

IOT BROCHURE

About Glowlogics

Glowlogics is a **government-verified MSME and Startup India-recognized company offering ISO-certified internships. In partnership with Techfest, IIT Bombay, & E-cell Hyderabad** we are committed to fostering innovation and skill development, providing practical, industry-relevant expectation

Unlock Your Future with IOT!

Glowlogics IoT program is designed for students from all backgrounds who want to understand how smart devices work and communicate. You'll learn how sensors, microcontrollers (like Arduino), and internet-connected systems come together to power technologies like smart homes and wearable devices. With guided, hands-on projects, you'll explore real-world applications of IoT without needing a deep programming background. Perfect for anyone curious about tech and its impact on daily life.

Why IOT?

The **Internet of Things (IoT)** refers to the vast network of devices and systems connected to the internet, allowing them to communicate, collect, and exchange data. IoT is revolutionizing industries across the globe, from smart homes and cities to healthcare, agriculture, and manufacturing.

Curriculum Overview

Module 1: Introduction to IoT What is IoT?

- Definition and scope of IoT
- Evolution of IoT and its impact on industries
- Key components of IoT systems

Applications of IoT

- Smart homes, cities, healthcare, agriculture, and industrial IoT
- IoT in transportation and logistics

IoT Ecosystem Overview

- Devices, networks, platforms, and analytics
- IoT architecture: device, gateway, cloud, and application layers

Module 2: Sensors and Actuators Introduction to Sensors

- Types of sensors: temperature, proximity, pressure, humidity, and more
- Role of sensors in IoT systems
- Sensor interfacing with IoT devices

Actuators

- Different types of actuators and their working
- Use of actuators in controlling devices

Module 3: IoT Networking & Communication Protocols

Connectivity in IoT

- Overview of IoT communication protocols
- Device-to-device, device-to-cloud, device-to-gateway communication

Module 4: IoT Platforms Popular IoT Platforms

- Arduino, Raspberry Pi, and ESP8266
- Commercial platforms: AWS IoT, Google Cloud IoT, Microsoft Azure IoT

IoT Device Management

- Device registration, authentication, and management
- Over-the-air (OTA) updates

Module 5: Data Handling and Cloud Integration Data Collection in IoT

- Data acquisition from IoT devices
- Streaming vs batch data processing

Cloud Computing for IoT

- Role of cloud platforms in IoT
- Storing, processing, and analyzing IoT data in the cloud

Module 6: IoT Data Analytics & AI Data Analytics for IoT

- Introduction to big data and analytics in IoT
- Real-time vs batch analytics for IoT

AI and Machine Learning in IoT

- Predictive maintenance, smart automation, and AI-driven insights
- Machine learning models for IoT applications

Sample Projects

1. Smart Home Automation System
2. IoT-Based Weather Monitoring System
3. Smart Parking System
4. IoT-Enabled Health Monitoring System
5. Smart Irrigation System for Agriculture
6. IoT-Based Smart Street Lighting System

These are sample projects only. Unique capstone projects will be discussed in the live class



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