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ADVANCE IoT

Contact Hours: 12 Hours

Curriculum Outline

- Wireless code upload
  - In this, you will learn how to upload code wirelessly i.e without connecting any usb cable to esp32. Very efficient and important method for devices deployed in remote or hard to reach locations.
- OTA (Over The Air) Updates.
  - OTA is very same as when our phone is upgraded by manufacturing companies. It is used to add new functionality and fix bugs in already existing or deployed devices.
- Ubidots IoT Platform for data monitoring and device management.
  - Ubidots IoT platform is a great front hand tool for creating, configuring, and monitoring a fleet of IoT devices.
- Project: Generate Email Notification for intruder activity detected by Motion Sensor.
  - In this project, we will send a mail to ourselves whenever there is a motion alert.
- Project: Monitor light intensity and run events remotely accordingly.
  - In this project, we will monitor light intensity using LDR and run events like turn on and off a light.