

Summer Internship Program

Aligned with Skill India

on

Measurement-based Ergonomics in Engineering Systems: Applications and Practice (MEESAP-2026)

(25th May - 8th July 2026)



ORGANIZED BY Ergonomics Lab

Mechanical Engineering Department

Malaviya National Institute of
Technology Jaipur

JLN Marg, Malviya Nagar, Jaipur -302017

Website: <https://www.mnit.ac.in/>

About the MNIT Jaipur

The Malaviya National Institute of Technology Jaipur is one of the National Institutes of Technology established by the Ministry of Human Resource Development, Government of India. The Institute, earlier known as MREC, was founded in 1963 as a joint venture of the state and central governments. In 2002, it was granted the status of a National Institute of Technology, and on August 15, 2007, it was declared an Institute of National Importance through an Act of Parliament.

The MNIT campus spreads over 325 acres of lush green land in a prime location of Jaipur. At present, in addition to research, consultancy, and developmental activities, the Institute offers undergraduate and postgraduate (M.Tech., M.Sc., and Ph.D.) programs to about 5000 students across almost all major fields of engineering, technology, management, and sciences.



About the Department

Department of Mechanical, one of the institute's oldest and largest departments, offers B.Tech., M. Tech. and PhD programs with a strong focus on practical learning. It also supports part-time doctoral research for professionals from industry and academia. Faculty members are actively engaged in consultancy, sponsored research projects funded by agencies such as ISRO, DRDO, DST New Delhi etc. The department also conducts training programs and workshops to keep pace with evolving industry trends, with research specializations spanning Industrial, Thermal, Production and Design Engineering.

About the Internship

The summer internship at the Ergonomics Lab, MNIT Jaipur provides a comprehensive platform to bridge theoretical concepts of human factors with practical engineering applications. Conducted in an advanced laboratory setting, it offers hands-on experience with tools such as EMG for muscle activity analysis, RULA/REBA for posture assessment, and ErgoMaster for ergonomic risk evaluation. The program seamlessly integrates technical learning with real-world problem-solving, enabling participants to analyze and improve workplace systems.

Patron

Prof. N. P. Padhy
Director, MNIT Jaipur

Advisors

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Prof. Amar Patnaik, Dean FW

Program Chair

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Convenors

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Dr. M. L. Meena

Professor

Ergonomics Lab (PE-7)

Mechanical Engineering Department

MNIT Jaipur, JLN Marg, Malviya Nagar, Jaipur -302017 (Raj)

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Course Content

- Fundamentals of Ergonomics and Human Factors Engineering
- Anthropometry and Human Body Measurements
- Biomechanics and Posture Analysis (RULA, REBA)
- Muscle Activity and Fatigue Analysis using EMG
- Human Performance Evaluation (Work Capacity, VO₂, Energy Expenditure)
- Environmental Ergonomics (Noise, Vibration, Air Quality Assessment)
- Hand Ergonomics and Dexterity Analysis
- Workplace and Work Systems Design
- Ergonomic Risk Assessment using ErgoMaster Software
- Experimental Design and Analysis in Ergonomics
- Mini Projects/Case Studies

**The actual course contents may vary as per the type of participants (B.Tech./M.Tech./PhD/Industrial employee)*



About Ergonomics Lab

The Ergonomics Laboratory was established in the Department of Mechanical Engineering in the year 2018 by Prof. M. L. Meena to promote research and training in human-centered engineering design and occupational health. The lab focuses on measurement-based ergonomics, integrating advanced instrumentation and analytical tools to evaluate human performance, safety, and efficiency in engineering systems.

The laboratory is equipped with state-of-the-art facilities such as Surface Electromyography (EMG) system, Human Vibration Analyzer, Digital Audiometer, Spirometer, Treadmill, Ergo Cycle, Hand Dynamometer, Pinch Gauge, Purdue Pegboard, and ErgoMaster Software.

The lab supports interdisciplinary research in areas including biomechanics, human performance analysis, workplace design, occupational safety, and environmental ergonomics. It aims to develop engineering solutions that enhance productivity, reduce fatigue and injuries, and improve overall human well-being in handicraft, agricultural and other industrial systems.

Eligibility

Students currently pursuing or aspiring to pursue relevant engineering disciplines are eligible to apply. This includes B.Tech, M.Tech, and Ph.D candidates from Mechanical, Industrial, Production, Design, Automobile, Agricultural, and other related engineering streams. Applications from interested professionals working in relevant industries may also be considered.

Registration Fee

B.Tech.	: Rs.10,000/- + Rs.1800/- (18%GST)
M.Tech./Ph.D.	: Rs.15,000/- + Rs. 2700/- (18%GST)
Industrial Employee	: Rs. 25,000/- + Rs. 4500/- (18% GST)

Payment Mode

Payment for the internship fee can be done using the QR code or by online payment in the following bank account:
A/C Name: Registrar,

Sponsored Research,
MNIT Jaipur

A/c No.: 676801700388

Bank Name: ICICI Bank

IFSC Code: ICIC0006768

Branch: MNIT Jaipur



After completing the payment, kindly upload the payment receipt as proof in the Google Form provided below.

All applicants are required to register by submitting their details through the given Google Form link:

<https://forms.gle/3zFuFPLS4xuciEtCA>

General Information

- Participants are responsible for their own accommodation, food, and travel expenses.
- Limited hostel accommodation at MNIT may be available on request, subject to availability, on a chargeable basis.
- The registration/internship fees are non-refundable.
- All communication regarding the Summer Internship Program (SIP) will be made only through email: ergolabmnit@gmail.com