Vidyavardhini's College of Engineering and Technology

Department of Artificial Intelligence & Data Science

Academic Year 2024-25 (Odd Sem)
Innovation activities by the faculty members in teaching-learning

SE

Sr. No .	Name of Faculty	Course Name / Sem / Course Code	Innovative / Creative activity used	Short Description of the activity
1	Neha Mahesh Raut	SBLC-JAVA/ sem III/	Collaborative Learning	In this activity, Students are making groups and solving given problems in Data Structure. In this they are discussing problems among them and then some students are asked to share the solution of problems with other students.The activity encouraged participation of students. Students were able to learn different problems efficiently.
2	Rujuta Vartak	Computer Graphics/sem III/CSC305	Crossword Puzzle	The students will be given with a crossword puzzle of 7 questions which was draw on board. They have to think and provide the answers in a paper. The activity was conducted in Classroom for duration of 15 minutes. The answers for the wrong questions were discussed at the end of the class to make them to know the answer to all the questions
3	Sweety Patil	Data Structure/sem III/CSC303	1) Crossword Puzzle	The students will be given with a crossword puzzle of 10 questions which was draw on board. They have to think and provide the answers in a paper. The activity was conducted in Classroom for duration of 15 minutes. The answers for the wrong questions

			2) Virtual Lab	were discussed at the end of the class to make them to know the answer to all the questions Students access the online platform or software where virtual experiments are available. The virtual lab prepares a simulated environment with the necessary tools, materials, and equipment for the experiment. Students follow step-by-step instructions to perform the experiment, adjusting variables and using digital tools as required.
4	Sneha M. Yadav	Object Oriented Programming in JAVA Lab	Infosys Springboard Certification	
5	Bhavika Milind Gharat	Discrete Structure and Graph Theory	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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TE

Sr. No .	Name of Faculty	Course Name / Sem / Course Code	Innovative / Creative activity used	Short Description of the activity
1.	Neha Mahesh Raut	Data warehousing and mining/ Sem V/CSC504	Jeopardy Game	Students were asked to prepare data warehousing, pre-processing and classification topics, groups were formed and the jeopardy game was played wherein they had to answer questions with different value points in order to win
			Article writing	Throughout the semester, each student was assigned a distinct topic from the syllabus to delve into. Their task was to thoroughly investigate and research the assigned topic. Subsequently, they were tasked with composing an authentic article based on their findings. To ensure the integrity of the work, plagiarism detection measures were implemented to verify the originality of each article. It was considered in the final file submission.
2	Rujuta Vartak	Artificial Intelligence/CSC503	Library Assignment	Student were taken to the library, Assignment questions were discussed with the students and Students were informed to issue reference books related to the given topic then Students gathered the information and completed their assignment questions.

3	Dr. Tatwadarshi P. N.	Artificial Intelligence / CSC503	AI MindMap	The mindmap was designed to illustrate the following concepts: **Artificial Intelligence (AI):** Highlighting its broader applications, including Natural Language Processing (NLP), robotics, and expert systems. **Machine Learning (ML):** Explaining its three primary types: Supervised Learning, Unsupervised Learning, and Reinforcement Learning. **Key Algorithms:** Classifying algorithms under each type of learning, such as Decision Trees, Support Vector Machines (SVMs), Clustering, and Neural Networks. **Applications:** Providing examples of real-world applications for each category, such as facial recognition for supervised learning and market segmentation for unsupervised learning. The mindmap was presented to students during the class, where each node was elaborated in detail. Concepts were explained step by step, starting from AI's core principles, moving on to the branches of ML, and diving into each algorithm with examples. The mindmap format was chosen to visually reinforce how concepts are connected, aiding students in making sense of the subject matter in a holistic manner.
4	Raunak Joshi	Statistics for Artificial Intelligence and Data Science / Sem V / CSDLO5011	Crossword Puzzle	The crossword puzzle was designed using critical topics and terms from the CSDLO5011 curriculum. The clues were created to reflect the important concepts taught in class, including: Non-Parametric methods like **ANOVA** and **Hypothesis**. The students were asked to solve the puzzle individually as part of a class activity. They

				were given a set of across and down clues that correspond to specific concepts covered during the SAIDS module. The puzzle served as a revision tool to assess students' grasp of the content while offering a creative break from traditional quizzes or tests.

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BE

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1	Sweety Patil	MIS/sem VII/ILO7013	Case Study	Case studies are an instructional method (not a theory) that refers to assigned scenarios based on situations in which students observe, analyze, record, implement, conclude, summarize, or recommend. Case studies were conducted on process models and students should analyse the scenarios, select an appropriate process model for Information system and justify.
2	Dr. Tatwadarshi P. N.	Deep Learning / Sem VII / CSC701	Crossword Puzzle	The crossword puzzle was designed using critical topics and terms from the Deep Learning curriculum. The clues were created to reflect the important concepts taught in class, including: Optimization methods like **RMSprop** and **Adam**, Key neural network layers such as **Pooling** in Convolutional Neural Networks (CNNs), Functions like **Softmax** and activation functions such as **ReLU**, Algorithms such as **Backpropagation** for error correction, Regularization techniques like **Dropout**, Important architectures like **Transformers** and **Recurrent Neural Networks (RNNs)**. The students were asked to solve the puzzle individually as part of a class activity. They were given a set of across and down clues that correspond to specific concepts covered during the Deep Learning module. The puzzle served as a revision tool to assess students' grasp of the content while offering a creative break from traditional quizzes or tests.

3	Raunak Joshi	Natural Language Processing / Sem VII / CSDO7011	Crossword Puzzle	The crossword puzzle was designed using critical topics and terms from the CSDO7011 curriculum. The clues were created to reflect the important concepts taught in class, including: Grammar methods like **Ambiguity** and **Discourse Processing**. The students were asked to solve the puzzle individually as part of a class activity. They were given a set of across and down clues that correspond to specific concepts covered during the NLP module. The puzzle served as a revision tool to assess students' grasp of the content while offering a creative break from traditional quizzes or tests.
4	Bhavika Milind Gharat	Big Data Analytics	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.