

## IOT: Internet of Things

### Unit 1:

- Introduction: Definition,
- Characteristics of IOT,
- IOT Conceptual framework,
- IOT Architectural view,
- Physical design of IOT,
- Logical design of IOT,
- Application of IOT.

### Unit 2:

- Machine-to-machine (M2M),
- SDN and NFV for IOT,
- data storage in IOT,
- IOT Cloud Based Services.

### Unit 3:

- Design Principles for Web Connectivity:
- Web Communication Protocols for connected devices,
- Message Communication Protocols for connected devices,
- SOAP, REST, HTTP Restful and Web Sockets.
- Internet Connectivity Principles:
- Internet Connectivity,
- Internet based communication,
- IP addressing in IOT,

- Media Access control.

Unit 4:

- Sensor Technology ,
- Participatory Sensing,
- Industrial IOT and Automotive IOT ,
- Actuator,
- Sensor data Communication Protocols ,
- Radio Frequency Identification Technology,
- Wireless Sensor Network Technology

Unit 5:

- IOT Design methodology:
- Specification -Requirement,
- process, model,
- service,
- functional & operational view.
- IOT Privacy and security solutions,
- Raspberry Pi & arduino devices.
- IOT Case studies: smart city streetlights control & monitoring.

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