



# **SNS COLLEGE OF TECHNOLOGY**

**An Autonomous Institution**  
**Coimbatore-35**



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

## **DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

### **19ECB301-ANALOG AND DIGITAL COMMUNICATION**

III YEAR/ V SEMESTER

### **UNIT 4 – DIGITAL MODULATION TECHNIQUES**

TOPIC – Bandwidth Efficiency



## BANDWIDTH EFFICIENCY



- Spectral efficiency, spectrum efficiency or bandwidth efficiency refers to the information rate that can be transmitted over a given bandwidth in a specific communication system. It is a measure of how efficiently a limited frequency spectrum is utilized
- QAM needs to operate in the linear region of a power amplifier to avoid any signal compression and hence degradation.



**THANK YOU**