



AMA COMPUTER ACADEMY

IOT



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IoT

Computer and Internet have reached to almost many villages today. This has led to the birth of Internet-based objects around the world, known as the Internet of Things (IoT).

Through the Internet, IoT applications can exchange real-time information with each other without human intervention.



Skills Covered

- Designing Basic IoT applications
- Identifying IoT Sensors like Temperature, humidity and Obstacle detection,
- Simulating IoT Circuits using Tinker CAD,
- Arduino programming
- Sending and receiving IoT Application data from the internet cloud

Tools

- Hardware: Arduino Microcontroller boards, Node MCU, Breadboards
- Sensors: Temperature and Humidity, Ultrasonic Sensor
- Indicators: LED bar, 7 segment LCD displays, Buzzers
- Networking Communications: Bluetooth, Wi-Fi, Internet
- Simulators and software: Tinker CAD, Arduino IDE, Blynk, IoT Apps

IoT Hardware



Arduino UNO



Temperature Sensor



LED



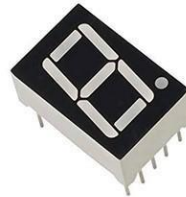
Push Button



Ultrasonic Sensor



NodeMCU



LED Display



Bluetooth Module



Software Tools



❖ Arduino IDE



❖ Blynk App



❖ Tinker CAD

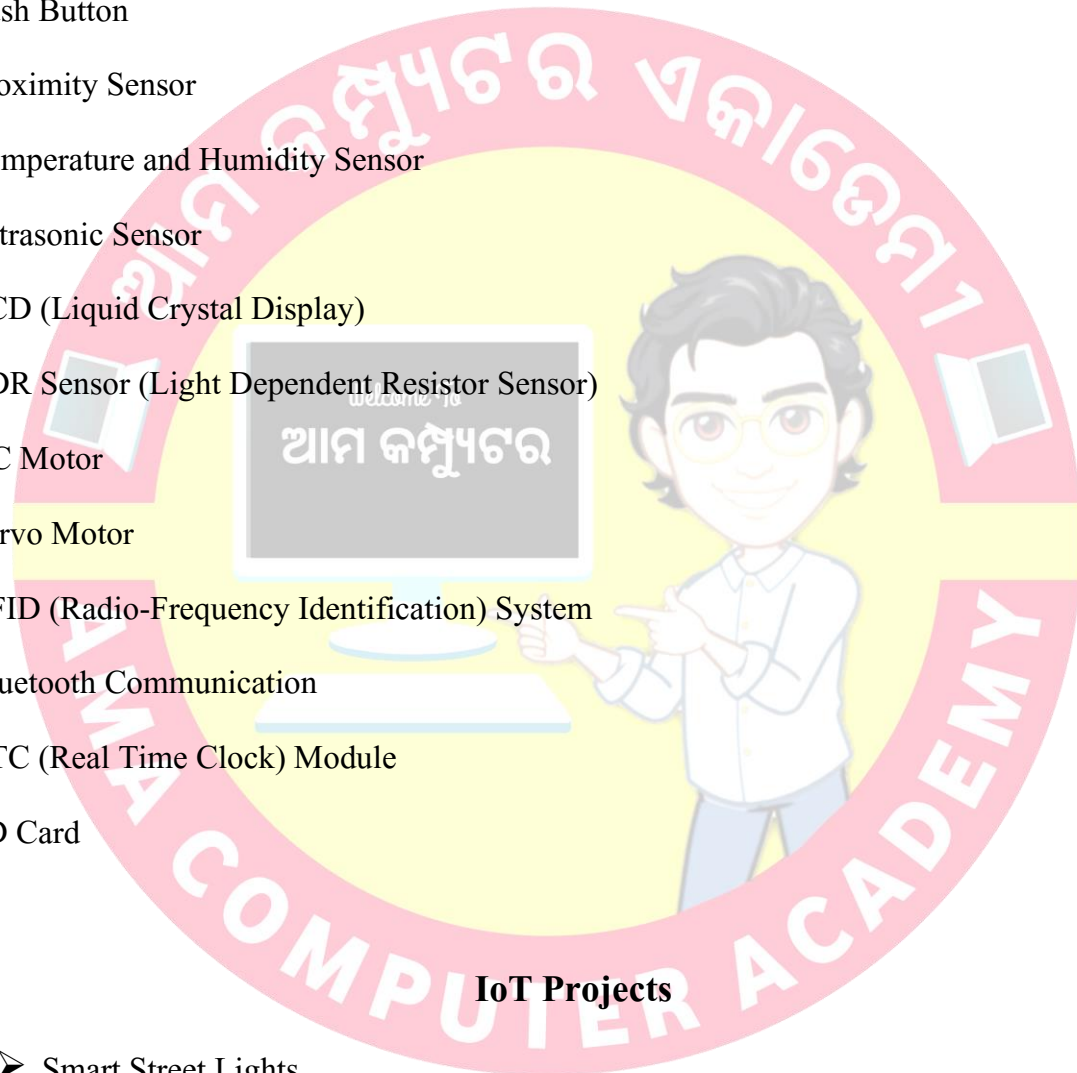
Detailed Syllabus

- Introduction to IOT Technology
- Introduction to Arduino Boards
- Arduino IDE

- Tinker CAD
- Breadboard
- LED Bar (Light-Emitting Diode Bar)
- Piezo Buzzer
- Serial Monitor
- Push Button
- Proximity Sensor
- Temperature and Humidity Sensor
- Ultrasonic Sensor
- LCD (Liquid Crystal Display)
- LDR Sensor (Light Dependent Resistor Sensor)
- DC Motor
- Servo Motor
- RFID (Radio-Frequency Identification) System
- Bluetooth Communication
- RTC (Real Time Clock) Module
- SD Card

IoT Projects

- Smart Street Lights
- Smart Home Automation
- Smart Railway gate
- Pedometer
- Smart Water Tap



- Water Level indicators
- Soil Moisture Detectors
- Access Control System
- School Attendance System
- Visitor Counter



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