XAVIER INSTITUTE OF ENGINEERING

Mahim, Mumbai 400016

Department of Information Technology

(NBA ACCOMMENT)
(Approved by AICTE, Govt. of Maharashtra and Affiliated to University of Mumbai)

Class: SE Semester: III AY:2023-24

Innovation/Creativity of Teaching and learning activity

Class- S.E. (IT)

Course Name - Principle of Communication

Course code- ITC304

Activity - Analyzing the Scenario

Objective- To improve the knowledge of understanding and recollect the subject concepts.

Date of Conduction: 27/07/2023

CO Mapped: CO1 - Interpret and Differentiate analog and digital communication systems

PO Mapped: PO1,2,8,9,10,12

Method - Offline Activity

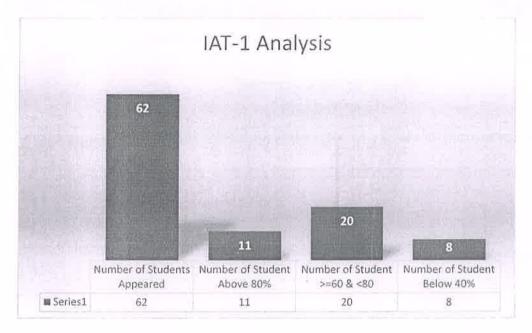
The class assignment of Analysing Puzzle from Module 1 was given to SE-IT students. Module 1 shows the basic differentiation between analog and digital signals. The puzzle-solving efforts of the students were evaluated. Additionally, the student' exam performance has improved.

Outcome-

- 1. Students can gain comprehensive understanding in the field of principle of communication subject
- 2. This activity enhances the technical knowledge and improves the self-learning capability, confidence, critical thinking skills of students.

The performance of the students increased in the Internal Assessment Exam.

IAT-1 Performance:



A

Subject in-charge

Prof. Stella J



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Activity 1

Subject: Principle of Communication

Date: 27/07/2023

Class: SE-IT

Subject In-charge: Prof. Stella J

CO1: Interpret and Differentiate analog and digital communication systems PO: PO1, PO2, PO8, PO9, PO10, PO12

1. Find me

I am in the process of communication and I will always convert the input to electrical signal. Who am I?

Transducer

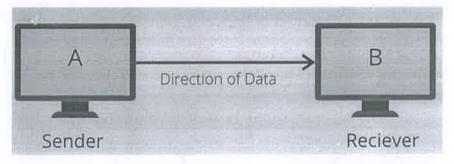
2. Noise in the communication system are, (Find the Odd ones)

Noise Modulation, Distortion, Interference, Crosstalk

3. Who is going to change according to whom in any modulation techniques?

characteristic Caurier will change according to message signal in modulation

4. Identify the below figure,



simplex - one way transmission

5. The other name of Message Signal / Original signal is called as _____?

Baseband signal

6. Find the below Figure and state what it is low frequency signal Volts(V) Volts(V) Time (t) 7. What are the need for Modulation Reducing Antenna of Communication range of 8. Calculate the antenna height for the frequency 250 Ghz $\lambda = \zeta_0 \implies \zeta_0 = \frac{3 \times 10^8}{250 \times 10^{4}} = \frac{30012}{250 \times 10^{4}} = \frac{30012}{250$ 9. I am going to carry the input message signal from Mumbai to London. Who am I? Cavuier - high frequency signal 10. Find all the odd ones in Analog Modulation techniques Amplitude Position, Frequency, Phase, Width