

MNIT INNOVATION AND INCUBATION CENTRE

announces

SUMMER INTERNSHIP PROGRAM (SIP-2022)



Internships Offered in the following domains:

- **Unmanned Aerial Vehicle (UAV)**

in Partnership with
Zerogravity Aero Systems Pvt. Ltd.
(www.zerogravityaerosystems.com)

- **Digital Marketing Interventions (DMI)**

in Partnership with
Polysol Infotech Pvt. Ltd.
(www.polysolinfotech.com)

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

in Partnership with
Svaarogyam Medical Devices Pvt. Ltd.

- **Design & Development of Electric Vehicle (DDEV)**

in Partnership with
Rishi Agastya Technologies Pvt. Ltd.



Last Date of Registration: 27th May, 2022

Date of Commencement: 02nd June, 2022

Duration of Program: 6/7 Weeks as applicable



Fee Details:

Applicable course fee can be paid either through
Demand Draft drawn in favour of
"Coordinator, MNIT Innovation And Incubation Centre",
payable at Jaipur

or through 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

Contact

Mr. Ashok Sharma : 9549657369
Supdt., MIIC Jaipur

For Details and SIP Registration view 'Upcoming Events'
on Website **miic.mnit.ac.in**

miic.mnit.ac.in | miic@mnit.ac.in

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 Construction • 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 Aeromodelling Competition

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

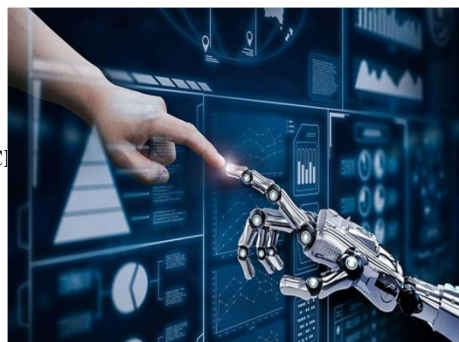
Week 5: Graphic Designing & Website Development using C

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.

CHIEF PATRON:
Prof. Narayana Prasad Padhy
(Director, MNIT Jaipur)

PATRON:
Prof. Jyotirmay Mathur, Secretary,
MNIT Innovation and Incubation Centre , MNIT, Jaipur

COORDINATORS:
Dr. Monica Sharma, MIIC
Dr. Amar Patnaik, MIIC
Dr. Sanjay Gaur, Manager MIIC

COMMUNICATE TO:
Mr. Ashok Sharma, Superintendent, MIIC MNIT Campus,
Jaipur
Mobile: 9549657369
Email: miic@mnit.ac.in Website: www.miic.mnit.ac.in

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