

DATE: 27 JUNE 2025

DAY: FRIDAY

DAY 6 – Connecting ESP32 to Wi-Fi (Station Mode)

LEARNING OBJECTIVES:-

- Connect ESP32 to a router using Wi-Fi STA mode.
- Understand DHCP-based IP assignment.

Overview:-

Day 6 introduced Wi-Fi station mode where ESP32 joins an existing network. This enabled the device to communicate with cloud platforms and made real-time IoT data transfer possible.

Activities:-

- Programmed `WiFi.begin()` and tested connection.
- Verified assigned IP using serial monitor.

Insights:-

- Understood signal strength effects on stability.
- Learned troubleshooting for Wi-Fi connection failures.