For Further Enquiries:
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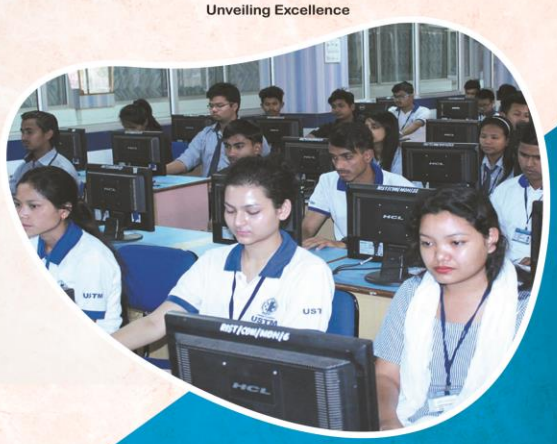
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Certificate course on

Diploma in IoT Technology and Applications

Unveiling Excellence





Campus

Techno City, Khanapara, Kling Road, Baridua
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Department of Computer Science & Electronics
UNIVERSITY OF SCIENCE & TECHNOLOGY MEGHALAYA
Accredited 'A' Grade by NAAC

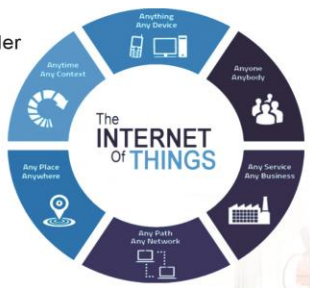
About the Course

IoT (Internet of Things) is a new dimension of IT application in modern society. There is a large demand on IoT applications in Robotics and Home appliances.

This course focuses on the latest microcontrollers with application development, product design and prototyping. Ideally suited for engineering students and graduates with a basic understanding of electronics and microprocessors. The Internet of Things (IOT) is the next wave, world is going to witness. Today we live in an era of connected devices (mobile phones, computers etc.), the future is of connected things (eg: home appliances, vehicles, lamp-posts, personal accessories, your pets, industrial equipments and everything which you use in day-to-day life). Internet of Things is a term given to the attempt of connecting objects to the internet and also to each other - allowing people and objects themselves to analyze data from various sources in real-time and take necessary actions in an intelligent fashion.

Course Modules:

- Introduction to C Programming
- Introduction to Robotics and Micro-controller
- Introduction to Arduino and Programming
- Sensors and their applications
- Shaft Motors, Servo Motors
- Home Automation and Relay systems
- Introduction to IoT
- Introduction to Node MCU
- Introduction to BLYNK
- Introduction to IFTTT
- Introduction to ThingSpeak





Learning Outcomes:

- After the completion of the course, the students will be able design some IOT based prototypes
- Exposure with different families and architectures of Internet of things and tools such as Wireless sensor networks, IoT architecture and protocols etc.
- Expertise required to design any IoT products (H/w or S/w or both) based on any of the above devices.

Projects:

1. Controlling AC Devices using Bluetooth
2. Controlling robotic car using Bluetooth
3. Automatic Traffic signal using RGB LED
4. Security System using PIR Sensor
5. Voice controlled complete home Automation using Bluetooth
6. Internet connectivity with the micro-controller
7. Home Automation using Google Assistance
8. Smart humidity sensor using Thingspeak and IFTTT



Key Benefits

- Fully practical oriented hands on training.
- Covers all basic IOT platforms and all important protocols.
- Lab based on ARDUINO and NODEMCU ESP8266.

Duration : 3 months
Course Fee : INR 6000.00
Class Timing : 4- 6 pm
Eligibility : UG or PG students of any stream with Computer Basic Knowledge
Registration : 1st to 15th March, 2023
Link : https://bit.ly/41gPt7E
Class Start : 20th March, 2023