

## Objective of the Summer Internship Program

This program is designed to keep in mind the needs of the bright young undergraduate students of Mechanical Engineering who have the enthusiasm to learn the challenges in the emerging advanced manufacturing technologies and Post Graduate / PhD scholars who wants to carry out research in this domain. This program shall cover both theoretical as well as the research aspects which will not only enhance the knowledge of the learner but also skills for research in the similar domain to help them in Major B.Tech. projects / M.Tech. dissertation. The main theme of training program will be oriented around Advanced Manufacturing Technologies (AMTs). This small contribution will help in “Atma Nirbhar Bharat” and skill development in the technocrat.

## Areas of Research

The main areas of short term internship program will be:

- Casting technologies
- Advance manufacturing processes
- Hybrid machining processes
- Composite Materials
- Resistance welding
- MIG welding
- Additive manufacturing
- Simulation of welding processes
- CAD/CAM

## Eligibility / Target Participant

This summer internship program is targeted towards UG students and PG/PhD scholars of Govt. / Govt. aided / private / self-financed engineering colleges who are interested in advanced manufacturing technologies. All the undergraduate students of Mech. Engg. / Prod. Engg. etc., who are appearing in the 4th and 6th semester examinations are eligible to apply.

## How to Apply / Registration

UG Students (ME/ PE etc.) - 15,000/-

PG/PhD Scholars - 15,000/-

(Note: - PG/PhD specialization should be in Production / Manufacturing engineering or in similar domain).

For Fee Payment by DD: Demand Draft in favour of “Registrar, MNIT Jaipur” payable at Jaipur.

For online payment NEFT/IMPS:

**Registrar (ICC), MNIT Jaipur**

**Account No. 676801081625**

**IFSC CODE: ICIC0006768**

**(ICICI BANK, MNIT)**

Duly filled application by student in the prescribed format and sponsored by the respective Head of Department/Principal, may be sent to the Coordinator so as to reach on or before 30<sup>th</sup> April 2023. The applicant may also send an advance scanned copy of the application form and DD-copy through E-mail. The selection is on first come first served basis depending upon the availability of the seats. Registration charges are non-refundable for selected participants. The above fee does not include any kind of lodging-boardings.

## Address for Communication

**Dr. Pankaj Kumar Gupta**

Assistant Professor,

Department of Mechanical Engineering,

Malaviya National Institute of Technology,

J.L.N. Marg, Jaipur-302 017, Rajasthan

Mobile: - +91-9759878050

E-mail- Pankaj.mech@mnit.ac.in

## Registration Form Summer Internship Program-2023 on

**“Research Practice on Advanced Manufacturing Technologies”**

**15<sup>th</sup> May – 15<sup>th</sup> July, 2023**

Department of Mechanical Engineering  
MNIT Jaipur - 302 017 Rajasthan

Name : \_\_\_\_\_

Category (UG/PG): \_\_\_\_\_

Branch: \_\_\_\_\_

Year of Study: \_\_\_\_\_

Department: \_\_\_\_\_

Institute: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

Phone (M) \_\_\_\_\_ Email: \_\_\_\_\_

Accommodation required? **Yes / No**

Tentative first priority of area of research \_\_\_\_\_

Registration fee details

Draft No./UTR \_\_\_\_\_ Dt \_\_\_\_\_

For Rs \_\_\_\_\_ in favour of “**Registrar,**

**MNIT Jaipur**” is enclosed.

The above information provided is true and to the best of my knowledge. If, selected, I agree to abide by the rules and regulations of the program and MNIT Jaipur.

**Date:** \_\_\_\_\_ **Signature of Candidate**

The applicant will be permitted to participate in the above program, if selected.

**Date:** \_\_\_\_\_ **Signature of HOD/Principal with Seal**

## About MNIT Jaipur

Malaviya National Institute of Technology Jaipur (Deemed University) is one of the premier NITs, designated with the status of “Institute of National Importance” by MoE. The institute was established in 1963, and its campus spreads over 325 acres of lush green area in the central location of Jaipur city. The institute offers undergraduate and postgraduate courses (B.Tech., M.Tech. /MBA / M.Sc. & Ph.D.) to about 4500 students, in leading fields of engineering, technology, architecture, management & sciences. Through the internationally renowned faculty, laboratories with state of art equipments and excellent infrastructure, the institute is actively engaged in research, consultancy and developmental activities, besides imparting regular teaching.

## About Mechanical Engineering Department

The Department is one of the oldest departments of the institute, offering a fine blend of experience and innovation in teaching. Presently, offering undergraduate in Mechanical Engineering and post-graduate studies in Design Engineering, Thermal Engineering, Production Engineering and Industrial Engineering. The department is home to over 50 research scholars, pursuing Ph.D. in various fields of Mechanical Engineering. The department provides a life-long learning experience, through its state of art laboratories, vast pool of courses, and industry-orientation.

## About Production Engineering Labs

The department has the following state of the art labs in the domain of Production Engg with high end equipment's i.e.

Tribology & Advanced Composite Lab  
CAD/CAE Lab  
Advance Manufacturing Lab  
Mechatronics Lab  
Metal Cutting Lab  
Casting and welding lab

## Resource Persons

The various areas of this internship program will be preceded by the Program Coordinators. During the programme, participants will undergo literature review, problem formulation, experimentation, testing and analysis followed by research publication. Participants will have chance to interact with faculty members to finalize the research interest in advanced manufacturing technologies.

## About Jaipur

The city of Jaipur, also known as Pink City, is the capital and largest city of Rajasthan. Jaipur has tourist attractions like Hawa Mahal, Amber Fort, Jaigarh Fort, Nahargarh Fort, Jal Mahal, Kanak Vrindavan Valley, City Palace, Jantar Mantar, Albert Hall Museum, Sisodia Rani Garden, Govind Devji Temple, and Birla Temple. Jaipur is well connected by road, rail and air services. It is about 250 kms from Delhi. MNIT Jaipur is situated on JLN Marg and is about 9 kms from both, Jaipur Junction and ISBT (Sindhi Camp). Airport is about 4 kms away from the institute.

## Organizing Committee

### Patron

Prof. N.P. Padhy, Director, MNIT-Jaipur

### Chairman

Prof. Himanshu Choudhary,

Prof & Head, Mech. Engg. Dept.

### Co-Chairman

Dr. Amar Patnaik, Associate Professor

Dr. Harlal Singh Mali, , Associate Professor

### Program Coordinators

Dr. Pankaj Kr. Gupta, Assistant Professor

Dr. Tapas Bajpai, Assistant Professor

Dr. Anup Malik, Assistant Professor

## Accommodation

Limited accommodation is available in the MNIT Hostels for outstation participants on nominal charge and first come first serve basis. The participant will not be paid any TA/DA. Charges of Institute Hostels are approximately Rs. 200/- per day excluding food.

## Deadlines

Last date of receiving complete Registration form 30th April 2023

Confirmation of Selection by E-mail 1<sup>st</sup> May 2023

Internship Duration 15th May to 15th July 2023

## Self-Financed

## Summer Internship Program-2023

## With the theme of

## “Atma Nirbhar Bharat”

## on

## Research Practice on Advanced Manufacturing Technologies

May 15th – July 15th, 2023



## Organized By:

**Department of Mechanical Engineering**  
**Malaviya National Institute of Technology**  
**Jaipur- 302 017 (www.mnit.ac.in)**