



A.Y.2025-26

SEM-V

CLASS-S.Y.

DIV- B

COURSE: - COMMUNICATION SYSTEMS

COURSE CODE: - EC2207T

NAME OF THE ACTIVITY: Quiz

CONCEPT: This activity was designed to assess the students' understanding of the foundational concepts of Digital Communication Systems. The quiz covered the transition from analog to digital communication, the basic building blocks of a digital system, key performance metrics, and its real-world relevance.

Objective (Goal):

- To evaluate the students' grasp of the definition and core principles of digital communication.
- To test their ability to identify and describe the function of each block in a standard digital communication system.
- To assess their knowledge of the advantages, disadvantages, and applications of digital systems compared to analog systems.
- To check their understanding of fundamental concepts like bandwidth requirements in digital modulation.

Appropriateness (Relevance of Selected Method):

Using a quiz is a highly appropriate method for this assessment. It allows for a quick and efficient evaluation of the students' knowledge on a wide range of topics. The objective format (Multiple Choice Questions) ensures that all students are tested on the same concepts and allows for rapid, unbiased grading, providing immediate feedback on class-wide comprehension.



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Effective Presentation (Implementation Details) :

A quiz was conducted on **January 8, 2025**, for the Second Year students. The quiz consisted of 15 multiple-choice questions designed to cover the breadth of the introductory unit.

Topics covered in the quiz:

1. Introduction to Digital Communication System
2. Block Diagram of Digital Communication System
3. Bandwidth Requirement of Digital Modulation
4. Comparison between Analog and Digital Communication Systems
5. Advantages and Disadvantages of a Digital Communication System
6. Applications of Digital Communication Systems

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QUIZZ Worksheets		Name <input type="text"/>	
Digital Communication Systems Quiz		Class <input type="text"/>	
Total questions: 13		Date <input type="text"/>	
Worksheet time: 7 mins			
Instructor name: Shubhangi Joshi			
<p>1. What is the primary focus of UNIT-I in the course contents?</p> <p>a) Baseband Digital Transmissions b) Spread Spectrum Technique c) Digital Modulation Technique d) Digital Communication System</p> <p>2. Which of the following is NOT a type of digital modulation technique mentioned?</p> <p>a) AM b) ASK c) QAM d) FSK</p> <p>3. What does PCM stand for in digital communication?</p> <p>a) Pulse Continuous Modulation b) Pulse Code Modulation c) Pulse Carrier Modulation d) Pulse Code Modulation</p> <p>4. Which system allows communication in both directions simultaneously?</p> <p>a) Analog System b) Simplex System c) Full Duplex System d) Half Duplex System</p> <p>5. What is the main advantage of digital communication over analog communication?</p> <p>a) Better noise immunity b) Continuous wave modulation c) Simplicity of transmitters d) Lower bandwidth requirement</p> <p>6. Which of the following is a disadvantage of digital communication?</p> <p>a) Easier to implement b) Less reliable than analog c) Requires less bandwidth d) More complex signal processing</p> <p>7. What is the purpose of modulation in communication systems?</p> <p>a) To convert baseband signals to higher frequencies b) To increase the signal strength c) To simplify the receiver design d) To reduce noise</p>			

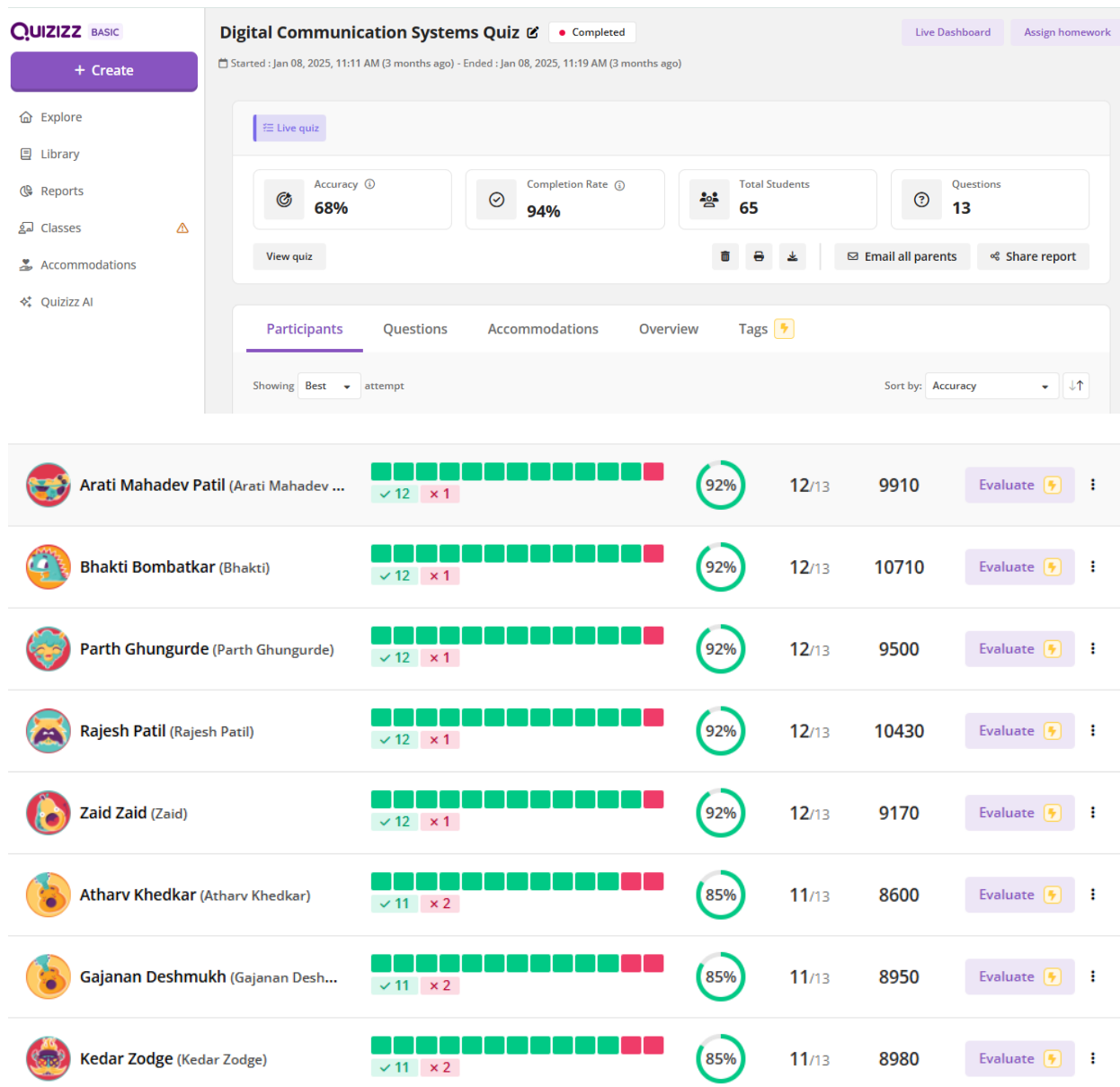
18/05, 12:01 PM		Digital Communication Systems Quiz Quizizz	
<p>8. Which type of modulation varies the amplitude of the carrier signal?</p> <p>a) Amplitude Modulation b) Pulse Width Modulation c) Phase Shift Keying d) Frequency Shift Keying</p> <p>9. Which of the following is a characteristic of baseband transmission?</p> <p>a) Uses modulation techniques b) Requires high frequency carriers c) Transmits original information signals directly d) Is suitable for long-distance communication</p> <p>10. Which of the following is a type of spread spectrum technique?</p> <p>a) Direct Sequence Spread Spectrum b) Frequency Division Multiplexing c) Time Division Multiplexing d) Pulse Code Modulation</p> <p>11. What is the main disadvantage of analog communication?</p> <p>a) Noise affects signal quality b) High bandwidth requirement c) Complexity of receivers d) Limited applications</p> <p>12. Which modulation technique is used for transmitting digital signals?</p> <p>a) Phase Modulation b) Frequency Modulation c) Pulse Code Modulation d) Amplitude Modulation</p> <p>13. What is the role of regenerative repeaters in digital communication?</p> <p>a) To amplify analog signals b) To regenerate digital signals c) To encode information d) To modulate signals</p>			

<https://quizizz.com/join/quiz/677e3b34b1c3aee5b3b4b02>

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Rajarshi Shahu College of Engineering, Pune-33

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BENEFITS/OUTCOME:

The quiz successfully served as a formative assessment tool. The results indicated that a majority of the students have a good understanding of the fundamental concepts. The activity helped reinforce key topics and highlighted specific areas, such as the nuances of bandwidth requirements that may require further clarification in

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subsequent lectures. This feedback is valuable for both students' self-assessment and the instructor's teaching plan.

Name	Value
Game Started On	Wed 08 Jan 2025,11:11 AM
Game Type	Live Quiz
Participants	65
Total Attempts	66
Class Accuracy	68%
Game Ends On	Wed 08 Jan 2025,11:19 AM

***1. Participation Metrics***

- Total Participants: 65
- Target Audience: 76
- Participation Rate: 85.52%
- Platform Used: QUIZZIZ

2. Performance Summary

- Highest Score: 13
- Lowest Score: 03
- Percentage of Participants Scoring Above 70%: 59%



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S.N.	Document Used by	Purpose of Reproducibility & Responsibility
1	BY EHTC Students	This distributed document is highly reproducible, allowing other students and educators to easily replicate it for consistent evaluation. Furthermore, the activity is suitable as a flexible template that can be adapted for different courses or expanded upon for additional content.

Peer Review & Critique:

1. To ensure this activity is reproducible, what specific material (e.g., the lab kit, computer, tools, guidelines, etc.) and what resources would an educator need to have on hand?
2. How, if at all, is this activity or document being adapted to ensure ongoing learning? For example, what kind of questions or tasks could be added to ensure students' growth in problem-solving skills?
3. What specific research questions could be investigated using the data from this task, and what are the key ethical considerations for using student performance data in this way?
4. Beyond a quiz, what other types of assessment could be used to complement this activity, and provide a more complete understanding of student learning in these topics?

Category	Name of the Peer	Organization	Q	U	D	OK	Suggestion/Improvement
Internal	Dr. A. J. Tawale	JSPM'S RSCOE	3	3	4	04	04 - The last 4 rows kept
External	Dr. B. J. Jitape	WIT-INDIA	4	3	4	04	04 - More advance task to be added

Course Coordinator
Dr. Madhavi Jadhav
Dr. B. C. Wagh

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