

DEPARTMENT OF CIVIL ENGINEERING – INNOVATIVE TEACHING

S.No.	Name of the Innovations	Description	Courses in which Innovation introduced
1.	Project-Based Learning (PBL)	The department strongly emphasizes experiential learning for engineering students. The curriculum integrates project-based learning where final-year students work on real-world engineering problems. This approach strengthens theoretical understanding while enhancing critical thinking, problem-solving ability, creativity, and teamwork skills	<ul style="list-style-type: none"> • Mini Project • Major Project
2.	Industry Collaborations	To reduce the gap between academic learning and industry requirements, the department has established collaborations with industries in the engineering sector. These collaborations facilitate internships, industrial visits, and expert lectures by industry professionals, enabling students to gain practical exposure and understand real-world engineering applications.	<ul style="list-style-type: none"> • Mini Project • Major Project
3.	Interactive Workshops and Seminars	Periodic workshops and seminars are conducted on emerging technologies, technical advancements, and soft skill development. These sessions allow students to interact with subject experts, clarify doubts, and stay updated with current trends in the engineering field. Online platforms such as MS Teams and Google Meet are also used to conduct sessions and discuss real-world case studies as part of assignments.	<ul style="list-style-type: none"> • Implemented across all courses
4.	Flipped Classroom Approach	The flipped classroom methodology is implemented where students review learning materials prior to class. Classroom time is then utilized for discussions, problem-solving activities, and interactive learning. This approach encourages active participation and improves conceptual understanding.	<ul style="list-style-type: none"> • Implemented across all courses
5.	Peer Teaching and Learning	Peer learning is encouraged through collaborative teaching sessions where students explain concepts and discuss ideas among themselves. This method strengthens subject comprehension while developing leadership, teamwork, and communication skills.	<ul style="list-style-type: none"> • Implemented across all courses

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6.	Research Opportunities	Students are motivated to participate in research activities under the mentorship of faculty members. This initiative promotes innovation, analytical thinking, and research skills, while also preparing students for higher education and research-oriented careers.	<ul style="list-style-type: none"> • Implemented across all courses

The department is committed to continuously improving the teaching–learning process through the adoption of innovative educational practices. By integrating modern pedagogical strategies and experiential learning methods, the Civil Engineering Department aims to enhance academic quality, foster critical thinking, and provide a holistic learning environment for students.