



MSME-Tool Room, Guwahati

Tool Room & Training Centre, Guwahati



Course Time Table

SUBJECT: Internet of things DURATION: 2 weeks

PER DAY: 3 hrs

OBJECTIVE:

At the end of the Session Participants Should Know:

- * the complete aspects of the IoT technology
- * to code a microcontroller and interfacing of various peripherals
- * building own IoT devices

DAY	CONTENTS
Day 1	*Online software installation guidance with self-introduction and interaction. *Software installation guidance. *Introduction to TRTC, GUWAHATI
Day 2	* Introduction to IOT. * Its hardware and software platforms. * Introduction to ARDUINO IDE and hardware.
Day 3	* LED, Push button, IR sensor interfacing with ARDUINO board.
Day 4	* Serial communication (UART). * Ultrasonic sensor coding and interfacing.
Day 5	* ADC in ARDUINO board. * Analog sensors interfacing.
Day 6	* Interfacing of relay and LCD with ARDUINO board.
Day 7	* Interfacing Transistor and * a motor controlled
Day 8	* Introduction to cloud computing. * Use of THINGSPEAK IOT cloud and programming.

Day 9	* Introduction * Port programming.
Day10	* CIRCUIT design ANALOG & DEGITAL * Practice questions
Day 11	* Design a circuit and connection all peripherals with ARDUINO
Day 12	* ARDUINO IDE programming
Day 13	* Introduction to Node-MCU * Interfacing with 7 segment display
Day 14	* Different peripheral interfacing with ARDUINO UNO
Day 15	* Sample projects * Review, Feed Back Session & Validation.

N.B:

*Classes & Demonstration will be conducted every day for a time period of two hours & doubt clear Session of one hour with all day online/on-call support.

*Hard copy of Certificate will be send to Participant's address by post or it may also be collected from our Centre when situation get normalized.

*Each trainee can avail a free one-week Internship (Practical/Project based) training at our Centre after this pandemic situation get normalized.

You may contact with coordinator for course related further information. Course

Coordinator: SudeepBasak

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