



# **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–COMPARISON OF ANALOG COMMUNICATION SYSTEMS**



# COMPARISON OF ANALOG COMMUNICATION SYSTEMS

Parameters	AM	DSBSC	SSB	SSBSC
Variable Characteristics	Amplitude	Amplitude	Amplitude	Amplitude
Sideband Suppression	No	No	One Sideband Completely	One Sideband Completely
Carrier Suppression	No	Complete	Any One Sideband	Complete
Modulating Input	1	1	1	1
Bandwidth	$2f_m$	$2f_m$	$f_m$	$f_m$
Transmission Efficiency	Low	Moderate	Maximum	Maximum
Power	High	Medium	Low	Low
Complexity	Simple	Simple	Complex	Highly Complex
Performance in presence of noise	Low	Average	Average	
Merits	Easy detection	Low power consumption, simple modulation system	Bandwidth efficiency, reduction in distortion	Low power consumption, Better frequency use
Demerits	Poor reception quality,	Complex detection	Complex detection	Complex detection



# THANK YOU