



**SNS COLLEGE OF ENGINEERING**  
**An Autonomous Institution**  
**Coimbatore- 641 107**



Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

**19EC504-ANALOG AND DIGITAL COMMUNICATION**

III YEAR/ V SEMESTER

**UNIT 1 – ANALOG COMMUNICATION**

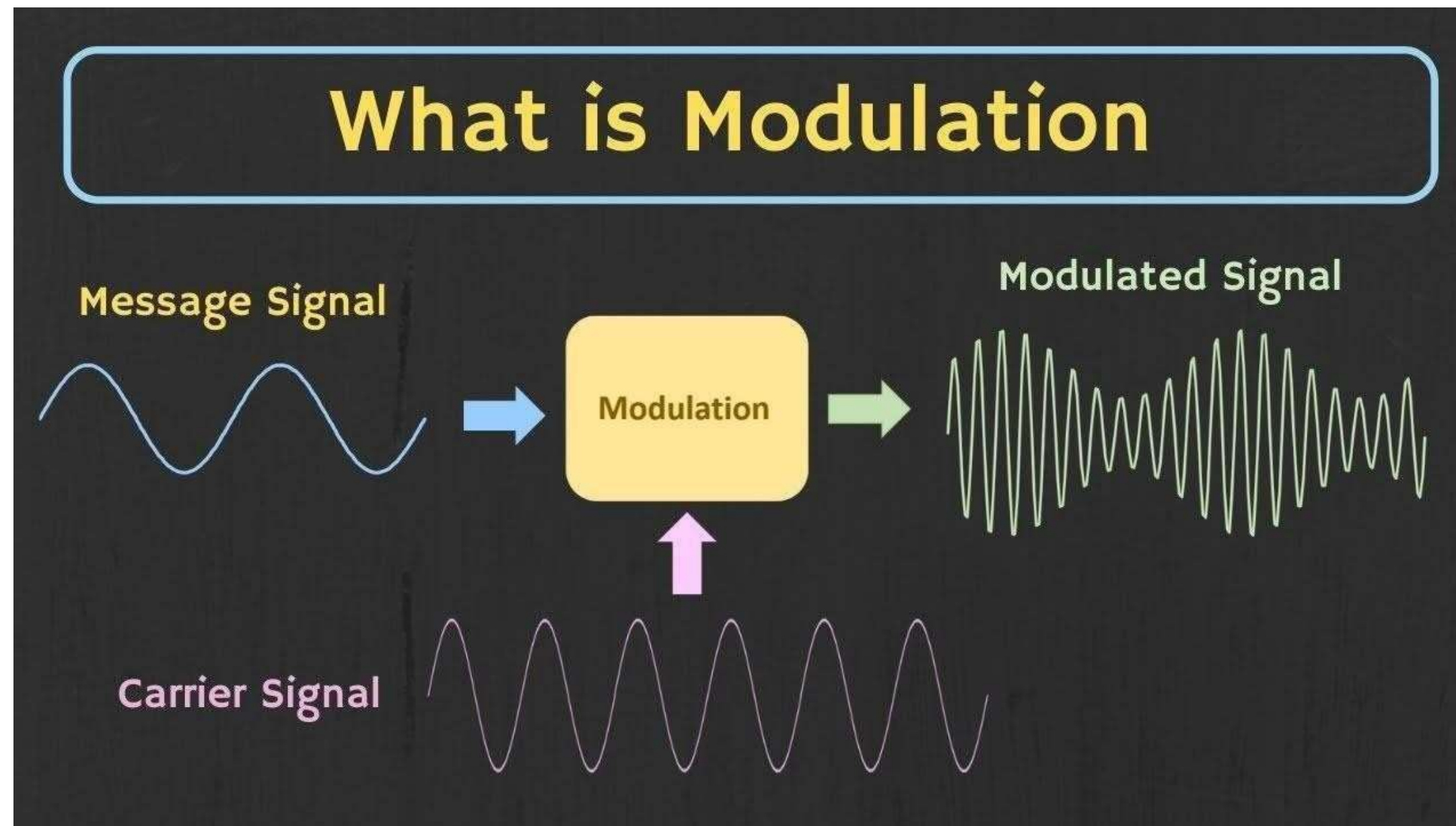
**TOPIC – MODULATION-TYPES-NEED FOR MODULATION**



# MODULATION



Modulation refers to the process of changing the parameters of the carrier signal corresponding to the instantaneous values of the modulating signal.





## NEED FOR MODULATION



- Antenna size reduced
- No chance for signal mixing
- Increases communication range
- Signal Multiplexing occurs
- Adjustments in the bandwidth are allowed
- Reception quality of signal is increased



# TYPES OF MODULATION





**THANK YOU**