#### JSPM's

# Rajarshi Shahu College of Engineering, Pune Department of Electronics & Telecommunication Engineering

# INNOVATIONS IN TEACHING AND LEARNING

Subject: Wireless Sensor Networks
Class: T.Y. BTech E&TC

Topic: Crossword on the basics of wireless sensor networks

## NAME OF THE ACTIVITY: Crossword

#### I. Concept:

The activity involves creating a crossword puzzle based on the fundamental concepts of Wireless Sensor Networks (WSNs), including sensor nodes, communication protocols, network architecture, and key terminology. Students solve the crossword by recalling definitions, components, and applications, reinforcing their conceptual understanding.

## II. Objective( Goal):

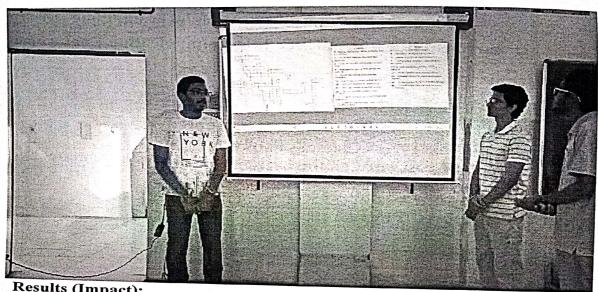
- a. To enhance students' retention of WSN terminology and core concepts.
- b. To encourage active learning through an engaging and interactive method.
- c. To assess students' understanding in a fun and non-traditional way.

## III. Appropriateness (Relevance of Selected Method):

- a. Crossword puzzles promote active recall, which strengthens memory retention.
- b. Suitable for topics with extensive terminology, like WSNs.
- c. Encourages students to think critically about definitions and relationships between concepts.

# IV. Effective Presentation (Implementation Details):

- a. The crossword was prepared using key terms from the WSN syllabus (e.g., nodes, MAC protocols, routing, energy harvesting).
- b. Clues were crafted to be concise but thought-provoking.
- c. Presented in class using printed worksheets or interactive digital platforms.
- d. Students solved individually or in small groups to foster collaboration.



#### V. Results (Impact):

- a. Improved engagement and participation in class.
- b. Strengthened students' understanding and recall of WSN fundamentals.
- c. Encouraged peer discussion and collaborative learning.

## Reproducibility and Reusability by Other Scholars for Further Development VI.

Sr.No	Innovation Used by	Details of User	Purpose of Reproducibility and Reusability
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### PEER REVIEW AND CRITIQUE VII.

Category: Internal/External/Interdepartmental

Question 1.Is this Innovative Teaching and Learning Methodology useful during content delivery?

Question 2. Did this innovation increase student motivation or participation?

Question 3. Will it show improvement in student learning?

Question 4. Suggestions for improvement in future iterations.

Internal Desair  Separate Desair  Separa	Category N	ame of Peer	Organiza tion	Q.1	Q.2	Q.3	Q. 4 Suggestion/Critique
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Course Co-ordinator Mrs.S.S.Godage

Module Co-ordinator Dr. S.A.Bhisikar

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HEAD OF DEPARTMENT

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