

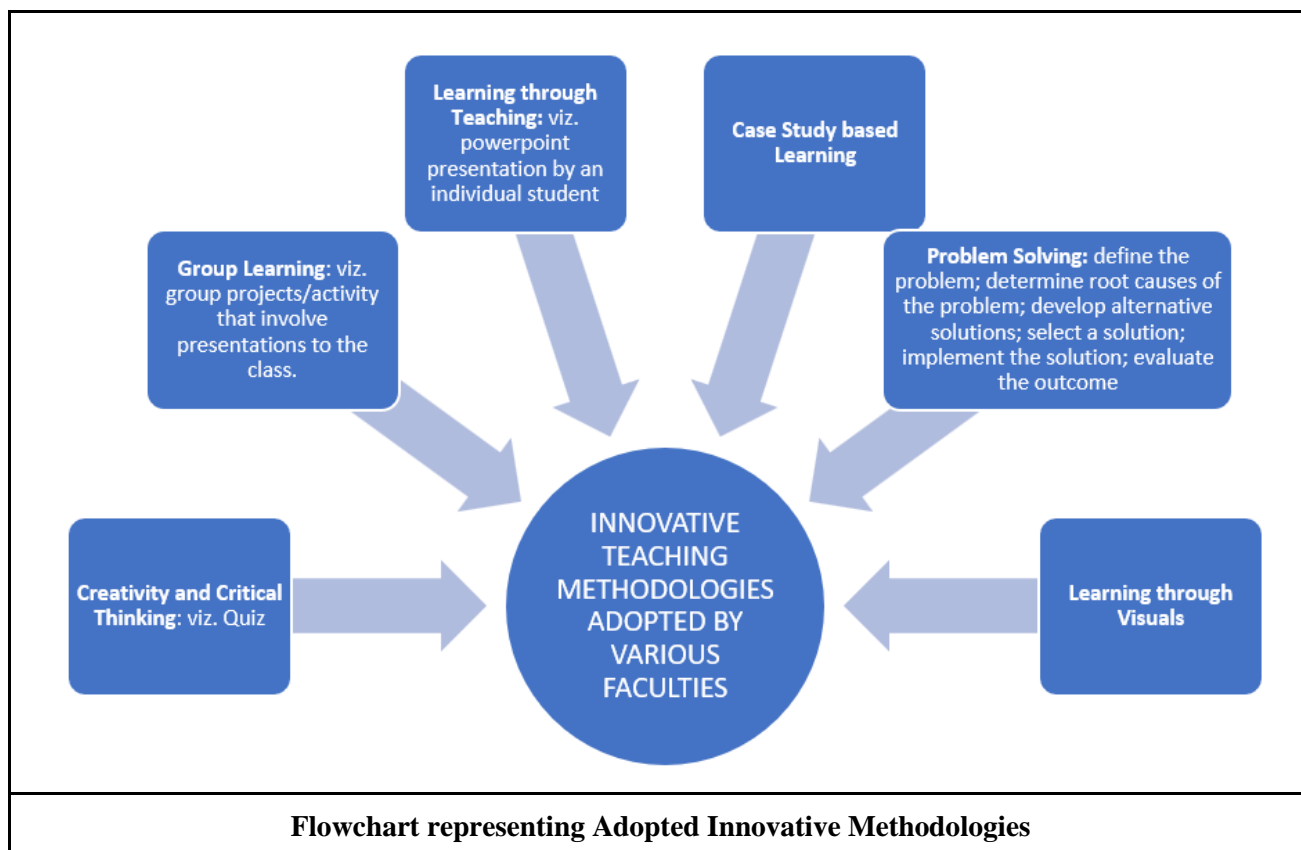


DEPARTMENT OF CIVIL ENGINEERING

Innovations by faculty in teaching and learning

The faculty of the Civil Engineering Department adopts various innovative teaching & learning methodologies to create the best learning environment for the students.

- 1) Creativity and critical thinking eg. quiz
- 2) Group learning eg. group projects/activity that involve presentation to the class
- 3) Learning through teaching eg. powerpoint presentation by an individual student.
- 4) Case study based learning
- 5) Problem solving
- 6) Learning through visuals





Innovative teaching techniques adopted (2022-2023)

Second Year Engineering

Sr No.	Name of Faculty	Subject	Innovative method
1	Prof. Aditya Shastri	SBLIC-I	Expressive drawing elements used as readymade blocks and families, imported in drawing files to make it easy and efficient
2	Prof. Megha Thomas	Mechanics of Solids	1) Mind Mapping/ Flowchart: Students were asked to prepare Mind Maps for complicated topics by focusing on key ideas written down in their own words and they were asked to depict the connections between them. 2) To create interest, task /activity were assigned to students before starting a new topic.

Innovative teaching techniques adopted (2022-2023)

Third Year Engineering

Sr No.	Name of Faculty	Subject	Innovative method
1	Dr. Pooja S Rao	Geotechnical Engineering-I	Mind mapping, Quiz
2	Prof. Raksha Khandare	Theory of Reinforced Concrete Structures	Reading of Engineering Drawing
3	Prof. Umesh Vazurkar	Theory of Reinforced Concrete Structures	Students were asked to draw reinforcement details on class room board
4	Prof. Nithya.K	Geotechnical Engineering-I	Online Quiz



Innovative teaching techniques adopted (2022-2023)

Fourth Year Engineering

Sr. No.	Name of Faculty	Subject	Innovative method
1	Dr. Madhuri Mulay	ILOC: DMMM	Various government reports have been discussed , case studies have been discussed, and quiz was conducted. Discussions on the news in the news paper
2	Prof. Pravin kumar S. Jagtap	QSEV	Activity to real industry problem and to find its solution
3	Prof. Mrunal Joshi	Solid and Hazardous Waste Management	Online Quiz, Open book tests
4	Prof. Pallavi Nehete	Solid and Hazardous Waste Management	Online Quiz
5	Prof. Vishal Uttam Misal	Design and Drawing of Reinforced Concrete Structure	1) students were asked to draw reinforcement details on class room board 2) Students were shown videos related to the topics for better understanding
		Prestressed Concrete	Videos are shown related to topics
6	Prof. Aditya Shastri	AIIP	Showed video of SCADA Systems to explain monitoring of Infrastructure systems



Innovative teaching techniques adopted (2021-2022)

Second Year Engineering

	21-22 (Odd Sem)			21-22 (Even Sem)	
Sr. No.	Name of Faculty	Subject	Innovative method	Subject	Innovative method
1	Dr. Mugdha Agarwadkar	FM-I	interactive teaching method was used, informative videos were shown		
2	Prof. Umesh Vazurkar			Structural Analysis	students were asked to attend polls through google forms at any time during lecture to keep concentration in online lectures
3	Prof. Sana Mulla	APDB	Activity of drawing line plans of their own houses to create interest in topic	BMCT	Online quiz
4	Prof. Aditya Shastri	SBLC-I	Expressive drawing elements used as readymade blocks and families, imported in drawing files to make it easy and efficient		



Innovative teaching techniques adopted (2021-2022)

Third Year Engineering

	21-22 (Odd Sem)			21-22 (Even Sem)	
Sr. No.	Name of Faculty	Subject	Innovative method	Subject	Innovative method
1	Dr. Madhuri Mulay			DLO: BPCR	Recent trends and technologies were discussed in the class through the self made PPTs
2	Dr. Pooja S Rao	GE-I	Mind mapping	GE-II	Mind mapping
3	Prof. Raksha Khandare	TRCS	Models of Connections were made by students	DDSS	Models of Connections were made by students, Reading of Engineering Drawing (Steel structures)
				IOE	Engineering Study of latest offshore projects
4	Prof. Mrunal Joshi			Environmental Engineering	Quiz
5	Prof. Pallavi Nehete	Transportation Engineering	Research paper study assignment given to students	Environmental Engineering	Online Quiz



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6	Prof. Vishal Uttam Misal			Design and Drawing of Steel Structure	Videos are shown related to topics
7	Prof. Umesh Vazurkar	Building Services and Repairs	Students were asked to attend polls through google forms at any time during lecture to keep concentration in online lectures		
8	Prof. Gauri Pande			Water Resources Engineering	students were asked to write a report on Any irrigation project in India to let them understand more precisely about working of reservoir operation and irrigation system
9	Prof. Aditya Shastri			UIP	Discussed Master plans of developed areas, infrastructure facilities and Union budget for better understanding.



Innovative teaching techniques adopted (2021-2022)

Final Year Engineering

	21-22 (Odd Sem)			21-22 (Even Sem)	
Sr. No.	Name of Faculty	Subject	Innovative method	Subject	Innovative method
1	Dr. Madhuri Mulay	ILOC: DMMM	Various government reports have been discussed, case studies have been discussed, videos have been shown and quiz was conducted. Discussions on the news in the news paper		
2	Dr. Mugdha Agarwadkar	ILOC: DMMM	international and Indian DM reports were discussed, and informative you tube videos were shown, quiz was conducted	ILOC: EM	international and Indian EM reports were discussed, and informative videos were shown, they were taught how to write an EM report
3	Dr. Pooja S Rao			FAD	Mind mapping
4	Prof. Pravin kumar S. Jagtap	QSEV	Providing solution to industry problem through lectures	AIIP	Activity to real industry problem and to find its solution
				CM	Activity to industry problem through lectures



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5	Prof. Mrunal Joshi	Solid Waste Management	To enhance the knowledge of the subject , students were asked to collect the article or any news related to innovation or new products which are environmentally friendly related to the subject.	Industrial Waste Treatment	Comparison of foreign country and India related to waste management techniques through discussion, Quiz
6	Prof. Vishal Misal	Prestressed Concrete	Videos are shown related to topics	Bridge Engineering and Design	Videos are shown related to topics
7	Prof. Megha Thomas			Design & Drawing of Reinforced Concrete	Students were shown videos related to the topics for better understanding



Innovative teaching techniques adopted (2020-2021)

Second Year Engineering

	20-21 (Odd Sem)			20-21 (Even Sem)	
Sr. No.	Name of Faculty	Subject	Innovative method	Subject	Innovative method
1	Prof. Vishal Uttam Misal	Mechanics of Structure	Videos Shown Related to topics	Structural Analysis	1) students were asked to attend polls through google forms at any time during lecture to keep concentration in online lectures 2) Students were shown videos related to the topics for better understanding
2	Prof. Nithya. K	Engineering Geology	Online Quiz		
3	Prof. Aditya Shastri	SBLC-I	Expressive drawing elements used as readymade blocks and families, imported in drawing files to make it easy and efficient		



Innovative teaching techniques adopted (2020-2021)

Third Year Engineering

	20-21 (Odd Sem)			20-21 (Even Sem)	
Sr. No.	Name of Faculty	Subject	Innovative method	Subject	Innovative method
1	Dr. Madhuri Mulay	EE1	Relevant paper cuttings from the daily news paper were discussed, quiz was conducted on various topics in the syllabus	EEII	Relevant paper cuttings from the daily news paper were discussed, quiz was conducted
2	Dr. Mugdha Agarwadkar			WRE-I	interactive teaching method was used, informative videos were shown
3	Prof. Raksha Khandare	SA-II	Online Quiz	DDSS	Models of Connections were made by students /Connection Details using Software.
4	Prof. Vishal Uttam Misal	Structural Analysis II	1) students were asked to attend polls through google forms at any time during lecture to keep concentration in online lectures 2) Students were shown videos related to the topics for better understanding		
5	Prof. Aditya Shastri			ACE	Showed walkthrough of various methods to explain new construction methods



Innovative teaching techniques adopted (2020-2021)

Final Year Engineering

	20-21 (Odd Sem)			20-21 (Even Sem)	
Sr. No.	Name of Faculty	Subject	Innovative method	Subject	Innovative method
1	Dr. Madhuri Mulay			ILOC: EM	Case studies and government reports were discussed
2	Dr. Mugdha Agarwadkar	ILOC: DMMM	International and Indian DM reports were discussed, and informative you tube videos were shown, quiz was conducted	ILOC: EM	international and Indian EM reports were discussed, and informative videos were shown
3	Prof. P. S. Jagtap	QSEV	Providing solution to industry problem through lectures	PM	Activity to industry problem through lectures
				CM	Providing solution to industry problem through lectures
4	Prof. Mrunal Joshi	Solid Waste Management	SWM presentation activity	Industrial Waste Treatment	IWT presentation activity