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

Accomodation:
Limited accomodation 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 fist serve basis only.
- Confirmation email shall be sent to the aspiring participants only after the receipt of payment

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ORGANISING COMMITTEE

PATRON:
Prof. N. P. Padhy
Director, MNIT Jaipur

Program Co-PATRON:
Prof. Jyotirmay Mathur
Head, MIIC

Program Convener:
Dr. Monica Sharma
Associate Dean - Incubation

Program Coordinator:
Dr. Sanjay Gaur
Senior Operation Manager, MIIC

Contact Person:
Ms. Divya Pareek
Senior Executive, MIIC MNIT Campus Jaipur
Mob.: 7742983512

Email: miic@mnit.ac.in • **Website:** miic@mnit.ac.in

MNIT INNOVATION AND INCUBATION CENTRE (MIIC)

Announces:

Summer Internship Program (SIP) 2023

Last Date of Registration - 13 May 2023
Date of Commencement
01 June 2023 to 15 July 2023 (45 Days)
16 May 2023 to 15 July 2023 (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 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 110 start-ups. Currently, 39 start-ups are incubating their ideas physically in MIIC, besides 9 associate start-ups and are working in various domains. MIIC has to date conducted more than 169 start-up programs and activities to address the practical and business concerns of the Rajasthan ecosystem stakeholders benefitting 12,500 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, each student is assigned a project and is 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
Unmanned Ariel Vehicle (Drone) Solid works & 3D Printing (UAV)
In Association with ZeroGravity Aero Systems Pvt. Ltd.

Module I - Introduction • Fundamentals of physics • Basic Aeronautics • Air frame structure
Module II - Basic electronics • Basic mechanics • Model building techniques • Drones rules and regulation
Module III - Scales • Plan making • Auto CAD • Solid works
Module IV - Corel draw • 3d Printing • Laser Cutting • Preparation of Flight Electronics
Module V - Hot Wire Cutting • Balsa Building • Wing Construction
Module VI - Fuselage Construction • Tail/Fin • Model Assembly • Electronics Installation
Module VII - Simulator Training • Gliding Training • Circuiting Training
Module VIII - Takeoff Training • Landing Training • Solo Flight
Eligibility: All branches of B.Tech. (Any Semester)
Course Fees:15000/-

Program – II
Application of AI and ML in Healthcare (AAMIH)
In Association with Svaarogym Medical Devices Pvt. Ltd.

Module I Python Programming • Introduction to Python • Basic language syntax • Model Building • Data Science and Analysis • Data Visualization,
Module II Basics of Machine Learning • Machine Learning Concepts
Module III: User-Centered Medical Device Design • User Persona • Human Factors Design • Task Analysis/Empathy Maps
Module IV: Internet of Things • Basics of IoT, Concepts and Components • Sensor Interfacing using Internet of Things (IoT) : Basic Implementation.
Module V: Machine Learning Approaches • Regression analysis • Basics of Classifiers • Feature Selection and Reduction techniques • Model evaluation through performance parameters
Module VI • Study of Clustering Algorithms, Advance Neural Networks • Introduction to NN • Deep neural Network: Case study in healthcare.
Module VII • AI in healthcare Applications • Physiological signal processing for Healthcare (ECG, EMG, EEG etc.) • Mental Disorder detection & Diabetes prediction and detection
Module VIII • Prediction of Coronary Artery Detection using Fundus Images • Intelligence Prosthetic Application • Brain Tumor detection
Eligibility: All branches of B.Tech. (Any Semester)
Course Fees: Rs. 12000/-

Program – III
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 & DynamicsPractical Session: Introduction to Parametric Modelling & Chassis Simulation
Module III: Component-based Structure of an Electric Vehicle Practical Session: a. Battery modeling (Software Based) b. Battery Management System (Software Based)
Module IV: Introduction to Transmission System, Control Module of an Electric VehiclePractical Session: a. Using Excel Techniques to calculate the Top Speed and acceleration performance. b. Using Excel Techniques to calculate the Range of the vehicle.
Module V: PCB Design
Eligibility: All branches of B.Tech. (Any Semester)
Course Fees: Rs. 9000/-

Program – IV
Design Thinking for Entrepreneurship (DTE)
In Association with Entrepreneurship Experts of MIIC

Module I- Introduction to design thinking
Module II- Introduction to Entrepreneurship; Entrepreneurial Process; Opportunity Identification
Module III- Idea Generation and Evaluation
Module IV- Developing Prototype, Minimum Viability Product
Module V- Building the Team, Leadership, Business Plan/Business Models
Module VI- Valuation of a new company, Finance, Funding, and Unit Cost Identification.
Module VII- Sales & Marketing, Company Growth Acquisitions, and exit strategies.
Module VIII- Intellectual Property and corporate lawReal-Life Association and Learning with Start-ups / Organizations in Identified Areas.
Eligibility: Students of B.Tech/M.Tech/MBA.
Course Fees:Rs. 9000/-

Program – V
Advanced Computational & Technical Skills (ACTS)
In Association with Tishitu Technology And Research Pvt. Ltd.

Module I- Machine learning models: Learn from their past computations, analyze available data, identify hidden patterns and adapt for new data such as Quantum Computing, Tuned Recommendation Engines.
Module II- Artificial Intelligence: Design human-computer interaction/ intelligent machines such as Cortana, Siri, Alexa, and Eliza.
Module III- Li-Fi communication: Futuristic and eco-friendly, high-speed secure VLC wireless communication by LED/lamp.
Module IV- Augmented Reality: Superimposition of computer-generated images on real-world providing a composite view such as Google Glasses, AR Gaming, Green screen, Chroma keying, VFX.
Module V- Internet Of Things: Interconnection of physical devices with cyber world/cloud computing Industry 4.0, Smart city/ agriculture/ healthcare, Remote bomb detonators, drones, surgery and military operations.
Module VI- Embedded Systems: Embed an idea in a microcontroller and perform a real-world application found in various consumer, commercial, industrial and military electronic devices.
Module VII- Robotics: Simulation of design, construction, operation, and control, sensory feedback, and information processing by ROS and MATLAB.
Eligibility: 3rd/4th Year B.Tech (C.S./IT/Electronics)
Course Fees:Rs. 15000/-