic Science / Photonics or equivalent OR a B.E. / B. Tech / B. Sc (Engineering) degree in Electronics/ Electrical & Electronics/ Electronics and Communication Engg./ Computer Science/ Engg. Physics/ Optical Engg/ Instrumentation/ Optics & opto-electronics.. |
| 7 | Opto Electronics and Communication System | Optical Communication & Photonics | Master degree in Physics/ Applied Physics/ Electronics/ Electronic Science/ Photonics or equivalent OR a B.E. / B. Tech / B. Sc (Engineering) degree in Electronics / Electrical & Electronics / Electronics and Communication Engg./ Computer Science/ Engg. Physics/ Optical Engg/ Instrumentation/ Optics & opto-electronics. |
| 8 | Technology Management(\$) | | B.E/B. Tech/M. Sc from a recognized university / Institution of India. |

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| 9 | Electronics & Communication Engineering (ECE) | Radar & Communication | B. E. / B. Tech degree in Electronics & Communication / Electronics/Communication/Telecommunication Engineering from any recognized university or equivalent degree. |
| | | Defence Electronics Systems (DES) | B.E./B. Tech degree in Electronics/ Communication/ Instrumentation/ Telecommunication/Electrical Engineering from any recognized university, or M Sc Degree in Electronics and Physics specialized in Electronics from any recognized university. The core intake will be sponsored candidates from Defence R&D Organisation as DRDO, DGOF, Public Sector Undertakings and service officers who meet the eligibility criteria mentioned above. |
| | | Signal Processing & Communication | B. E. / B. Tech degree or equivalent in Electronics & Communication/ Electronics/ Communication / Telecommunication Engineering from any recognized university or equivalent degree. |

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| | | Wireless Networks & Applications | B. E. / B. Tech degree or equivalent in Electronics / Electrical / Communication / Telecommunication / Electronics & Instrumentation / E & TC Engineering/ Computer Engineering / Computer Science & Engineering / Information Technology / Instrumentation Engineering. |
| | | Navigation Systems | B. E. / B. Tech degree or equivalent in Electronics / Electrical / Communication / Telecommunication / Electronics & Instrumentation / E & TC Engineering / Computer Science & Engineering / Information Technology / Instrumentation Engineering |
| | | VLSI & Embedded Systems (In collaboration with NIELIT, Calicut) | B. E. / B. Tech degree or equivalent in Electronics / Electrical / Communication / Telecommunication / Electronics & Instrumentation / E & TC Engineering / Computer Science & Engineering / Information Technology / Instrumentation Engineering |
| 10 | Material Science and Chemical Technology (MS &CT) (Total Intake: 75) | Materials Science and Technology (MST) | B.E./B.Tech or equivalent in Metallurgy / materials Science/ Materials Engineering/ Mechanical Engineering/ Production / Ceramic Engineering/ Chemical Engineering/ manufacturing Engineering/ Polymer Engineering/ Nanotechnology; M.Sc or equivalent in Physics/ Chemistry/Environmental Science/Applied Chemistry/Polymer Chemistry/ Marine Architecture |
| | | Chemical Science and Tech. (CST) | M.Sc. in any branch of Chemistry, BE/B.Tech in Chemical Engineering or BE / B.Tech (polymer/ Textile Engineering) or equivalent degree .(For others except MST) |
| | | Energetic Materials & Polymers (EMP) | |
| 11 | Materials Engineering (#) (Total Intake: 24) | | B.E./B.Tech or equivalent in Metallurgy / Materials Science/ Materials Engineering/ Mechanical Engineering/ Production / Ceramic Engineering/ Chemical Engineering/ manufacturing Engineering/ Polymer Engineering/ Nanotechnology; M.Sc or equivalent in Physics/ Chemistry/Environmental Science/Applied Chemistry/Polymer Chemistry/ Marine Architecture |
| 12 | Corrosion Technology (#) (Total Intake: 26) | | |

NOTE: * Robotics is a multidisciplinary specialisation M.Tech degree will be awarded as per the UG Degree of the student viz. M.Tech in EE/ME/AE etc.

Sponsored (DRDO/Tri Services/DPSUs/PSUs/Industry) only.

\$ Applicable for sponsored/self sponsored candidates only.

A. ELIGIBILITY:

I. SCHOLARSHIP CATEGORY

a) Qualification:-

- Engineering/Technology or a Master's degree in Science as applicable to the programme[@] with 55% aggregate marks/5.5 CGPA and **valid GATE score**.
- **Age Limit:** - Not more than 26 years as on 01 July 2018. Relaxations as per GOI rules.

- Admission to the M. Tech programme shall be made directly based on GATE score. Candidates are required to submit separate applications for each specialization. Admission to a specialization shall be made based on separate GATE discipline wise merit list. DIAT reserves the right to offer the specialization on given M Tech programme.
- Candidates under sponsored category (MoD sponsored) will be admitted through Research & Training (R & T) and Postgraduate Training (PGT) schemes for DRDO and Tri-services Officers including Coast Guard respectively. Such candidates need to apply through their employer. These admissions shall be operated jointly by DIAT and RAC/DRDO (through DHRD/DRDO).
- Candidates under non-MoD sponsored category (DPSUs/Industry) will be admitted through by his/her employer .A separate selection committee appointed specifically for the purpose will examine the suitability/ eligibility. Such sponsored candidate must be in service of the sponsoring organization. The sponsoring organization must specifically undertake to provide full salary to the candidate and to relieve him/her to pursue the programme for its full duration. **Sponsored candidates are exempted from qualifying GATE requirement and there is no age limit.**

@ **NOTE:** Refer the Institute website (www.diat.ac.in) for the details of eligibility w.r.t. the specialization.

Reservation Policy:

DIAT follows the reservation policy of Govt. of India as applicable to Higher Educational Institutions for reservation of seats for SC, ST, OBC and PWD candidates.

Financial Assistance:

Scholarship Category students are eligible for applying for Scholarship (Presently Rs. 12,400/- per month) under DBT scheme of AICTE, during the M. Tech Course, subject to attendance. No financial support will be available from DIAT (DU), Pune.

Boarding / Lodging:

Mess facilities are available in the POINTS Hostel on payment basis. A very limited hostel accommodation is also available.

Application Procedure:

Interested candidates under Scholarship Category should apply ONLINE only. The application fee for each program (specialisation) is Rs 500/- for General & OBC Category and Rs. 250/- for women and reserved category (SC/ST/PWD) candidates. The application fee can be paid online or by Demand Draft drawn in favour of Vice Chancellor, DIAT, payable at Pune. The application fee is **non-refundable**

IMPORTANT DATES

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| ➤ The online application process will start on | 20 March 2018 |
| ➤ Last Date for accepting online application form | 13 Apr 2018 |
| ➤ Last Date of receipt of Hard copy of application | 20 Apr 2018 |
| ➤ Tentative Date of Interview / Written Test | 1 st / 2 nd week of June 2018 |
| ➤ Tentative date of commencement of the programme | 1 st Week of July 2018 |