माधव प्रौद्योगिकी एवं विज्ञान संस्थान, ग्वालियर (म.प्र.), भारत
MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR (M.P.), INDIA
Deemed to be University
(Declared under Distinct Category by Ministry of Education, Government of India)
NAAC ACCREDITED WITH A++ GRADE

Training of Faculty members in Collaboration with Uniconvergence Technologies Pvt. Ltd, Noida at Centre for IoT

The Centre for IoT has developed centre of excellence for IoT in collaboration with *Uniconvergence Technologies Pvt. Ltd, Noida* and trainers from company has successfully conducted **eight day training** program for the faculty members during 29/05/2024 to 05/06/2024.

Total Faculty Trained: 08

S.No.	Date	Topic
1.	**29.05.2024 (Online)**	• Introduction to Arduino • Installation and library installation • Selecting board and Port selection serial monitor and plotter • Tinker cad hands-on • Installation of Node MCU on Arduino board • Node MCU architecture • Installation of Esp32 • esp32 architecture • RPI Theory and installation of Rpi OS
2.	**30.05.2024 (Online)**	• Introduction to ARM Processor and Architecture • Installation of STM32cube mx and keil • Introduction to IOT Cloud • MQTT and HTTP • Installation of node red • Installation of node-red-dashboard and plates
3.	**31.05.2024 (Offline)**	• LpWAN / LoRaWAN Architecture • Edge AI and its application • Nvidia jetson/Google coral/TPU/GPU/VPU
4.	**01.06.2024 (Offline)**	**[LoRaduino Board]** • Led blink • Led control using button • Show data of temperature and humidity on 16x2 display • Home automation on connectify
5.	**02.06.2024 (Offline)**	**[Node Mcu Board]** • Show temperature humidity and Ultrasonic on OLED display. • Show temperature humidity and Ultrasonic on thing speak cloud. • MQTT Dashboard building on Node-Red. • Show temperature humidity and Soil Moisture on Node-Red. • Use case Air quality monitoring • Use Hydroponics

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6.	03.06.2024 (Offline)	**[ESP-32 and LoRaduino Board]** • Receive temperature humidity data on LoRaduino and also show on 16x2 display via ESP-32 LoRasender. • Send Temperature humidity data on LoRawan using ESP-32 LoRa. • Send Temperature humidity data using BLE in ESP-32 and receive on NRF Connect Application. • Use case LoRawan Asset Tracking. • Use-case Smart Street Light on LoRawan.
7.	04.06.2024 (Offline)	**GUI Designing of DWIN HMI and its interfacing with ESP-32.** • Real time data show on DWIN HMI Display. • ARM Daughter Board led Blink BSP generate by STM32 CubeMx, Coding and Debugging Using Keil IDE. • Control led using push button on ARM. • Energy monitoring solution. • Smart Domestic Meter on LoRawan
8.	05.06.2024 (Offline)	• Interfacing Ultrasonic Sensor on RPI Kit. • Edge AI Vibration analysis Using Node-Mcu kit. • Industry 4.0, Predictive Maintenance, Smart Irrigation.

Glimpses of Training Session Conducted in Centre for IoT

Glimpses of Training

Gwalior, Madhya Pradesh, India
66J4+J73, Mela Ground, Thatipur, Gwalior, Madhya Pradesh 474011, India
Lat 26.231402°
Long 78.205781°
07/06/24 04:08 PM GMT +05:30

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The IoT Academy
Connecting The Unconnected

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upSkill CAMPUS

Certificate of Participation

This is to certify that

Dr. Bhavna Rathore

from **MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR (M.P.)**
has successfully participated in the

Two weeks faculty Training in **"IoT and Edge AI"** from 29th may onwards.

7th June 2024
Date

UNICONVERGE TECHNOLOGIES PVT LTD
NOIDA

Kaushlendra Singh Sisodia
Chief Mentor, The IoT Academy
Director, Uniconverge Technologies

Ref no: TIA-2024/6/1006

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