

“SIP-2021”

**MNIT Innovation and Incubation Centre (MIIC) Jaipur
(Rajasthan)-302017**

Full Name:

Present Course/Position:

Institute/organization:

Address of Correspondence:

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Pin Code: _____ Mobile:

E.mail:

Select Program: I-UAV ☐ II-DMI ☐

III-ESR ☐ IV-AAI ☐

Training Duration : 45 days ☐ 60 days ☐

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. Udaykumar R Yaragatti
(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. Kanishk Jain
Project Officer, MIIC
MNIT Campus,
Jaipur
Email: miic@mnit.ac.in Website: miic.mnit.ac.in
Mobile: 7568002222

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
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



MNIT INNOVATION AND INCUBATION CENTRE (MIIC)



Announces:

Summer Internship Program (SIP-2021)

- **Unmanned Ariel Vehicle (UAV)**
- **Digital Marketing Solution (DMI)**
- **Embedded System And Robotics (ESR)**
- **Application of Artificial Intelligence (AAI)**



Registration Closes- 10th May 2021
Commencement Date: 17th May, 2021
Program Duration: 45 days / 60 days



**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 has been registered as a society under the Rajasthan Societies Act, 1958. 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-2020

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 6-8 weeks through the summer. Students are allocated self-contained projects by academic supervisors, 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/ projects based and address the fundamental understanding as well as the applications related to specific domains.

COURSE CONTENT

Program-I

Unmanned Ariel Vehicle (UAV)

in Partnership with Zerogravity Aero Systems Pvt. Ltd.

(www.zerogravityaerosystems.com)

Week-1/2: Introduction • Fundamentals of physics • Basic Aeronautics • Air frame structure • Basic electronics • Basic mechanics • Model building techniques • Drones rules and regulation

Week-3/4: Scales • Plan making • Auto CAD • Solid works • Corel draw • 3d Printing • Laser Cutting • Preparation of Flight Electronics

Week-5/6: Hot Wire Cutting • Balsa Building • Wing Construction • Fuselage Construction • Tail/Fin • Model Assembly • Electronics Installation

Week-7/8: Simulator Training • Gliding Training • Circuiting Training • Takeoff Training • Landing Training • Solo Flight

Eligibility: B.Tech./M.Tech Students (Any Semester, Any Stream)

Course Fee: Rs.15000/-.

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

Week 6: Website Development using CMS

Week 7/8: Email, Mobile & E-commerce Marketing

Eligibility: UG/PG Students (Any Stream)

Course Fee: Rs.12000/-

Program-III

Embedded System and Robotics (ESR) in partnership with Hyaku Innovative Technologies Pvt. Ltd. (www.techhyaku.com)

Week 1: Basic Electronics, Introduction to embedded system, Different types of microcontrollers. II. Getting Started with Arduino,

Week 2: Interfacing Sensors(ir sensors, ultrasonic sensors,pir sensors etc) to Arduino, Interfacing 16*2 LCD to Arduino, Communication Protocols : UART,SPI and I2C, Interfacing keypad to Arduino, Interfacing DC motors to Arduino

Week 3: Wired robot, Line following robot autonomous robot, WIFI controlled Robot, 4 DOF Robotic Arm, 6 DOF Robotic Arm, CNC Robot.

Week 4: Overview of IoT and High level, Architecture, Setting up IoT work-flow, Programming with Advanced C / Embedded C, Microcontroller programming using NODE MCU, IoT Protocols: HTTP, MQTT, IoT Cloud Infrastructure, Performance and Security in IoT Android application for IoT.

Week 5: Python Basics, Pandas, NumPy OpenCV.

Eligibility: B.Tech./M.Tech Students (Any Semester, Any Stream)

Course Fee: Rs.12000/-



Program- VI

Application of Artificial Intelligence (AAI) 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

Eligibility: B.Tech./M.Tech Students (Any Semester, Any Stream)

Course Fee: Rs.12000/-