



SNS COLLEGE OF TECHNOLOGY

(An Autonomous Institution)



UNIT-V- Zig Bee, GPS, Wi-Fi

Zig Bee



Zigbee:

- Purpose:** Zigbee is a wireless communication standard designed for short-range, low-power digital radios. It is commonly used in applications such as home automation, industrial control, and sensor networks.
- Characteristics:** Zigbee operates on the IEEE 802.15.4 standard and is characterized by low data rates, low power consumption, and relatively short communication distances. It is suitable for devices that need to communicate wirelessly over short ranges while conserving battery power.



GPS



GPS (Global Positioning System):

- **Purpose:** GPS is a satellite-based navigation system that provides location and time information in all weather conditions anywhere on or near the Earth where there is an unobstructed line of sight to four or more GPS satellites.
- **Characteristics:** GPS receivers use signals from multiple satellites to triangulate and determine the user's precise location. It has widespread applications in navigation, mapping, surveying, and various location-based services.



Wi-Fi



Wi-Fi:

- **Purpose:** Wi-Fi, short for Wireless Fidelity, is a technology that allows devices to wirelessly connect to a local area network (LAN) and the internet. It is commonly used for wireless networking in homes, businesses, and public spaces.
- **Characteristics:** Wi-Fi operates on various IEEE 802.11 standards and provides high data rates over relatively short distances. It is widely used for internet access, file sharing, and connecting devices such as smartphones, laptops, and smart home devices to a network.



THANK YOU