MNIT INNOVATION AND INCUBATION CENTRE (MIIC)

Announces:

Summer Internship Program (SIP-2022)
in

- **Unmanned Aerial Vehicle (UAV)**

- **Digital Marketing Solution (DMI)**

- **Application of AI, ML and IoT in Healthcare (AAMIH)**

- **Design and Development of Electric Vehicles (DDEV)**

Registration Closes-27 May, 2022

Commencement Date- 2 June, 2022

Program Duration: 6/7 Weeks

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

About MNIT Innovation And Incubation Centre (MIIC):

MIIC is a Technology Business Incubator (TBI) sponsored by DST GOI, New Delhi, and was established in December 2016. MIIC's objective is to provide a platform for Conceiving, Realizing, Promoting & Nurturing knowledge based Innovation & Entrepreneurship amongst all aspiring entrepreneurs. MIIC extends incubation support to startups primarily but not limited to the areas of Product or Process design / Re- design, Material or Process innovation, Information & Communications Technology.

MIIC provides all round support for creating an entrepreneurial culture and developing knowledge-based Entrepreneurship amongst Students, Faculty and Staff of MNIT Jaipur as well as for other institutes, startups, and aspiring entrepreneurs Pan India, leading to successful ventures.

About The Program : SIP-2022

Summer Internship Program (SIP) is an integral part of B.Tech, M.Tech and MBA curriculum. SIP is a great opportunity to gain experience of research, develop project management skills and enhance one's knowledge through real Industrial problems. Internship runs for 6-7 weeks through the summer. Students are allocated self-contained projects by academic supervisors/ start-up's domain experts, spanning a broad range of subject areas and feeding directly into current research and developmental 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/ projects based and address the fundamental understanding as well as the applications related to specific domains.

COURSE CONTENT

Program-I
Unmanned Aerial Vehicle (UAV) in Partnership with Zerogravity Aero Systems Pvt. Ltd. (www.zerogravityaerosystems.com)

Week-1: Introduction • Fundamentals of physics • Basic Aeronautics • Air frame structure • Basic electronics • Basic mechanics • Model building techniques •
Week-2: • Drone Rules and Regulations • Scales • Plan Making • Autocad. • Solidworks
Week-3: Corel Draw • Solidworks Projects • 3D Printing and Software required for 3D Printing • LaserCutting • Preparation of Flight Electronics
Week-4: Wing Construction • Fuselage Construction • Tail/Fin Constriction • Model Assembly
Week-5: Introduction to aircraft Electronics • Electronics Installation •Simulator Training • Gliding Training • Circuiting Training
Week-6 Takeoff Training • Landing Training • Solo Flight • Training for Boeing National AeromodellingCompetition

Eligibility: B.Tech./M.Tech Students (Any Semester, Any Stream)
Course Fee: Rs.15000/-
Duration: 6 Weeks

Program- II
Digital Marketing Interventions (DMI) in partnership with Polysol Infotech Pvt. Ltd. (www.polysolinfotech.com)

Week 1: Search Engine Optimization
Week 2: Search Engine Marketing
Week 3: Social Media Optimization
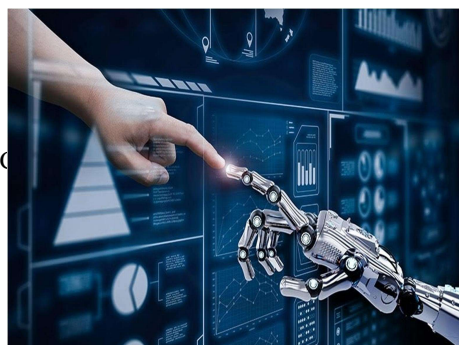**Week 4:** Affiliate Marketing
Week 5: Graphic Designing & Website Development using (
Week 6: Email, Mobile & E-commerce Marketing

Eligibility: UG/PG Students (Any Stream)
Course Fee: Rs.12000/-
Duration: 6 Weeks

Program-III

Application of AI, ML and IoT in Healthcare (AAMIH) in partnership with Svaarogyam Medical Devices Pvt. Ltd.

Week-1: Introduction to Python, Basic language syntax, Model Building, Data Science and Analysis, Data Visualization.
Week-2: Basics of Machine Learning, Basics of Regression, Various Regression Models, Various Classification Models, Deep Learning
Week-3: Linear Regression, Navie Bays, SVM, PCA, NFM, Clustering
Week-4: Introduction to NN, CNN, RNN, FLAN, DNN.
Week-5: Classical RL, Basic model design, Deep RL, RL designing 1, RL designing 2.
Week-6: Embedded System Basics, ARM Cortex architecture, ARM Instruction sets, Role of Embedded System & Application in healthcare
Week-7: IoT Basics, IoT in Healthcare, Role of Machine Learning in Healthcare, Healthcare Cyber Physical System, Smart Healthcare Application

Eligibility: B.Tech./M.Tech Students (Any Semester, Any Stream)
Course Fee: Rs.12000/-
Duration: 7 Weeks

Program-IV

Design and Development of Electric Vehicles in partnership with Rishi Agastya Technologies Pvt Ltd

Week-1 Presenting your Vehicle Development Strategy; Introduction to Chassis Statics & Dynamics and Component based Structure of an Electric Vehicle

Week-2: Control Module of an Electric Vehicle; PCB Design & Development and Practical Exposure to Vehicle Development.

Week-3: Introduction to Transmission System; Understanding the dynamics of Transmission System and Introduction to the Suspension System

Week-4: Understanding the Suspension Dynamics; Introduction to Steering System and Understanding the concepts of Braking Dynamics

Week-5: Role of Heat Transfer in case of Braking System; Cooling System Flow and Heat Exchange

Week-6: Basic Structure Development and Project Development and Testing.

Eligibility: B.Tech./M.Tech Students (Any Semester, Any Stream)
Course Fee: Rs.8000/-
Duration: 6 Weeks

Registration Form

"SIP-2022"
MNIT Innovation and Incubation Centre (MIIC) Jaipur (Rajasthan)-302017

Full Name: _____

Institute/organization:_____

Present Course/Position_____

Semester/Year_____

Address of Correspondence:

_____

_____

Pin Code:_____

Mobile:_____

E.mail:_____

Select Program: ☐ I-UAV   ☐ II-DMI

☐ III-AAMIH   ☐ IV- DDEV

Training Duration: ☐ 6 Weeks   ☐ 7 Weeks

Details of Registration Fee:
Name of Bank & Branch:

DD No.:/NEFT Tr. no._____Dated:_____

For Rs._____(DD should be in favor of "MNIT Innovation And Incubation Centre", payable at Jaipur)

Date: **Signature of Participant**

Limited Seats:

- Confirmation email shall be sent to the aspiring participants, only after the receipt of payment is received (Attach Scanned copy of DD/Online receipt with transaction/reference ID in Email.)
- Scanned copy of the filled form is to be mailed / posted along with the DD of the course fee.

Fee Details:

Applicable course fee is to be paid through: Demand Draft (DD) drawn in favour of **"Coordinator, MNIT Innovation And Incubation Centre"**, payable at Jaipur

Or

by NEFT, details for which are:
A/c Name: MNIT Innovation and Incubation Centre
A/c Number: 676801700527
Bank Name: ICICI BANK, MNIT Branch
IFSC Code: ICIC0006768