DEFENCE INSTITUTE OF ADVANCEDTECHNOLOGY

(Deemed to be University)
Girinagar, Pune – 411025 (Maharashtra)

www.diat.ac.in

INFORMATION BULLETIN

Admission to
M. Tech. in Industrial Systems Engineering
(Specialization: Model Based Systems Engineering)
For Working Professionals
2025-2026

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1. About DIAT

Amidst the lush, green Sahyadri Hills and overlooking the picturesque Khadakwasla Lake lies the Defence Institute of Advanced Technology (DIAT). Established on 1st May 1952 as the Institute of Armament Studies, it was originally located on the sprawling campus of the College of Military Engineering, Dapodi, Pune. In 1967, the institute was renamed the Institute of Armament Technology and relocated to its present location at Girinagar, Pune. Since then, the institute, under the aegis of the Department of Defence Research and Development, Ministry of Defence, Government of India, has grown in strength and stature. It was recognized as a Deemed-to-be University on 1st April 2006. The institute has also acquired ISO 9001:2000 certification from DNV, Norway. Having been conferred the status of a Category "A" Deemed-to-be University by the Ministry of Human Resource Development, Government of India, the institute is now on its path to achieving NBA and NAAC 'A' Grade accreditations.

The Institute, a premier autonomous educational entity equipped with modern laboratories and well-qualified faculty members, is engaged in postgraduate education and research leading to M.Tech. and Ph.D. degrees.

Continuous efforts are made to maintain high standards of quality training in the critical area of modern Defence Technologies, thereby enhancing the technical capabilities of DRDO scientists, service officers, officers from defence industries, and fresh engineering graduates. The Institute also contributes to preparing skilled manpower for industries involved in the Government of India's "Make in India" campaign.

At DIAT, to meet the needs of the Armed Forces, DRDO, Defence Quality Assurance, Defence Ordnance Factories, Directorate of Aeronautical Quality Assurance, and other public sector undertakings, many specialized and customized postgraduate courses are conducted. In addition to the Ph.D. and M.Tech. programmes, the Institute also offers specific, limited-duration courses of 1 to 1.5 years, along with a variety of specialized short-term courses.

DIAT opened its doors to the general public in 2006 and has since been admitting students under the open category with scholarships for its Ph.D. and M.Tech. programmes. To

strengthen ongoing research initiatives and enhance the quality of teaching and training, the Institute has introduced a scheme for appointing “Visiting Professors/Scientists.”
The Institute is steadily progressing toward a quantum leap in the field of technical education and research, with a focus on the specific needs of the defence sector.

2. Location

Location of DIAT by Lat, Long is (18.424463, 73.758395) and GPS coordinates are 18° 25' 28.0668'' N and 73° 45' 30.222'' E.

Traveling from Mumbai to Pune takes about three hours by road or train. Private cabs such as Ola, Uber, and other services are frequently available from the airport and railway station.

Trains such as the Duronto, Intercity, and Deccan Queen run frequently from Mumbai Railway Station to Pune Railway Station.

Several trains, including the Duronto, Nizamuddin Express, Goa Express, and Mysore Express, run frequently from New Delhi Railway Station to Pune Railway Station. The journey takes approximately one day.

Many direct flights, such as those operated by SpiceJet, Air India, and IndiGo, are available frequently from New Delhi Airport to Pune Airport. The flight duration is about two hours.

3. Information Center and Library

Information Centre and Library (IC&L) is the knowledge hub of the Defence Institute of Advanced Technology (DU), Pune. It reflects the institute’s commitment to providing the best possible library and information services to its academic community, including faculty members, scientists, students, and staff. The IC&L is a significant resource for information related to defence, science and technology, and allied subjects in this region of the world.

The library houses a vast collection of both printed and digital resources. It offers a wide range of services, including reference and consultation, membership, circulation, document delivery, resource sharing, information alerts, bibliographic services, and digital library services. The IC&L continues its mission of facilitating new knowledge through the procurement, retrieval, preservation, organization, and dissemination of diverse resources. The library's collection—comprising books, journals, e-journals, databases, theses, reports, standards, and other reading materials—is its greatest asset. The library subscribes to 350 print and online journals and databases such as ScienceDirect, IEL, ASME, ACM, ProQuest (TRC, ABI/Inform), Scopus, SpringerLink, J-Gate, and e-books. The total collection includes 57,242 books, 4,772 e-books, 21,875 back volumes, 2,000 reports, and 1,762 dissertations and theses.

A compact storage system has been installed in the new library building to preserve older materials, including back volumes dating before the 1960s. To provide integrated access to its resources, the library uses LibSys-10, a web-centric library management software. IC&L has implemented RFID technology through LibSys-10 for managing its collections and services. RFID significantly reduces the time needed for circulation operations, as it allows information to be read from tags much faster than from barcodes. It also enables automated data collection without requiring line-of-sight or item-by-item scanning, reducing human effort and error.

The library has also developed the DIAT (DU) Digital Repository, an information system designed to ingest, store, manage, preserve, and provide access to digital content. The institutional digital repository supports scholarly communication and provides open access to articles, dissertations, research data, and more. It consists of formally organized digital content generated by faculty, staff, and students of the institute.

This repository plays a crucial role in capturing and managing the university's intellectual assets as part of its broader information strategy. The library uses DSpace, an open-source repository software package, to build and maintain this repository. DSpace meets DIAT's specific needs as a digital archive system, focused on long-term storage, access, and preservation of digital content.

4. Admission

Working professionals who fulfils the eligibility criteria will undergo Written Test & Interview or only Interview based on the number of applications received.
Minimum students' enrolment required to run this program will be 12.

5. Selection Process

Admission to M. Tech. in Industrial Systems Engineering (Specialization: Model Based Systems Engineering) will be based on the performance in the written test and interview or only interview depending upon the number of applications received. Interview will be conducted by a panel of experts through online/offline mode. The merit list will be valid only for the academic year 2025-2026.

6. Fee Structure

One Time Fee		**Total**
Admission Fee (Non-Refundable	Rs. 6000/-	Rs. 26,000/-
Caution Deposit (Refundable)	Rs. 20,000/-	
Per Semester Fee		Total
Tuition Fee	Rs. 1,06,000/-	Rs. 1,25,000/- per semester per student
Library Fee	Rs. 2,000/-	
Miscellaneous	Rs. 17,000/-	

7. Tentative Schedule of Admissions 2025-26

- Announcement of inviting Applications: 08/05/2025
- Last date to receive applications: 30/06/2025
- Announcement of candidates called for Written Test/ Interview (www.diat.ac.in): 07/07/2025
- Written Test & Interview or Interview at DIAT: 15/07/2025
- Announcement of Merit list (www.diat.ac.in): 16/07/2025
- Counseling cum Admission: 17th & 18th /07/2025

8. Instructions to Apply

The application fee for GEN, EWS, and OBC categories is INR 600/-, and for SC, ST, and PWD categories, it is INR 200/-. The application fee must be paid online through State Bank Collect. To make the payment, click on the **Online Payment Gateway** link available on the institute's homepage: www.diat.ac.in. **Do not use mobile applications** to make the payment.

The scan copy of application form with necessary documents in 1 single pdf format to be uploaded in Google Form (https://forms.gle/2htCYvqeHfx6iZMF9) and also to be sent through Email at mtech_admissions@diat.ac.in. No need to send the hard copy of the application by Post/ courier.

9. List of documents to be uploaded with application

- Copy of SSC/Class X marks card/certificate in support of Date of Birth.
- Copy of Intermediate/ (10+2) / Class XII marks card/certificate
- Copies of Provisional Certificate / Degree Certificates and Marks Cards of the qualifying examinations
- Copy of the valid caste certificate (in case of SC/ST/OBC/EWS candidates)
- Photograph on application form
- Fee payment receipt with transaction number
- NOC from the respective employer
- Certificate from the employer to confirm 2 years experience and his nature of work.

10. Department Specific Qualifications & Specializations

About the Program:

M. Tech. in Industrial Systems Engineering (Specialization in Model Based Systems Engineering) focuses on Systems Thinking, Systems Architecture, System Design, Modelling, Verification, Validation, AI/ML, Design Optimization etc. This program also put emphasis on specific domains like Aerospace/Automotive/Health Care/ Embedded Software - Systems Engineering.

Sr. No.	Offering Department	Programme (M.Tech.)	Specialization	Years	Minimum Qualification and Work Experience Required
1	Department of Aerospace Engineering	Industrial Systems Engineering	Model Based Systems Engineering	2.5 Years (5 Semesters)	**55% of marks or 6.0 CGPA (on a 10-point scale) in** B.E. / B. Tech. in any stream of Engineering / M.Sc. of a recognized Institute/University. Experience: Two years professional experience in Systems Development Engineering Process (in any engineering field including S/W Development like, coding, design, analysis, testing, etc: Candidate has to provide certificate from the employer to confirm his nature of work) and candidate has to provide NOC from their respective employer.

Mode of Conduct: Hybrid Mode
Faculties Involved: Professionals from Industries, Research Laboratories and Academia

Note: DIAT reserves the right to decide the number of seats to be filled under this category. By mere fulfilment of eligibility criteria does not guarantee the candidates to be shortlisted for written test / interview.
