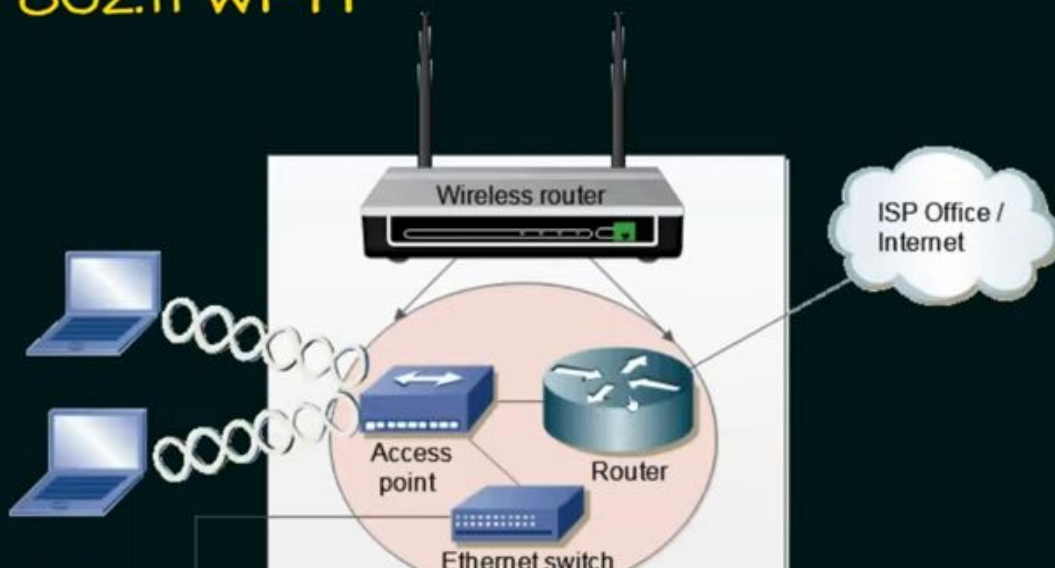**02:56**

IEEE 802.11 Wi-Fi

- ★ Also known as Wireless Fidelity (Wi-Fi).
- ★ Like its Ethernet and token ring siblings, 802.11 is designed for use in a limited geographical area (homes, office buildings, campuses).
- ★ Primary challenge is to mediate access to a shared communication medium – in this case, signals propagating through space.
- ★ 802.11 supports additional features:
  - ○ power management and
  - ○ security mechanisms

NESO ACADEMY

04:20

IEEE 802.11 Wi-Fi

07:20

IEEE 802.11 Wi-Fi

★ 802.11 uses 5 GHz Radio Band (High Frequency) which has 23 overlapping channels rather than the 2.4 GHz frequency band which has only three non-overlapping channels.

Access Method of IEEE 802.11 Wi-Fi: CSMA/CA (Carrier Sense Multiple Access with Collision Avoidance)