

AMRUTVAHINI COLLEGE OF ENGINEERING, SANGAMNER
DEPARTMENT INFORMATION TECHNOLOGY

Academic Year: 2024-2025, Semester-II

Name of Course: DBMS(214452)

Class: SE-IT

List of innovative methods used in Teaching and Learning

Sr.No	Innovations by Faculties
1	Pedagogical in classrooms
	▪ Real time examples. ▪ PPT ▪ Simulations ▪ Brainstorming. ▪ Videos ▪ Interactive: Ques-Ans sessions ▪ Flipped Classroom
2	Collaborative learning
	Interactive Simulations: Using tools like SQL Simulator or DBSim to create interactive environments where students can practice SQL queries and database operations in a simulated real-world scenario. Virtual Labs: Providing students with access to virtual lab environments where they can set up, configure, and manage databases without needing physical hardware. Gamification: Incorporating game elements such as leaderboards, badges, and challenges to make learning DBMS concepts more engaging and motivating. Project-Based Learning (PBL): Assigning real-world projects that require students to design, implement, and manage a database system, fostering practical skills and teamwork
3	ICT Based Learning
	Use tools like Google Docs, Microsoft Teams, and Slack to facilitate group projects and collaborative learning. Use platforms like Kahoot!, Quizlet, and Socrative to create interactive quizzes and assessments that provide immediate feedback.
4	Project Based Learning and On-Site Learning
	Case Studies: Using real-world case studies to illustrate database concepts and challenges, helping students understand the practical applications of DBMS

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