HOW TO APPLY/REGISTER

Registration Start Date	19/03/2025
Last Date of Registration	15/04/2025
Last date of deposition of fees	15/04/2025
Commencement of Training Program	12/05/2025

The fee will be paid through online mode. Registration charges are non-Refundable. Online registration can be done in following three steps: -

Step 1 :- Register by going through the following links or by scanning QR code.

https://forms.gle/2pabuvZpk8HqhBxL6

Step 2: Fil the google form and upload the required documents.

Step 3 : - Submit the google form.

Note: Separate charge as per university norms will be applicable if any student is allowed for hostel accommodation during internship period.

Eligibility:
Students of various institutions comprising of Diploma/ B.Tech / M.Tech / MSc to register.

Account Details.
Account No.: 33542824744
IFSC Code : SBIN0002578
Account Name: Madan Mohan Malaviya University of Technology.
Bank Name: State Bank of India

COURSE FEE

Fee Type	Registration Fee
For Other University/Institute Students	INR 2,000 /-
For MMMUT Students	INR 2,000 /-

AWARDS

The participants who have completed a minimum of 3 minor projects and 1 major project with minimum of 75% attendance will be given "Successful Completion Certificate".

The best project from each domain from (IoT, Drone, 3D Printing, Ansys and Artificial Intelligence) will be awarded.

SPEAKERS/INSTRUCTORS

- Prof. S. K. Soni, ECED, MMMUT, Gorakhpur
- Dr. Prateek, ECED, MMMUT, Gorakhpur
- Dr. Chandan, ECED, MMMUT, Gorakhpur
- Mr. Manas Upadhyay, CEO & Founder D-Town Pvt. Ltd. Greater Noida
- Mr. Sumit Singh, MED, MMMUT, Gorakhpur
- Mr. Shivam Kumar Yadav, ECED, MMMUT, Gorakhpur
- Mr. Ankit Kumar, ECED, MMMUT, Gorakhpur
- Mr. Vivek Shukla, Unilactic Enterprises, Mumbai

REGISTER HERE

SCAN HERE

CONTACT US

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sy76076@gmail.com

Six-Week Summer Internship on IoT, Drone, 3D Printing, AI & Ansys Modelling and Simulation

12 May to 28 June 2025

Organised By

IoT AND DRONE DESIGN LAB,
Centre of Excellence
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
(NBA ACCREDITED)
MADAN MOHAN MALAVIYA UNIVERSITY OF TECHNOLOGY, GORAKHPUR (UP)

Patron
Prof. J. P. Saini
Vice Chancellor
MMMUT, Gorakhpur

CHAIRMAN
Prof. S. K. Soni
HOD, Electronics and Communication Engineering, MMMUT, Gorakhpur

Principal Coordinator
Prof. S. K. Soni Electronics and Communication Engineering, MMMUT, Gorakhpur

ABOUT SCHEDULED EVENTS

INTERNET OF THINGS

1.	Introduction to IoT
2.	IoT Hardware and Platforms
3.	IoT Programming and connectivity.
4.	IoT Communication Protocols.
5.	Implementation of two Node MCUs to act in the access point mode and the station mode using MQTT protocol.
6.	Measurement of humidity & temperature of an open environment considering DHT11/SHT20 using Raspberry pi (Microprocessor) and representing the data using google-charts API.
7.	Wi-Fi based home automation using Node MCU (ESP8266) on Blynk platform.
8.	Development of security device using IR sensor and Node MCU using Blynk platform.
9.	Development of Master-Slave model using Arduino with Arduino as a Master (i) Node MCU as a Master.
10.	IoT-based Irrigation System using the ESP8266 Node MCU Module and DHT11 Sensor.

DRONE

1.	Introduction to drone.
2.	Drone Hardware Components.
3.	Flight mechanics and control Systems.
4.	CFD Analysis of UAV.
5.	Aerodynamic Analysis of Propulsion System of UAV
6.	Design and Development of Drone using NAZA flight controller and frame designed in 3D printing.
7.	Development of pre-guided path UAV (Drone) using Pixhawk flight controller.
8.	Developing the medical relief UAV using NAZA V2 flight controller to pick-&-drop First-Aid Box
9.	Development of FPV Surveillance drone using Pixhawk flight controller.

3D PRINTING

1.	Introduction to 3D Design and CAD Tools.
2.	Design of Quad-Copter drone frame using fusion 360 software and 3D printer.
3.	Design of IoT Node Casing in 3D printer.
4.	Lightweight FPV quadcopter.
5.	Design of 2D plotter using 3D printed parts.

ARTIFICIAL INTELLIGENCE

1.	Introduction to AI and ML
2.	Overview of AI and ML
3.	Types of ML: Supervised, Unsupervised, Reinforcement
4.	Real-world Applications
5.	Python Basics and Key Libraries
6.	Python Fundamentals: Variables, Control Flow, Functions
7.	Machine Learning Algorithms
8.	Supervised Learning: Regression, Classification Unsupervised Learning: Clustering, Dimensionality Reduction
9.	Deep Learning: Convolutional neural networks
10.	Image Classification using CNNs.

ANSYS

1.	Introduction to ANSYS.
2.	Simulation of Materials.
3.	Electronics simulation.
4.	Project on Ansys