

MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)





Department of Electronics and Communication Engineering Innovative Teaching Methods

	inovative reaching Methods		
Activity Title	Quiz – Group Activity		
Faculty Name/Department	Mr.M. Kamarajan		
Mapped Course Name & Code	Digital Communication & EC8501		
Date	24.7.2022		
Benefitted Students (Year / Sem / Dept)	III/V/ECE		
Topic	PCM and Line Coding		
Description	The students are divided in groups and each group the question is asked and those who raise the answer first to the question is awarded marks if the allotted group doesn't give the answer the question is passed to the next group. The group which answers the question gives extra bonus marks		
Course Outcomes (CO)	Design and implement base band transmission schemes		
Performance Indicator (PI)	1.4.1		
Mail ID (for review)	ece.kamarajan@msajce-edu.in		
Activity Photos			



Topics/ Questions:

1. In polar RZ format for coding, symbol '0' is represented by

- a) Zero voltage b) Negative voltage c) Pulse is transmitted for half the duration
- d) Both b) and c) are correct

2. In a uni-polar RZ format,

- a) The waveform has zero value for symbol '0' b) The waveform has A volts for symbol '1'
- c) The waveform has positive and negative values for '1' and '0' symbol respectively
- d) Both (a) and (b) are correct

3. Polar coding is a technique in which

- a) 1 is transmitted by a positive pulse and 0 is transmitted by negative pulse b) 1 is transmitted by a positive pulse and 0 is transmitted by zero volts
- c) None of the above

4. The polarities in NRZ format use

a) Complete pulse duration b) Half duration c) Both positive as well as negative value d) Each pulse is used for twice the duration

5. The maximum synchronizing capability in coding techniques is present in

- a) Manchester format b) Polar NRZ c) Polar RZ d) Polar quaternary NRZ
- 6. The advantage of using Manchester format of coding is
- a) Power saving b) Polarity sense at the receiver c) Noise immunity d) None of the above

7. Alternate Mark Inversion (AMI) is also known as

a) Pseudo ternary coding b) Manchester coding c) Polar NRZ format d) None of the above

8. For a line code, the transmission bandwidth must be

a) Maximum possible b) As small as possible c) Depends on the signal d) None of the above

9. Alternate Mark Inversion (AMI) is also known as

a) Pseudo ternary coding b) Manchester coding c) Polar NRZ format d) None of the above

10. The advantage of using Manchester format of coding is

a) Power saving b) Polarity sense at the receiver c) Noise immunity d) None of the above

11. The maximum synchronizing capability in coding techniques is present in

a) Manchester format b) Polar NRZ c) Polar RZ d) Polar quaternary NRZ

Marks:

Group Name	Reg No.	Topic	Total
A	311820106001		20
	311820106002	Line Coding,	20
	311820106007	PCM	20
	311820106009	Concepts	20
	311820106305		20
В	311820106003		18
	311820106004	Baseband	18
	311820106005	Data	18
	311820106005	Transmission	18
	311820106006		18
С	311820106010		17
	311820106011	D 4: C	17
	311820106013	Properties of Line codes	17
	311820106014	Line codes	17
	311820106016		17
	311820106017	_	19
D	311820106020	Power	19
	311820106021	Spectral Density of	19
	311820106022	line codes	19
	311820106025	Time codes	19
Е	311820106017		20
	311820106301	Linear	20
	311820106302	Predictive	20
	311820106303	codes	20
	311820106306		20

Outcome:

1. Better understanding the concepts of line codes2. Better understanding of polar and Return to zero codes