



SNS COLLEGE OF ENGINEERING

Kurumbapalayam (Po), Coimbatore – 641 107

An Autonomous Institution

Accredited by NBA – AICTE and Accredited by NAAC – UGC with ‘A’ Grade
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING-IOT Including CS&BCT

COURSE NAME : 19SB402- NETWORKING AND CYBERSECURITY

II YEAR / III SEMESTER

Unit I- NETWORK AND OSI LAYER

Topic : Wireless Transmission



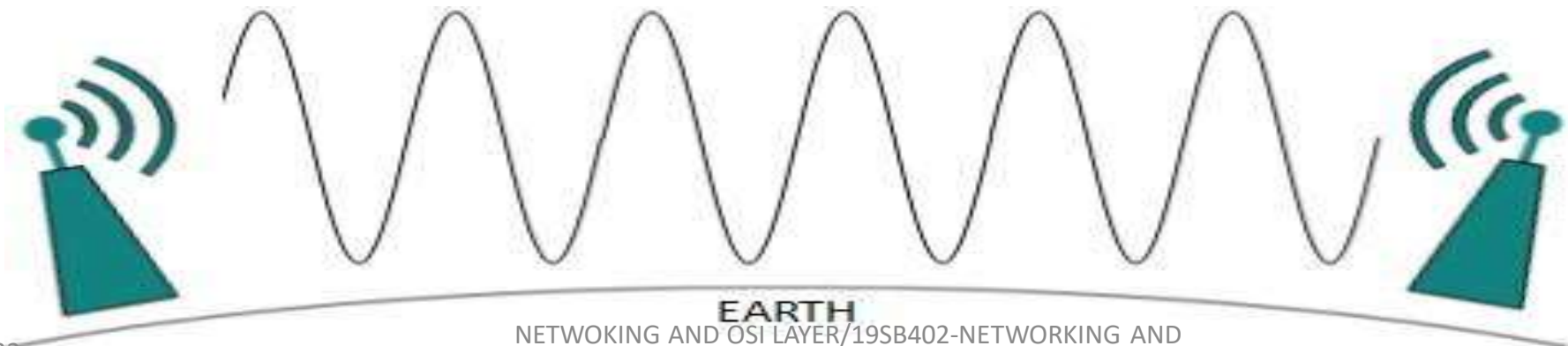
Wireless Transmission

- It is a unguided Media.
- No Physical link, between two devices.
- Wireless Communication (signals).
- signals Sent over via air.
- Antennas (Receive, seat Signal).
- Analog Signal.
- Converter used (for A -> D |D - A).
- Electromagnetic Spectrum.
 - $10 - 10^{-1}$ -> Raid waves.
 - 10^{-3} ->micro waves.
 - 10^{-5} → interred.
 - 10^{-7} -> Ultra violet($10^{-7} - 10^{-9}$)
 - $10^{-9} - 10^{-11}$ -> X rays.
 - $10^{-11} - 10^{-3}$ -> Gamma rays.



Wireless Transmission Cont..

- Radio Wavelength -> 1mm – 100,000km.
- Radio frequency range -> 3Hz to 300GHz.
- Microwave wavelength -> 1mm – 1meter.
- Frequency range -> 300MHz to 300Ghz.
- Infrared Transmission wavelength -> 700nm to 1mm.
- Frequency range -> 300GHz 430THz.





Any Queries



Thank You!