



**SCAN THE QR CODE  
FOR REGISTRATION FORM**



**For Making Course Fee Payment, NEFT details are as below:**

**Bank A/c Name:** MNIT Innovation and Incubation Centre

**A/c Number:** 676801700527

**Bank Name:** ICICI BANK, MNIT, Branch

**IFSC Code:** ICIC0006768

**Accommodation:**

Limited accommodation may be arranged for the students in the Boys and Girls hostels on payment basis as per Institute norms.

**Limited Seats:**

- Preference will be given on first come first serve basis only.
- Confirmation email shall be sent to the aspiring participants only after the receipt of payment

**ORGANISING COMMITTEE**

**PATRON**

Prof. N. P. Padhy  
Director, MNIT Jaipur

**Program Co-Patron**

Prof. Jyotirmay Mathur  
Head, MIIC

**Program Convener**

Prof. Monica Sharma  
Secretary, MIIC  
Associate Dean - Incubation

**Program Co-Convener**

Prof. Amar Patnaik  
Treasurer, MIIC

**Program Coordinator**

Dr. Sanjay Gaur  
Senior Operations Manager, MIIC

**Contact Person**

Ms. Divya Pareek  
Senior Executive, MIIC MNIT Jaipur  
**Mob.:** 7742983512

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**MNIT INNOVATION AND INCUBATION  
CENTRE (MIIC)**



**Announces:**

**Summer Internship Program (SIP) 2024**



**Last Date of Registration :**

**15th May 2024 (60 Days) | 30th May 2024 (45 Days)**

**Date of Commencement :**

**01st June to 2024 to 15 July 2024 (45 Days)**

**16th May 2024 to 15th July 2024 (60 Days)**



**MALAVIYA NATIONAL INSTITUTE OF  
TECHNOLOGY, JAIPUR  
(RAJASTHAN) 302017**

## ABOUT MIIC

MNIT Innovation and Incubation Centre (MIIC) is established since 2016 at MNIT Jaipur, as a sector agnostic Technology Business Incubator (TBI) by Govt. of India to provide a platform for conceiving, realizing, promoting & nurturing knowledge-based Innovation & Entrepreneurship amongst students, innovators, and budding entrepreneurs from the state of Rajasthan. MIIC has a strong and vibrant footprint of 121 start-ups. Currently, 30 start-ups are incubating their ideas physically in MIIC, besides the 10 associate start-ups and are working in various domains. MIIC has to date conducted more than 207 start-up programs and activities to address the practical and business concerns of the Rajasthan ecosystem stakeholders, benefitting 21000 plus participants.

## ABOUT PROGRAM

Summer Internship Program (SIP) is an integral part of B.Tech, M.Tech, and MBA curricula. SIP is a great opportunity to gain research experience, develop project management skills and enhance knowledge through real Industrial problems. The internship runs for 6-8 weeks through the summer. Academic supervisors allocate self-contained projects, spanning a broad range of subject areas and feeding directly into current research and teaching activities. During SIP, students work on a project and are trained to handle various equipment and machines available in the laboratory. The programs are industry/project-based and address the fundamental understanding and the applications related to the specific domain.

## COURSE CONTENT

### Program – I

#### Machine learning : Basic concepts to Applications in Healthcare (BCAH)

##### In Association with Svaarogym Medical Devices Pvt. Ltd.

**Module I -** Python • Introduction to Python • Basic language syntax • Model Building • Data Science and Analysis • Data Visualization

**Module II -** Basics of Machine Learning • Machine Learning Concepts • Machine learning Models • Supervised Learning • Unsupervised Learning/Reinforcement learning • Deep Learning

**Module III -** Internet of Things • Basics of IoT, Concepts and Components • Internet of Things (IoT) : Basic Implementation on open source • IoT in Healthcare: Challenges and Opportunities • Healthcare Cyber Physical System • Applications and Case study of Cyber Physical Systems in Healthcare

**Module IV -** User-Centered Medical Device Design • Introduction and Importance of User-Centered Design • Low & High Fidelity Modeling • User Persona • Human Factors Design • Task Analysis/Empathy Maps

**Module V -** Data Analysis • Linear Regression • Naive Bays • SVM • PCA, NFM • Clustering

**Module VI -** Neural Networks • Introduction to NN • Deep neural Network: Case study in healthcare • Convolution Neural Network: Case study in healthcare • Recurrent Neural Network: Case Study in healthcare • Auto Encoders: Case study in healthcare • Smart Healthcare Applications • Physiological signal processing for Healthcare (ECG, EMG, EEG etc.) • Smart Healthcare: Concepts and applications • Intelligent Healthcare applications • Embedded Intelligence System • Regulatory, Standardization, Risk Management, Ethics for Medical Devices

**Eligibility: 2nd/3rd/4th Year B.Tech (C.S./IT/Electronics)**

**Course Fees: Rs. 8000/-**

### Program – II

#### Design and Development of Electric Vehicle (DDEV)

##### In Association with Rishi Agastya Technologies Pvt. Ltd.

**Module I:** Presenting your Vehicle Development Strategy  
Practical Session: Introduction to Computer Aided Design

**Module II:** Introduction to Chassis Statics & Dynamics  
Practical Session: Introduction to Parametric Modelling & Chassis Simulation

**Module III:** Control Module of an Electric Vehicle  
Practical Session: Practical Session: Introduction to PCB Design on Proteus and basic applications using microcontrollers.

**Module IV:** Introduction to the Suspension System  
Control Module of an Electric Vehicle  
Practical Session: Practical Sessions: Condition for the correct steering geometry and its correlation with Ackermann and Davis steering gear mechanism. Front Wheel Geometry viz., camber, castor, toe-in, king-pin inclination, etc.

**Module V:** Basic Structure Development  
Practical Sessions: design a Basic Structure of the Vehicle and assemble of all the components.

**Module VI:** Project Development and Testing • Develop a full-scale working model of electric vehicle • Testing and troubleshooting

**Eligibility: Any branch of B.Tech. (Any Semester)**

**Course Fees: Rs. 9000/-**

### Program – III

#### Master the Art of Public Speaking (MAPS)

##### In Association with Mystic Brains Pvt. Ltd.

**Module I:** PERSONALITY DEVELOPMENT- Create strong personality by learning Confidence, Communication, Voice Modulation & Presentation Skills.

**Module II:** POWERFUL COMMUNICATION- Learn to prepare powerful speech, quotes and Learn storytelling as per target audience.

**Module III:** PROGRESSIVE INNOVATION- Learn Creative mindset, Ideation to implementation and inspirational stories of greatest minds that can create personal and social impact.

**Module IV:** PERSONAL BRANDING & TIME MANAGEMENT- Learn public speaking skills, Social Media optimization and prioritizing your tasks wisely.

**Eligibility: Open for All Streams**

**Course Fees: Rs. 10,000/-**