



# Vidyavardhini's College of Engineering and Technology

## Department of Artificial Intelligence & Data Science

Academic Year 2024-25 (Even Sem)

Innovation activities by the faculty members in teaching-learning

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Sr. No	Name of Faculty	Course Name / Sem / Course Code	Innovative / Creative activity used	Short Description of the activity
1	Neha Mahesh Raut	Database Management System/ Sem IV/CSC403	Collaborative Learning-Case Study	During Lecture, the students were divided into two groups and they were given time to study topics on joins and views in a group and then had discussion on it.
2	Sweetey Mahesh Patil	Microprocessor/ Sem IV/ CSC405	Mentimeter Quiz	Students were engaged while using live polls, word clouds, quizzes, multiple-choice questions. This is a good revision tool and fun activity. It also made them aware of their knowledge gaps, and they work towards filling those gaps.
3	Raunak Joshi	SBL : Python Programming / Sem IV / CSL405	Interview Preparation using Leetcode.	The commonly asked questions for technical interviews that follow 14 step patterns were hand picked and given for solving in the form of 75 questions. The spreadsheet was given from all levels, ranging from easy, medium to hard.
4	Sejal D'mello	Operating System/Sem IV/ CSC404	Flip Classroom	The students were shared with YouTube videos covering the topic of Disc Scheduling. Solved examples were shared with



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				students. Instead of explaining the method and in the classroom, the students were asked to view the video at home. Problems were solved in the class.
5	Sneha M. Yadav	Analysis of Algorithm	Criss Cross Puzzle	<p>The Criss-Cross Puzzle as an innovative activity aims to enhance concept clarity, promote active learning and improve memory retention through engaging and interactive word-based challenges.</p> <p>Students solve the puzzle by placing the correct terms in a crossword-like grid based on the clues provided.</p>



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1	Rujuta Vartak	Software Engineering and project Management/ sem VI/CSC603	Case Study	During Lecture, the students were divided into two groups and they were given time to study topics on Identify three major risks in this project and suggest mitigation strategies for each in a group and then had discussion on it.
2	Dr. Tatwadarshi P. N.	Machine Learning / Sem VI / CSC604	Mindmap	<p>The following methodology was adopted: Concept Identification: Key ML topics, including supervised, unsupervised, and reinforcement learning, were identified. Mindmap Design: A structured visual representation was created, categorizing ML techniques and algorithms such as regression, classification, clustering, and neural networks. Application Mapping: Real-world use cases from domains like healthcare, finance, and robotics were included to highlight practical implementations. Student Engagement: The Mindmap was presented in the classroom through interactive discussions, and students were encouraged to contribute additional insights.</p> <p>Outcome</p> <p>The implementation of the Machine Learning Mindmap resulted in:</p> <ul style="list-style-type: none"><li>● Improved comprehension</li></ul>



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				<p>and organization of ML concepts.</p> <ul style="list-style-type: none"><li>● Increased student engagement and participation.</li><li>● Enhanced ability to relate ML algorithms to real-world applications.</li><li>● Development of critical thinking skills through structured visualization.</li></ul>
3	Bhavika Milind Gharat	Data Analytics and Visualization	case study	During Lecture, the students were divided into two groups and they were given time to study topics on GINA for each in a group and then had discussion on it.
4	Sejal D'mello	Cloud Computing	Interview Preparation.	The commonly asked questions for technical interviews that were given for solving in the form of questions. The spreadsheet was given from all levels, ranging from easy, medium to hard.
5	Sneha M. Yadav	Distributed Computing	Differentiated Assignment on the Network File System.	<ul style="list-style-type: none"><li>· Differentiated assignments are implemented by designing an open-ended task aligned with course outcomes, allowing students to choose different topics, formats, or perspectives. A common rubric is used to assess creativity, understanding, and application. This method supports personalized learning, encourages critical thinking.</li><li>· After the completion of Module</li></ul>



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				6: Distributed File Systems, all the students were asked to write an assignment based on question which requires a document submission on any one type of file system including features, architecture and examples.
6	Kshitija Gharat	Cryptography and System Security	Article writing	All the students were given different topics from the syllabus at the beginning of the semester. They were required to study and research about the topic. Finally, they were required to write an original article on the topic, plagiarism checking was conducted to make sure that the article is original.



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1	Dr. Tatwadarshi P. N.	Advanced AI / Sem VIII / CSC801	Flipped Classroom	<p>A flipped classroom is an instructional strategy and a type of blended learning, which aims to increase student engagement and learning by having student's complete readings at their home and work on live problem-solving during class time</p> <ol style="list-style-type: none"><li>1. Two YouTube videos and PPTs covering the topic of Ensemble Learning techniques: Bagging and Boosting were shared with the students.</li><li>2. Instead of explaining the details in the classroom, the students were asked to watch the videos and study the PPT given at home.</li></ol> <p>Examples were taken in the class and questions on the topic were asked in the class to assess their understanding</p>
2	Bhavika Milind Gharat	Reinforcement Learning	Case Study	<p>During Lecture, the students were divided into two groups and they were given time to study topics on Robot application in Medical for each in a group and then had discussion on it.</p>



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3	Sejal D'mello	Project Management	Mentimeter Quiz	In this activity, Students were engaged while using quizzes on various topics , multiple choice questions
4	Kshitija Gharat	Recommendation Systems	Case Study	<p>A lecture session was conducted introducing the challenges and solutions in recommendation systems through a real-world case of an e-commerce platform.</p> <p>A case-based assignment was provided where students had to address specific questions focused on recommendation strategies, technical implementation, and ethical considerations.</p> <p>Students were required to analyze the scenario, apply theoretical RS concepts, and provide reasoned answers with real-world applicability.</p>