

ABOUT DRDO

DRDO was formed 1958 from the amalgamation of the then already functioning Technical Development Establishment (TDEs) of the Indian Army and the Directorate of Technical Development & Production (DTDP) with the Defence Science Organisation (DSO). DRDO was then a small organisation with 10 establishments or laboratories. Over the years, it has grown multi-directionally in terms of the variety of subject disciplines, number of laboratories, achievements and stature.

ABOUT NIT JAIPUR

The Institute was jointly established in 1963 as Malaviya Regional Engineering College Jaipur by the Government of India and the Government of Rajasthan. Subsequently, on 26 June, 2002, the college was given the status of National Institute of Technology. On 15 August 2007, it was recognized as the Institute of National Importance through an Act of Parliament. The Institute is fully funded by the Ministry of Education (Shiksha Mantralaya), Government of India.

MISSION

To create technical manpower for meeting the current and future demands of industry: To recognize education and research in close interaction with industry with emphasis on the development of leadership qualities in the young men and women entering the portals of the Institute.

VISSION

technical education of international standards and conduct research at the cutting edge of technology to meet the current and future challenges of technological development.



One Week Short-Term Course on Additive Manufacturing for Defence Application (AMDA-2025)

(Hybrid Mode)

(Date: 3rd - 7th March, 2025)

Organized by

Department of Mechanical
Engineering MNIT Jaipur

And

Defence Research and
Development Organisation
(DRDO)

Malaviya National Institute of Technology Jaipur
J.L.N. Marg Jaipur – 302017 Rajasthan – India
<https://mnit.ac.in>

ABOUT THE DEPARTMENT

The Department of Mechanical Engineering at Malaviya National Institute of Technology Jaipur, is one of the institute's oldest and most prominent departments. Established in 1963, the department is recognized for its strong academic foundation, research contributions, and state-of-the-art facilities. We have experienced faculty and highly motivated students. The Department offers academic program at three levels i.e. Bachelor of Technology (B.Tech.), Master of Technology (MTech.), and Doctor of Philosophy (Ph.D.) degrees. In addition, continuing education program in specialized areas are offered on a regular basis for industry professionals and academic staff from other colleges. An extremely dynamic and large faculty, and a well experienced support staff, give the department a breadth of research focus and wide range of technical expertise.

ORGANIZING COMMITTEE

Patron

Prof. N. P. Padhy
Director, MNIT Jaipur

Chairman & Head of Department

Prof. T. C. Gupta,
Department of ME, MNIT Jaipur

Convenor (s)/ Organizing Secretary

Dr. Jinesh Kumar Jain,
Associate Professor, Department of ME, MNIT Jaipur
Dr. Yashwant Koli,
Assistant Professor, Department of ME, MNIT Jaipur

Coordinator (s)

Dr. Anup Malik, Dept. of ME, MNIT Jaipur
Dr. Tapas Bajpai, Dept. of ME, MNIT Jaipur

OVERVIEW OF THE COURSE

This course will give a broad review of the current scenario in the defense sector. This course is aimed to cover basic understanding of additive manufacturing, in the defense sector. This Course is also focused on development of basic concepts for non-metallurgical, industrial professionals to enhance their basic skills and knowledge in the field of additive manufacturing.

OBJECTIVES

- ❖ To update the participants with the state of the art in additive manufacturing.
- ❖ To provide the basic and advanced knowledge along with the case studies.
- ❖ To demonstrate the use of some machines in hands on training sessions.
- ❖ To enable the participants to identifying the use of additive manufacturing in the field of defence sector.
- ❖ To enable the participants to learn the path strategy of layer by layer additively manufactured samples.
- ❖ To empower the participants to offer a course on additive manufacturing for defence application at their respective institutions.

RESOURCE PERSONS

Prominent personalities from DRDO, IITs, NITs, etc., and Faculty members from Malaviya National Institute of Technology Jaipur.

COURSE CONTENT

- ❖ Materials for AM in Defense
- ❖ Design for Additive Manufacturing (DfAM)
- ❖ AM Techniques for Defense Applications
- ❖ Naval & Armaments Applications
- ❖ Process Optimization and Quality Control
- ❖ Challenges and Solutions in defense AM
- ❖ Emerging Trends and Future of AM in defense
- ❖ Real-world problem-solving and component development for defense

ELIGIBILITY

The programme is open for Diploma, B. Tech, Post Graduate students, Research scholars, and Faculties from technical institutions. Also open to industrial Professionals.

Note: Participation certificate will be issued only on completion of the Course.

Detailed schedule and session links will be shared to the participants through e-mail

REGISTRATION FEE (inclusive of 18% GST)

- ❖ The registration fee for Diploma, UG, and PG students is **Rs. 295/-**
- ❖ The registration fee for the Ph.D. fellow is **Rs. 590/-**
- ❖ The registration fee for faculties is **Rs. 1180/-**
- ❖ The registration fees for industrial professionals are **Rs 1770/-** per participant.

One Week Short Term Course

on

Additive Manufacturing for Defence Applications

(AMDA-2025)

(Date: 3rd – 7th March, 2025)

Registration Form

<https://forms.gle/WFUX7RzQA9uVaLFw8>

Mode of Payment: online

Account holder: Registrar MNIT Jaipur

Account No.: 676801700388

Name of the Bank: ICICI (MNIT Jaipur)

IFSC code: ICIC0006768

Please fill out the registration form online with the given hyperlink.

CONTACT PERSON

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Contact No.: +91 9873290034

NOTE

The last date for submitting the google form by 28-02-2025.