

Department of First Year Engineering						
Academic Year 2024-25						
Innovative Teaching pedagogy						
Sr. No.	Name of the Staff	Innovative Method	Description on Activity	Course/Lab Name	Sem	Class
1	Prof. Mahesh Godse	Mentimeter Quiz	Mentimeter quiz is an interactive teaching tool that engages students through real-time questions and instant feedback. It promotes active learning by allowing anonymous participation via smartphones or devices. It fosters collaboration, inclusivity, and immediate assessment of student comprehension.	Engineering Physics	I	FE
2	Prof. Mahesh Godse	Learning through Mind Map	Learning through Mind Map is an innovative teaching method that visually organizes information. It helps students understand complex concepts by showing relationships between ideas. This technique boosts memory, creativity, and critical thinking skills. Mind mapping makes learning interactive, engaging, and student-centered.	Engineering Physics	I	FE
3	Prof. Mahesh Godse	Peer Learning	Peer Learning is an innovative teaching method where students learn collaboratively by teaching and supporting each other. It encourages active participation, communication, and critical thinking. Learners engage in group discussions, problem-solving, and shared knowledge-building. This approach enhances understanding, confidence, and teamwork skills.	Engineering Physics	II	FE
4	Prof. Mahesh Godse	Mentimeter Quiz	Mentimeter quiz is an interactive teaching tool that engages students through real-time questions and instant feedback. It promotes active learning by allowing anonymous participation via smartphones or devices. It fosters collaboration, inclusivity, and immediate assessment of student comprehension.	Engineering Physics	II	FE
5	Prof. Mahesh Godse	Learning through Mind Map	Learning through Mind Map is an innovative teaching method that visually organizes information. It helps students understand complex concepts by showing relationships between ideas. This technique boosts memory, creativity, and critical thinking skills. Mind mapping makes learning interactive, engaging, and student-centered.	Engineering Physics	II	FE
6	Dr. Shahuraj S Sable	Mentimeter Quiz	The Mentimeter tool quiz is a collaborative educational instrument that captivates pupils by real-time enquiries and immediate response. It facilitates active learning by enabling anonymous involvement through cellphones or devices. It promotes collaboration, inclusivity, and prompt evaluation of student understanding.	Basic Electrical Engineering	I	FE
7	Dr. Shahuraj S Sable	Learning through Mind Map	Learning through Mind Map is an innovative teaching method that visually organizes information. It helps students understand complex concepts by showing relationships between ideas. This technique boosts memory, creativity, and critical thinking skills. Mind mapping makes learning interactive, engaging, and student-centered.	Basic Electrical Engineering	I	FE
8	Dr. Shahuraj S Sable	Learning through Animation	Learning through animation makes complex concepts easier to understand by visualizing them in motion. It enhances engagement and retention by combining visuals with interactive storytelling.	Basic Electrical Engineering	I	FE
9	Dr. Shahuraj S Sable	Pear Learning/ Flip Classroom	A flipped classroom is a teaching approach where students review instructional content at class, and engage in interactive, hands-on activities in class. This method promotes active learning and deeper understanding through discussion and problem-solving.	Basic Electrical Engineering	I	FE
10	Dr. Shahuraj S Sable	NPTEL Video	NPTEL video learning offers high-quality educational content from top Indian institutes, covering a wide range of engineering, science, and humanities subjects. It enables self-paced learning with expert lectures, helping students and professionals enhance their knowledge and skills.	Basic Electrical Engineering	II	FE
11	Dr. Shahuraj S Sable	Learning through Mind Map	Learning through Mind Map is an innovative teaching method that visually organizes information. It helps students understand complex concepts by showing relationships between ideas. This technique boosts memory, creativity, and critical thinking skills. Mind mapping makes learning interactive, engaging, and student-centered.	Basic Electrical Engineering	II	FE
12	Dr. Shahuraj S Sable	Learning through Animation	Learning through animation makes complex concepts easier to understand by visualizing them in motion. It enhances engagement and retention by combining visuals with interactive storytelling.	Basic Electrical Engineering	II	FE
13	Dr. Shahuraj S Sable	Pear Learning/ Flip Classroom	A flipped classroom is a teaching approach where students review instructional content at home, typically through videos, and engage in interactive, hands-on activities in class. This method promotes active learning and deeper understanding through discussion and problem-solving.	Basic Electrical Engineering	II	FE
14	Prof . Arti Bindu	Mentimeter Quiz	Mentimeter quiz is the perfect way to test, engage and entertain your audience in any number of different situations.	Basic Electrical Engineering	I	FE
15	Prof . Arti Bindu	Flip classroom	Flip classroom is an innovative teaching method where students learn collaboratively by teaching and supporting each other. It encourages active participation, communication, and critical thinking. Learners engage in group discussions, problem-solving, and shared knowledge-building. This approach enhances understanding, confidence, and teamwork skills.	Basic Electrical Engineering	II	FE
16	Prof . Arti Bindu	Nptel lectures and videos	students looking to improve their technical knowledge or learn new skills	Basic Electrical Engineering	I	FE
17	Prof . Arti Bindu	Mind Map	Learning through Mind Map is an innovative teaching method that visually organizes information. It helps students understand complex concepts by showing relationships between ideas. This technique boosts memory, creativity, and critical thinking skills. Mind mapping makes learning interactive, engaging, and student-centered.	Basic Electrical Engineering	II	FE
18	Prof.Premkumar V Kolle	Learning through Mind Map	It helps students understand complex concepts in Mathematics by showing relationships between ideas and types. This technique boosts memory, creativity, and critical thinking skills. Mind mapping makes learning interactive, engaging, and student-centered.	Engineering Mathematics-I & II	I&II	FE
19	Prof.Premkumar V Kolle	Group Discussion	Students are more engaged during class time as they are actively participating in discussions, group activities, and problem-solving.	Engineering Mathematics I & II	I&II	FE
20	Dr. Anand Daulatabad	Online Quiz	online quizzes: It offer a dynamic and engaging way to assess understanding, provide instant feedback, and enhance learning experiences.	Engineering Chemistry	I&II	FE
21	Dr. Anand Daulatabad	Flip classroom	By flipping the classroom, one can create a more interactive, student-centered learning environment	Engineering Chemistry	I&II	FE
22	Prof. Aniruddh Dubal	Peer Learning	Peer learning is a cutting-edge approach to education in which students work together to teach and encourage one another. It promotes critical thinking, communication, and active engagement. Students participate in problem-solving, group discussions, and the development of common knowledge. This method improves comprehension, self-assurance, and collaborative abilities.	Engineering Mechanics	I & II	FE
23	Prof. Aniruddh Dubal	NPTEL Lectures	Students seeking to acquire new skills or upgrade their technical expertise	Engineering Mechanics	I & II	FE
24	Prof.Manoj V.Junnarkar	NPTEL/Swayam Lectures	Students and learners seeking to develop new skills, enhance their technical proficiency, pursue advanced competencies, deepen their expertise, and expand or refine their technical skillset.	Engineering Physics	I & II	FE
25	Prof.Manoj V.Junnarkar	Peer Learning/Flip classroom	Flipped classrooms enhance student engagement, support diverse learning styles, improve concept mastery, facilitate blended or hybrid learning, enable differentiated instruction, encourage collaborative learning through teamwork and peer interaction, and maximize the effective use of classroom time.	Engineering Physics	I & II	FE
26	Prof.Manoj V.Junnarkar	Online Quiz	Online quizzes provide an engaging and efficient way to evaluate comprehension, offer real-time feedback, reinforce learning, and keep students actively involved in the learning process.	Engineering Physics	I & II	FE
27	Prof.Manoj V.Junnarkar	Problem Solving Skills_Open Book Test	Open-book tests promote analysis, evaluation, and application of subject matter, helping students focus on understanding concepts rather than rote memorization.	Engineering Physics	I & II	FE
28	Prof.Manoj V.Junnarkar	power point Presentation with animated GIF	An engaging PowerPoint presentation that incorporates animated GIFs to illustrate concepts and capture attention	Engineering Physics	I & II	FE
29	Prof.Manoj V.Junnarkar	IIT Virtual Lab	IIT Virtual Labs offer remote access to laboratory resources, enabling cost-effective, self-paced learning in a safe, interactive environment that reinforces theoretical concepts through engaging simulations.	Engineering Physics	I & II	FE
30	Prof. Shital Ekhande	Flip classroom	By flipping the classroom, one can create a more interactive, student-centered learning environment	Engineering Mathematics-I	I&II	FE
31	Prof. Shital Ekhande	Group Discussion	Students are more engaged during class time as they are actively participating in discussions, group activities, and problem-solving.	Engineering Mathematics-I & II	I	FE
32	Prof. Shital Ekhande	Online Quiz	online quizzes: It offer a dynamic and engaging way to assess understanding, provide instant feedback, and enhance learning experiences.	Engineering Mathematics-I & II	I&II	FE

33	Prof. Ankush S Patil	Flipped Classroom	In this method, students were assigned topics from the "Kinetics of a Particle" unit to study and create PPT presentations. This approach encouraged deeper understanding by having students teach peers through presentations. It promoted active engagement, critical thinking, and public speaking. Students applied theoretical knowledge to real-world problems. This method significantly boosted confidence and ownership of learning.	Engineering Mechanics	I	FE
34	Prof. Ankush S Patil	Animated Videos for Concept Learning	Animated videos on Trusses, Area Moment of Inertia, and Momentum were used to enhance visualization of complex concepts. These videos helped students relate theory to real-life applications, such as structural design and motion analysis. Visual learning improved clarity and engagement, especially for abstract mechanics topics. The method supported active learning and was well-suited to flipped classroom models. It catered to diverse learning styles, improving retention and interest.	Engineering Mechanics	I	FE
35	Prof. Ankush S Patil	MCQ Quiz	A Google Form-based quiz assessed students' grasp of "Kinetics of a Particle" using conceptual MCQs. It tested key areas like Newton's Laws, impulse-momentum, D'Alembert's principle, and work-energy methods. The quiz promoted critical thinking and immediate feedback reinforced learning. It improved problem-solving skills and corrected misconceptions. This approach made assessment interactive and reinforced theoretical understanding through practice.	Engineering Mechanics	II	FE
36	Prof. Ankush S Patil	Mind Map	Mind mapping was used to visually organize core Mechanics topics like Force Systems, Equilibrium, Friction, Kinematics, and Kinetics. It helped students see interconnections among concepts, aiding memory and conceptual clarity. This visual tool supported analytical thinking and structured revision. It encouraged holistic understanding instead of rote memorization. Mind maps were effective in condensing large content into logical, memorable formats.	Engineering Mechanics	II	FE
37	Prof. Nilima R. Bawane	Prepared A3 size booklet on each unit	for additional practice including university questions with some sample answers	Engineering Graphics	I & II	FE
38	Prof. Nilima R. Bawane	1D, 2D, and 3D model	to clear the concept	Engineering Graphics	I & II	FE
39	Prof. Nilima R. Bawane	Also provided self-study E-material	for additional practice including Question bank	Engineering Graphics	I & II	FE
40	Prof. Nilima R. Bawane	Animated PPT	for better understanding each and every step for self study	Engineering Graphics	I & II	FE
41	Prof. Nilima R. Bawane	Google Quiz	to follow the track, that student completed given problem in specified time, generated google quiz and mention them to upload their solution in it	Engineering Graphics	I & II	FE
42	Prof. Nilima R. Bawane	You tube Video	for self study	Engineering Graphics	I & II	FE
43	Prof. Kirti Takale	Flip classroom	By flipping the classroom, one can create a more interactive, student-centered learning environment	Engineering Mathematics-I	I & II	FE
44	Prof. Kirti Takale	Group Discussion	Students are more engaged during class time as they are actively participating in discussions, group activities, and problem-solving.	Engineering Mathematics-I & II	I	FE
45	Prof. Kirti Takale	Online Quiz	online quizzes: It offer a dynamic and engaging way to assess understanding, provide instant feedback, and enhance learning experiences.	Engineering Mathematics-I & II	I & II	FE
46	Bhargavi Dalal	Brainstorming Pedagogy	To generate innovative and diverse ideas for improving students engagement through BrainStorming Session.	Fundamentals of Programming Language	I	FE
47	Bhargavi Dalal	Mind Map	To visually organize and connect ideas around a central concept or problem, enabling students to explore relationships, identify key components, and generate creative solutions through non-linear thinking.	Fundamentals of Programming Language	I	FE
48	Bhargavi Dalal	IIT VLab	To cultivate a dynamic environment that promotes innovation, entrepreneurship, and technology development by supporting students, researchers, and startups in transforming ideas into viable products, services, or ventures.	Fundamentals of Programming Language	I	FE
49	Bhargavi Dalal	Quiz	To assess participants' understanding and retention of key concepts related to fundamental programming in C and Operator and Expression, while encouraging active recall, critical thinking, and engagement in a fun and competitive manner.	Fundamentals of Programming Language	I	FE
50	Bhargavi Dalal	Presentation	To Clearly explain the problem statement and the motivation behind the project and Showcase the design methodology, tools, and technologies used.	FPL/PPS	I & II	FE
51	Prof. Ajay Sonawane	Presentation	Students delivered presentations to showcase their implementation process of programming tasks and mini-projects. The activity focused on explaining the logic used, challenges encountered during development, debugging strategies, and how those challenges were overcome. This helped reinforce theoretical concepts from both Fundamentals of Programming Language and Programming for Problem Solving courses. The activity enhanced students' communication skills, problem-solving abilities, and confidence in presenting technical content effectively.	FPL/PPS	I & II	FE
52	Prof. Ajay Sonawane	Quiz	To evaluate students' knowledge and comprehension of Python programming concepts, a quiz was conducted covering topics such as variables, control structures, functions, arrays, and basic problem-solving logic. This formative assessment method helped gauge students' understanding, identify learning gaps, and reinforce key concepts from the Programming for Problem Solving course. The quiz format encouraged timely revision and active recall of the material.	Programming for Problem solving	II	FE
53	Prof. Ajay Sonawane	Flip Classroom	In this approach, students were assigned subtopics from the Python programming syllabus—such as data types, control structures, functions, and file handling—to study independently and prepare PowerPoint presentations. By teaching their peers through these presentations, students achieved a deeper understanding of core Python concepts. This method fostered active learning, critical thinking, and public speaking skills. Additionally, students applied Python to solve real-world problems, such as basic automation tasks or data processing, which enhanced their confidence and promoted a sense of ownership in their learning journey.	FPL/PPS	I & II	FE
54	Dr. Chhaya Joshi	Mentimeter Quiz	Mentimeter quiz is an interactive teaching tool that engages students through real-time questions and instant feedback. It promotes active learning by allowing anonymous participation via smartphones or devices. It fosters collaboration, inclusivity, and immediate assessment of student comprehension.	Professional Communication Skills	I	FE
55	Dr. Chhaya Joshi	Group Discussion	Students are more engaged during class time as they are actively participating in discussions, group activities, and problem-solving.	Professional Communication Skills	I	FE
56	Dr. Chhaya Joshi	Animated Videos	for better understanding each and every step for self study	Professional Communication Skills	I	FE
57	Dr. Chhaya Joshi	Gamification	Incorporate game elements like points, badges, and challenges into learning.	Professional Communication Skills	I	FE
58	Dr. Chhaya Joshi	Socratic Method / Dialogic Teaching	Uses dialogue and questioning to stimulate critical thinking.	Professional Communication Skills	I	FE
59	Dr. Chhaya Joshi	Health & Social-Emotional Learning (SEL) Integration	Integrating emotional intelligence, empathy, and mental well-being into learning. Builds resilience, self-awareness, and positive relationships through Public Speaking Skills and Presentation Skills.	Professional Communication Skills	I	FE
60	Dr. Chhaya Joshi	Pear Learning/ Flip Classroom	A flipped classroom is a teaching approach where students review instructional content at home, typically through videos, and engage in interactive, hands-on activities in class. This method promotes active learning and deeper understanding through discussion and problem-solving.	Professional Communication Skills	I	FE
61	Dr. Chhaya Joshi	Google Quiz	to follow the track, that student completed given problem in specified time, generated google quiz and mention them to upload their solution in it	Indian Knowledge System	II	FE
62	Dr. Chhaya Joshi	Group Discussion	Students are more engaged during class time as they are actively participating in discussions, group activities, and problem-solving.	Indian Knowledge System	II	FE
63	Dr. Chhaya Joshi	Presentation	PresentationThe objectives of student presentations and oral assessments on sensors and communication systems are to evaluate their understanding of key concepts, including the principles, types, and applications of sensors and communication systems. These sessions aim to enhance communication skills by encouraging students to explain complex topics clearly to an audience.	Indian Knowledge System	II	FE
64	Dr. Chhaya Joshi	Pear Learning/ Flip Classroom	A flipped classroom is a teaching approach where students review instructional content at home, typically through videos, and engage in interactive, hands-on activities in class. This method promotes active learning and deeper understanding through discussion and problem-solving.	Indian Knowledge System	II	FE
65	Dr. Chhaya Joshi	Project-Based Learning	Students work on real-world projects over extended periods. develops problem-solving, collaboration, and critical thinking	Indian Knowledge System	II	FE
66	Dr. Chhaya Joshi	Blended Learning	Combines online digital media with traditional classroom methods. Offers flexibility and accommodates different learning styles.	Indian Knowledge System	II	FE

67	Dr. Chhaya Joshi	Experiential Learning	Learning through reflection on doing (e.g., labs, internships, simulations, Educational Visits).Increases retention and real-world applicability.	Indian Knowledge System	II	FE
68	Dr. Kavita U. Shinde	Quiz	a digital assessment created using Google Forms that tests students' understanding of math concepts.	Engineering Mathematics-II	II	FE
69	Dr. Kavita U. Shinde	Flip classroom /peer learning	Peer learning in math involves students teaching, explaining, or discussing math topics with their classmates.	Engineering Mathematics-I&II	I & II	FE
70	Dr. Kavita U. Shinde	Case study	a teaching approach that uses detailed cases based on real or hypothetical situations to engage learners in discussion, analysis, and decision-making.	Engineering Mathematics-I	I	FE
71	Prof. Ankita Gadekar	Presentation	Students generally prepare a programming presentation on a particular topic—especially useful for teaching in a flipped classroom or engaging students effectively.	FPL/PPS	I & II	FE
72	Prof. Ankita Gadekar	Quiz	programming quiz for beginner-level students,covering basic concepts in programming (language-neutral, but mostly applicable to Python).	FPL/PPS	I & II	FE
73	Prof. Ankita Gadekar	Flip classroom	A flipped classroom is a modern teaching strategy that reverses the traditional learning environment.Students work on coding exercises, projects, or debug problems.	FPL/PPS	I & II	FE
74	Prof. J.S.GORE	Peer Learning	Peer Learning is an innovative teaching method where students learn collaboratively by teaching and supporting each other. It encourages active participation, communication, and critical thinking. Learners engage in group discussions, problem-solving, and shared knowledge-building. This approach enhances understanding, confidence, and teamwork skills.	Basic Electrical Engineering	I & II	FE
75	Prof. J.S.GORE	Group Discussion	Students are more engaged during class time as they are actively participating in discussions, group activities, and problem-solving.	Basic Electrical Engineering	I & II	FE
76	Prof. J.S.GORE	Google Quiz	to follow the track, that student completed given problem in specified time, generated google quiz and mention them to upload their solution in it	Basic Electrical Engineering	I & II	FE
77	Prof. J.S.GORE	Mind Map	Learning through Mind Map is an innovative teaching method that visually organizes information. It helps students understand complex concepts by showing relationships between ideas. This technique boosts memory, creativity, and critical thinking skills. Mind mapping makes learning interactive, engaging, and student-centered.	Basic Electrical Engineering	I & II	FE
78	Prof. J.S.GORE	Animated PPT	for better understanding each and every step for self study	Basic Electrical Engineering	I & II	FE
79	Prof. J.S.GORE	IIT VLab	To cultivate a dynamic environment that promotes innovation, entrepreneurship, and technology development by supporting students,researchers, and startups in transforming ideas into viable products, services, or ventures.	Electrical And Electronic Engg.	I & II	FE
80	Prof. Swati C. Narule	Video Padagogy	Video Padagogy is a concept in which video has created a pedagogy for current learning and teaching practices, disciplines, and environments. It brings together the concepts and practice of video as pedagogy by providing theoretical discussion and practical guidance and recommendations on the use of video in learning and teaching, drawing on a wide range of case studies business education, architectural education, engineering, mathematics, etc.	Basic Electronics Engineering	I	FE
81	Prof. Swati C. Narule	Seminar / Presentation	Presentations are a great way to have students practise all language systems areas (vocabulary, grammar, discourse and phonology) and skills (speaking, reading, writing and listening). They also build confidence, and presenting is a skill that most people will need in the world of work.	Basic Electronics Engineering	I	FE
82	Prof. Swati C. Narule	Online Quiz	An online quiz is an excellent way to evaluate a student's knowledge. It is very effective in the online learning process, as teachers can understand how much a student has understood the concept. With the help of online quizzes, teachers can know the knowledge gap and teach accordingly. It can also work as a revision process, as students can know how much they have learned, and then they can improve their scores by learning more.	Basic Electronics Engineering	II	FE
83	Prof. Swati C. Narule	Flip Classroom	A flipped classroom is an educational approach where traditional teaching methods are reversed. In this model, students first learn the basics of a subject at home through videos or readings, and then engage in practical, hands-on activities during class time.	Basic Electronics Engineering	II	FE
84	Prof. Swati C. Narule	ElectroKit	Electronics model making serves as a powerful and innovative educational tool that integrates practical knowledge of controllers, integrated circuits (ICs), and sensors to bring theoretical concepts to life	Basic Electronics Engineering	II	FE
85	Prof. Tejaswita Kajale	Quiz	Quiz isconsidered as a important way for learning mechanics as they help students identify knowledge gaps, understand concept of mechanics, and improve understanding of complex topics as well as to create interest in the topic as well as in the subject	Engineering Mechanics	I & II	FE
86	Prof. Tejaswita Kajale	Peer learning/ Flip classroom	Peer Learning for Mechanics is a powerful strategy to improve student understanding by encouraging collaboration.Peer learning is an approach where students learn with and from each other which helps to boost the confidence and also to clear the difficult concept which result in creating the interest in the subject	Engineering Mechanics	I & II	FE
87	Prof.Vallabh Shinde	Flipped Classroom with Real-world Applications	Share pre-recorded lectures or NPTEL/YouTube videos on concepts like eigenvalues, diagonalization, etc.Conduct in-class sessions as problem-solving workshops.	Engineering Mathematics	I & II	FE/SE
88	Prof.Vallabh Shinde	Quiz	The quiz promoted critical thinking and immediate feedback reinforced learning. It improved problem-solving skills and corrected misconceptions. This approach made assessment interactive and reinforced theoretical understanding through practice.	Engineering Mathematics	I & II	FE/SE
89	Prof . Anil J. Yadav	ICT/ White Board	Conduct of TLP with integration of diffrent tools like smart board / LCD projector ,internet connectivity ,online quiz for interactive learning	Engineering Mechanics	I & II	FE
90	Prof . Anil J. Yadav	Flipped Class room	Learning Material Access given to students to attend the class with basic knowledge of topic	Engineering Mechanics	I & II	FE
91	Prof . Anil J. Yadav	Nptel Video	Students will be able to access high-quality content delivered by experts in the field, offering a deeper Understanding of academic subjects	Engineering Mechanics	I & II	FE
92	Prof . Anil J. Yadav	Think-Pare-Share	The "think-pair-share" method is a cooperative learning strategy commonly used in classrooms to encourage active participation and deeper understanding of a topic	Engineering Mechanics	I & II	FE
93	Prof. Sujata Jawale	Mentimeter - Quiz and open Forum	The objective of a Mentimeter quiz on BJTs is to assess students' understanding of key concepts like structure, operation modes, and applications of Bipolar Junction Transistors. It helps reinforce critical knowledge while identifying areas where students may need clarification. The quiz creates an interactive and engaging environment, encouraging active participation and critical thinking. By showcasing aggregated responses, it promotes peer learning and collaborative discussions. Additionally, it provides instant feedback to measure learning outcomes and boost students' confidence in applying BJT concepts.	Basic Electronics Engineering	I & II	FE
94	Prof. Sujata Jawale	Presentation	The objectives of student presentations and oral assessments on sensors and communication systems are to evaluate their understanding of key concepts, including the principles, types, and applications of sensors and communication systems. These sessions aim to enhance communication skills by encouraging students to explain complex topics clearly to an audience.	Basic Electronics Engineering	I & II	FE
95	Prof. Sujata Jawale	ElectroKit	Electronics model making serves as a powerful and innovative educational tool that integrates practical knowledge of controllers, integrated circuits (ICs), and sensors to bring theoretical concepts to life	Basic Electronics Engineering	II	FE
96	Prof. Sujata Jawale	Nptel lectures and videos	The objective of employing video pedagogy for teaching transistors is to simplify complex concepts and enhance understanding through visual demonstrations and animations	Basic Electronics Engineering	I & II	FE
97	Prof. Santosh S Dabhole	Peer Learning	Second Year Student conducted session on Orthographic Projections using for F.E. Computer Div C students as part of the Engineering Graphics subject.	Engineering Graphics	I	FE
98	Prof. Santosh S Dabhole	Mind Mapping	Mind mapping tast given to students and intention is to visually organize the theory of projections contents and its practice in simple way.Mind maps were found effective tool in understanding the orthographic cocepts with ease.	Engineering Graphics	I	FE
99	Prof. Santosh S Dabhole	Peer Learning	Second Year Student conducted session on Orthographic Projections using for F.E. Computer Div C students as part of the Engineering Graphics subject.	Engineering Graphics	I	FE
100	Prof. Santosh S Dabhole	Activity Based Learning	Students were given question on the topic of development of surfaces form unit 3. They are asked to cut a paper as a solution of the question given to them and asked to paste it on sheet	Engineering Graphics	II	FE

101	Prof. Vrushali D.Gujar	Learning through Mind Map	It helps students understand complex concepts in Mathematics by showing relationships between ideas and types. This technique boosts memory, creativity, and critical thinking skills. Mind mapping makes learning interactive, engaging, and student-centered.	Engineering Mathematics-I & II	I & II	FE
102	Prof. Vrushali D.Gujar	Google Quiz	The quiz promoted critical thinking and immediate feedback reinforced learning. This approach made assessment interactive and reinforced theoretical understanding through practice.	Engineering Mathematics-I & II	I & II	FE
103	Prof. Vrushali D.Gujar	Peer Learning	Topper in Mathematics I (100/100) Vedika Padwal conducted session on Solid Geometry of Engineering Mathematics II for F.E.Division I students	Engineering Mathematics II	I & II	FE
104	Prof. Vrushali D.Gujar	Problem Solving Skills_Open Book Test	Open Book Test conducted to encourage students to analyze, evaluate and apply knowledge of subject. Students focus on applying knowledge rather than memorizing facts.	Engineering Mathematics II	I & II	FE
105	Prof. Vrushali D.Gujar	Group Discussion	Students are more engaged during class time as they are actively participating in discussions, group activities, and problem-solving.	Engineering Mathematics	I & II	FE
106	Prof. Vrushali D.Gujar	Problem Based Learning	Students research ,analyze and apply knowledge to solve problems.Students work in teams,developing communication and teamwork skills.	Design Thinking Lab	I & II	FE
107	Prof.Abhijeet A. Aiwale	Learning through Animation	Learning through animation makes complex concepts easier to understand by visualizing them in motion.It enhances engagement and retention by combining visuals with interactive storytelling.	Basis Electrical Engineering	I & II	FE
108	Prof.Abhijeet A. Aiwale	Flip Classroom	To Encourage students to review instructional content (videos, readings, etc.) before class at their own pace	Basis Electrical Engineering	I & II	FE
109	Prof.Abhijeet A. Aiwale	Group Discussion	Students are more engaged during class time as they are actively participating in discussions, group activities, and problem-solving.	Basis Electrical Engineering	I & II	FE
110	Prof.Rupesh Kumar Yadav	Learning through Mind Map	It helps students understand complex concepts in Mathematics by showing relationships between ideas and types. This technique boosts memory, creativity, and critical thinking skills. Mind mapping makes learning interactive, engaging, and student-centered.	Engineering Mathematics-I & II	I & II	FE
111	Prof.Rupesh Kumar Yadav	Peer Learning/ Flip Classroom	Peer Learning for Mechanics is a powerful strategy to improve student understanding by encouraging collaboration.Peer learning is an approach where students learn with and from each other	Engineering Mathematics- II	I & II	FE
112	Prof.Rupesh Kumar Yadav	Group Discussion	Students are more engaged during class time as they are actively participating in discussions, group activities, and problem-solving.	Engineering Mathematics I	I & II	FE
113	Prof.Rupesh Kumar Yadav	Seminar / Presentation	Seminar promote critical thinking and analysis of complex topics.Students learns from each other through debates.	Engineering Mathematics I	I & II	FE
114	Prof.Rupesh Kumar Yadav	Problem Solving Skills/ Critical Thinking	Open Book Test conducted to encourage students to develop Critical Thinking skills by analyzing and solving complex problems.Students learn to efficiently use resources to find relevant information.	Engineering Mathematics II	I & II	FE
115	Prof.Rupesh Kumar Yadav	Google Quiz	The quiz promoted critical thinking and immediate feedback reinforced learning. This approach made assessment interactive and reinforced theoretical understanding through practice.	Engineering Mathematics-I & II	I & II	FE
116	Prof. Amol G. Bade	Group Discussions & Debates	Students are effectively engaged during class time as they are actively participating in discussions, debates and various group activities	Professional Communication Skills	I	FE
117	Prof. Amol G. Bade	Language Lab Sessions	This software based method enhance speaking and listening skills of students through Headphones, audio recordings, pronunciation practice etc.	Professional Communication Skills	I	FE
118	Prof. Amol G. Bade	Reading & Listening Comprehension Exercises	This method of teching enhances the receptive skills of the students. This is done effectively through the activities like Listen and draw, summarization etc.This helps improve listening comprehension, attention to detail, and the ability to understand and follow directions.	Professional Communication Skills	I	FE
119	Prof. Amol G. Bade	Peer Learning/ Flip Classroom	A flipped classroom is a teaching approach through which students review instructional content at home, typically through videos, and engage in interactive activities in class. This method promotes active learning and deeper understanding through discussion and problem-solving.	Professional Communication Skills	I	FE
120	Prof. Amol G. Bade	writing and Narrative Techniques/ Public Speaking	This method enhances the logics and critical thinking abilities of students. It also enhances stage daring with speaking skills	Professional Communication Skills	I	FE
121	Prof. Amol G. Bade	Case Study Method	Case study method in communication helps students to Analyze real-world communication breakdowns or success stories.	Professional Communication Skills	I	FE
122	Prof. Amol G. Bade	Task-Based Approach	The task-based method focuses on helping students improve their professional writing skills by doing real and meaningful writing tasks.	Professional Communication Skills	I	FE
123	Prof. Amol G. Bade	Storytelling Pedagogy	Using this method students are told ancient Indian stories, epics, and folk tales (like, Mahabharata, Ramayana) to convey moral, philosophical, and cultural values.	Indian Knowledge System	II	FE
124	Prof. Amol G. Bade	Experiential Learning	Experiential learning means learning by doing and experiencing. In IKS, this involves visiting historical places, temples to see and understand India's rich heritage. Students learn more deeply when they observe, explore, and reflect on real-life examples of Indian knowledge in fields like architecture, medicine, astronomy, and art and culture. This method makes learning practical, memorable, and meaningful.	Indian Knowledge System	II	FE
125	Prof. Amol G. Bade	Project-Based Learning (PBL)	Project-Based Learning in IKS means students work on a topic related to Indian knowledge through a project. For example, They can study the milestones in IKS and prepare a group project report based on research;. This method helps students learn by exploring, working in teams, and solving real-world problems.	Indian Knowledge System	II	FE
126	Prof. Amol G. Bade	Group Discussion	In this method, students discuss important topics given by teacher from IKS together in small groups, sharing ideas and learning from each other. This helps improve their communication skills, teamwork, and deeper knowledge of Indian traditions, science, and culture.	Indian Knowledge System	II	FE
127	Prof.Damayanti Ingale	Quiz	Quiz	Engineering Chemistry	I & II	FE
128	Prof.Damayanti Ingale	White Board	White Board	Engineering Chemistry	I & II	FE
129	Prof.Damayanti Ingale	Flipped Class room/Case Study	Learning Material Access given to students to attend the class with basic knowledge of topic	Engineering Chemistry	I & II	FE
130	Prof.Damayanti Ingale	Nptel Video	Students will be able to access high-quality content delivered by experts in the field, offering a deeper Understanding of academic subjects	Engineering Chemistry	I & II	FE
131	Prof. Pratiksha Tanpure	Learning with virtual lab	The digital laboratory session aimed to provide students with a hands-on understanding of key chemistry concepts, despite the remote learning environment. The focus was on enhancing the students' practical skills in chemical experiments, data analysis, and understanding of engineering chemistry principles	Engineering Chemistry	I	FE
132	Prof. Pratiksha Tanpure	Mentimeter Quiz	Mentimeter quiz is an interactive teaching tool that engages students through real-time questions and instant feedback. Quiz on Water technology is organised with mentimeter. Students quick responses are discussed in class which help students to understand better.	Engineering Chemistry	I	FE
133	Prof. Pratiksha Tanpure	Flipped Class room	To enable students to explore the fundamental principles and real-world applications of nanotechnology through a flipped learning approach that emphasizes critical thinking, collaborative learning, and research-based inquiry	Engineering Chemistry	II	FE
134	Prof. Pratiksha Tanpure	A Quiz Competition- Google Form	The quiz competition was conducted as part of an active learning initiative aimed at enhancing student engagement, promoting healthy academic competition, and reinforcing classroom learning through collaborative and critical thinking strategies. This helps students to understand nanomaterials concept.	Engineering Chemistry	II	FE
135	Prof. Seema Darekar	Presentation	Some important topics were discussed using the presentations.	Programming for Problem solving	II	FE
136	Prof. Seema Darekar	Quiz	Online quiz of students was conducted to check the understanding and preparation of subject	Programming for Problem solving	II	FE
137	Prof. Seema Darekar	Flip classroom	Few topics were distributed among the students to analyse and improve their presentation skills and to boost their stage daring and confidence.	Programming for Problem solving	II	FE
138	Prof. Sagar Deshpande	Connecting to Real life Examples.	Connecting Eng. Graphics with Practical Mechanical engineering. Real life Examples make the subject understanding more comprehensively.	Design Thinking Lab	II	FE
139	Prof. Sagar Deshpande	Making Students effectively aware about using Drawing instruments.	Making Students effectively aware about using Drawing instruments.	Design Thinking Lab	II	FE
140	Prof. Sagar Deshpande	Online Group Discussion.	Online group discussion has created very good impact for the subject - Design Thinking.	Design Thinking Lab	II	FE

141	Prof. Sunita Yewale	Presentation	The objectives of student presentations and oral assessments on sensors and communication systems are to evaluate their understanding of key concepts, including the principles, types, and applications of sensors and communication systems. These sessions aim to enhance communication skills by encouraging students to explain complex topics clearly to an audience.	Basic Electronics Engineering	I & II	FE
142	Prof. Sunita Yewale	ElectroKit	Electronics model making serves as a powerful and innovative educational tool that integrates practical knowledge of controllers, integrated circuits (ICs), and sensors to bring theoretical concepts to life	Basic Electronics Engineering	I & II	FE
143	Prof. Sunita Yewale	Flip Classroom	A flipped classroom is an educational approach where traditional teaching methods are reversed. In this model, students first learn the basics of a subject at home through videos or readings, and then engage in practical, hands-on activities during class time.	Basic Electronics Engineering	II	FE
144	Prof. Sunita Yewale	Nptel lectures and videos	The objective of employing video pedagogy for teaching transistors is to simplify complex concepts and enhance understanding through visual demonstrations and animations	Basic Electronics Engineering	I	FE
145	Prof. Anil Rakshe	Mentimeter Quiz	Mentimeter quiz is an interactive teaching tool that engages students through real-time questions and instant feedback. It promotes active learning by allowing anonymous participation via smartphones or devices. It fosters collaboration, inclusivity, and immediate assessment of student comprehension.	Engineering Physics	I	FE
146	Prof. Anil Rakshe	Stretch, Relax, Focus & Learn	This activity mainly focuses on refreshing the students after previous lecture both physically and mentally. the activity includes stretching body, turning neck slowly, rubbing and clapping hands and meditation for couple of minutes. the outcome of this activity is that students find themselves refreshed and ready for learning the content of next session.	Engineering Physics	I	FE
147	Prof. Anil Rakshe	Mentimeter Quiz	Mentimeter quiz is an interactive teaching tool that engages students through real-time questions and instant feedback. It promotes active learning by allowing anonymous participation via smartphones or devices. It fosters collaboration, inclusivity, and immediate assessment of student comprehension.	Engineering Physics	II	FE
148	Prof. Anil Rakshe	Peer Learning	Peer Learning is an innovative teaching method where students learn collaboratively by teaching and supporting each other. It encourages active participation, communication, and critical thinking. Learners engage in group discussions, problem-solving, and shared knowledge-building. This approach enhances understanding, confidence, and teamwork skills.	Engineering Physics	II	FE
149	Prof. Dipamala Chaudhari	Google Quiz	Online quizzes offer a dynamic and engaging way to assess understanding, provide instant feedback, and enhance learning experiences.	Programming for Problem solving	II	FE
150	Ashwini Utture	Presentation	The objectives of student presentations on the concept of functions – their syntax, declaration, and definition in C. Students will explain the idea of modular programming and how breaking problems into functions makes code more organized and reusable. Students will present a small coding project or problem they solved using python. They will explain the problem statement, logic, flowchart/algorithm, and demonstrate the code execution.	Programming for Problem solving	II	FE