



2.3.1. Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences using ICT tools

At MREM, the faculty is driven to innovate the delivery of lectures using modern and tailored methods. This ensures a more effective transfer of knowledge, leading to improved results. Lessons are formulated in a way that ensures proper presentation to students. The tools, devices, and procedures employed by faculty members have proven to be effective, resulting in better communication and enhanced understanding by students. Some tools are already part of ICT but are adapted to suit the content and target audience.

Innovations by the Faculty in Teaching and Learning:

Traditional Teaching Method: “chalk-and-talk” method and LCD projector transparencies.

This learning perspective is a popular technique, which has been used for decades as an educational strategy in all institutions of learning.

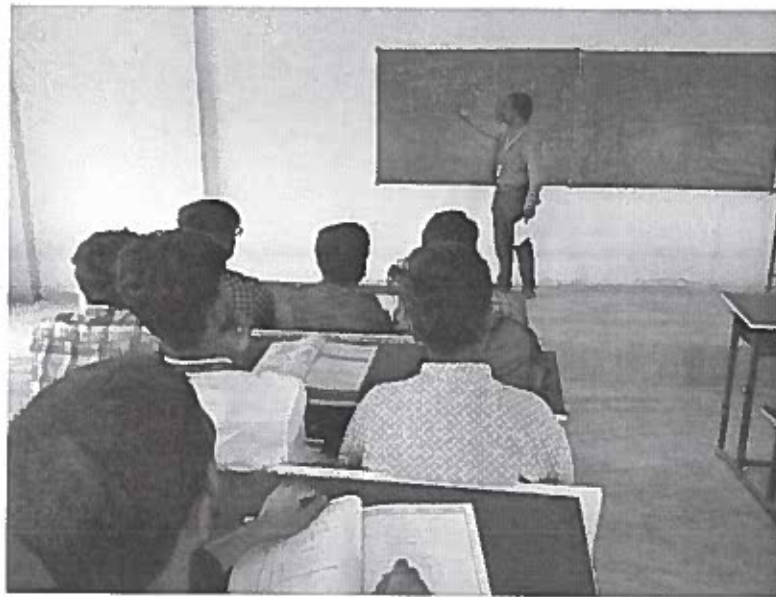



Figure: Chalk-and-talk

The main objective of this innovation process is to **make teaching More Effective.**


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1. **Visualization:** Utilizing visualization to bring academic concepts to life through practical learning experiences, including photos and videos.

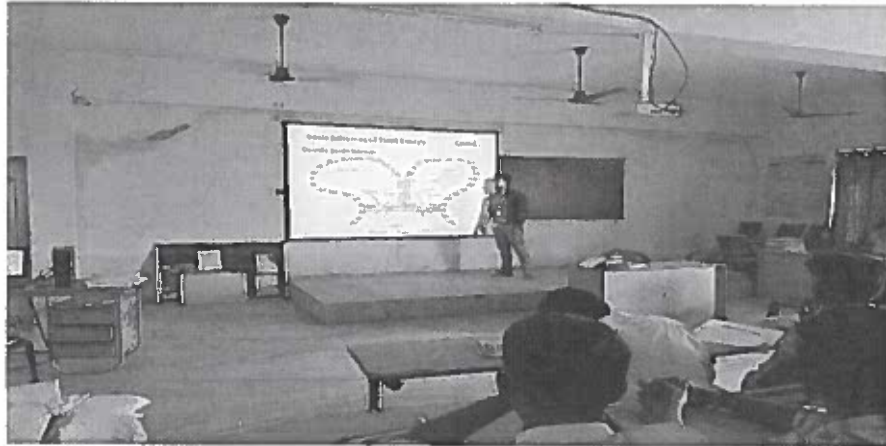


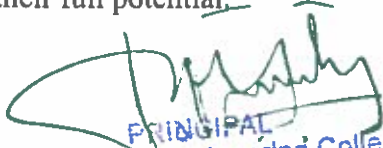
Figure: Visualization: Power System-I, Tidal Energy

2. **Cooperative Learning:** Encouraging cooperative learning among students with varying abilities, promoting group work and knowledge sharing.



Figure : Knowledge Sharing

3. **Inquiry-Based Instruction:** Posting thought-provoking questions to stimulate independent thinking and foster independent learners.
4. **Behaviour Management:** Implementing effective strategies to manage behaviour, ensuring equal opportunities for all students to reach their full potential.


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5. **Professional Development:** Encouraging continuous learning and growth among faculty members.
6. **Retrieving Information:** Encouraging students to retrieve knowledge from various subjects and interconnect it with future topics, for instance, through the use of mind maps.
7. **Test, Quiz, Interaction:** Incorporating quizzes for knowledge retention and self-assessment, providing valuable data on the effectiveness of the learning module.
8. **Multimedia and Online Resources:** Incorporating Multimedia and Digital Assets: Integrate a range of multimedia elements such as videos, animations, interactive simulations, and online platforms to enrich the learning process. Leverage e-books, forums, and educational websites as supplementary resources, offering students further avenues for independent study and research.

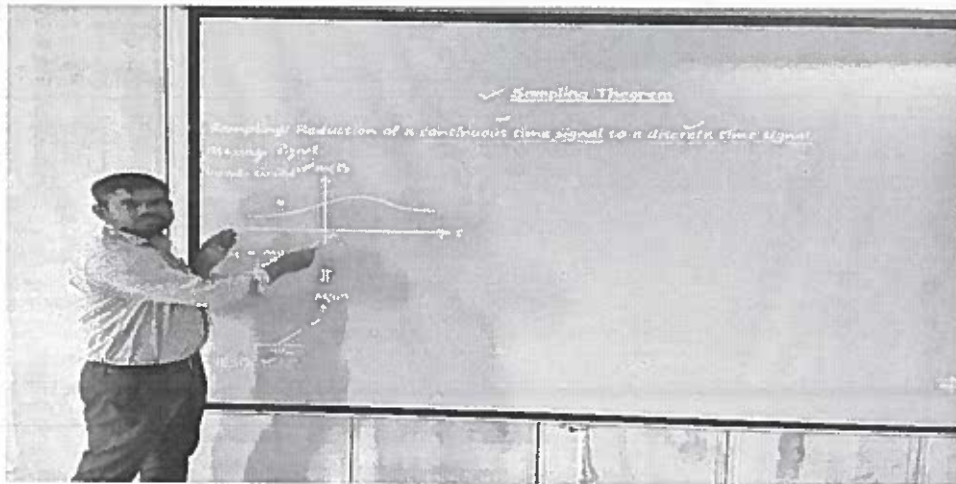


Fig: Learning through visuals (with animations) for DSP

9. **Repeat to Retain:** Offering overviews of previously taught topics to reinforce learning.
10. **Real-World Application:** Linking topics to real-world problems, making learning relevant and practical.


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Figure: Teaching with the Physical Model

11. Higher Blooms Taxonomy Objectives: Creating opportunities for higher-order thinking and problem-solving skills. In developing student learning outcomes, it's crucial to differentiate between broad course goals and specific learning objectives. The former focuses on the content the instructor intends to convey, while the latter emphasizes what students will know or be able to do by the end of the learning experience.

Faculty aims for students to:

- a) **Have Access to Coursework 24/7:** Through the Internet and subject groups, ensuring continuous learning opportunities.
- b) **Embrace Online Learning:** Recognizing the prevalence and effectiveness of online education.
- c) **Maintain a Repository of Materials:** Organizing, managing, and linking course files to enhance learning.
- d) **Participate in Subject Groups:** Encouraging collaborative learning environments.

12. Student-Centric Teaching-Learning Process: The Faculty innovations in teaching and learning encompass the following aspects:


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- a. **Focused Group Study:** Students are organized into specific groups and given particular topics to delve into using resources like library books, the internet, and journals. They then discuss their findings in class, guided by the teacher. The aim is to create a safe space for open discussion, ensuring participants feel comfortable expressing their opinions.



Figure: Sample Group Study Photograph

- b. **Simulation Classes and Virtual Labs:** We utilize e-content, including animations and visuals from platforms like YouTube, to provide a comprehensive understanding of concepts. This approach combines theory, practice, and feedback, allowing students to grasp the practical applications of what they learn.


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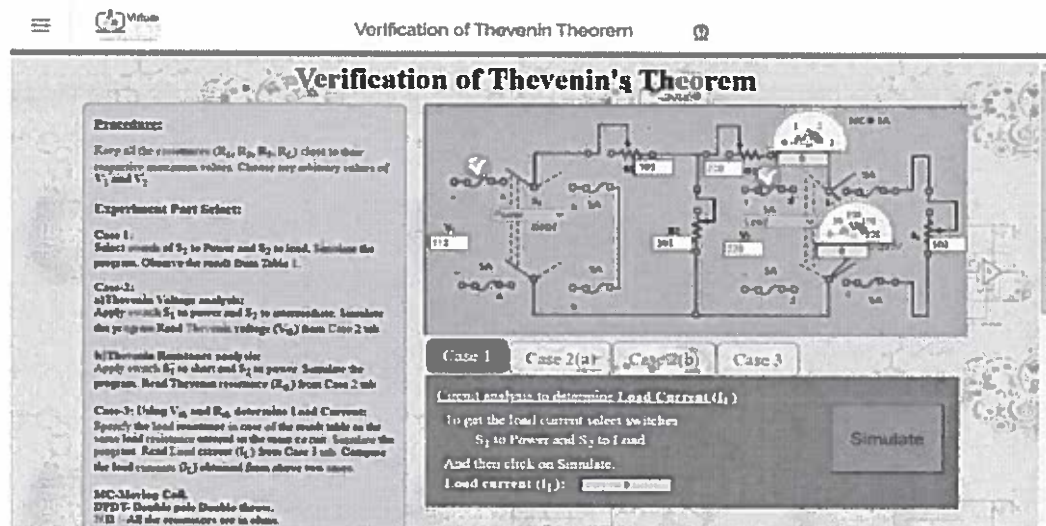
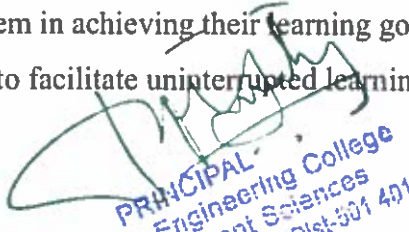


Fig : Virtual Lab by IIT Kharagpur



Fig: Simulation Labs

- c. **Web-Based Learning:** The internet serves as a vast resource for information and media, allowing students to create self-directed learning environments. Its interactivity enables learners to gather pertinent information, aiding them in achieving their learning goals. Our campus provides round-the-clock internet access to facilitate uninterrupted learning.


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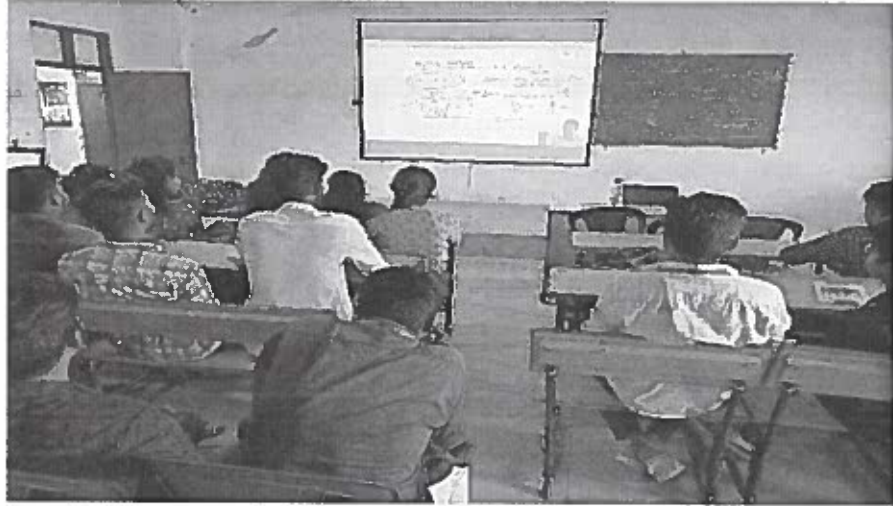


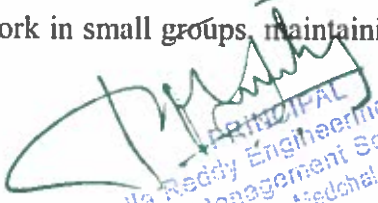
Figure: NPTEL Video Lecture

- d. **Pedagogical Initiatives:** In addition to conventional teaching methods, we incorporate various techniques like visual aids, real-world examples, group assignments, and interactive discussions to enrich the learning experience.



Figure: Teaching with the Physical Model

- e. **Group Discussions:** These sessions are designed to foster problem-solving skills through simulations and collaborative efforts.
- f. **Quality Laboratory Experiments:** Our labs are equipped with state-of-the-art equipment and follow standardized procedures. Students work in small groups, maintaining detailed


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records of their experiments. Teachers provide immediate feedback, ensuring a thorough understanding.

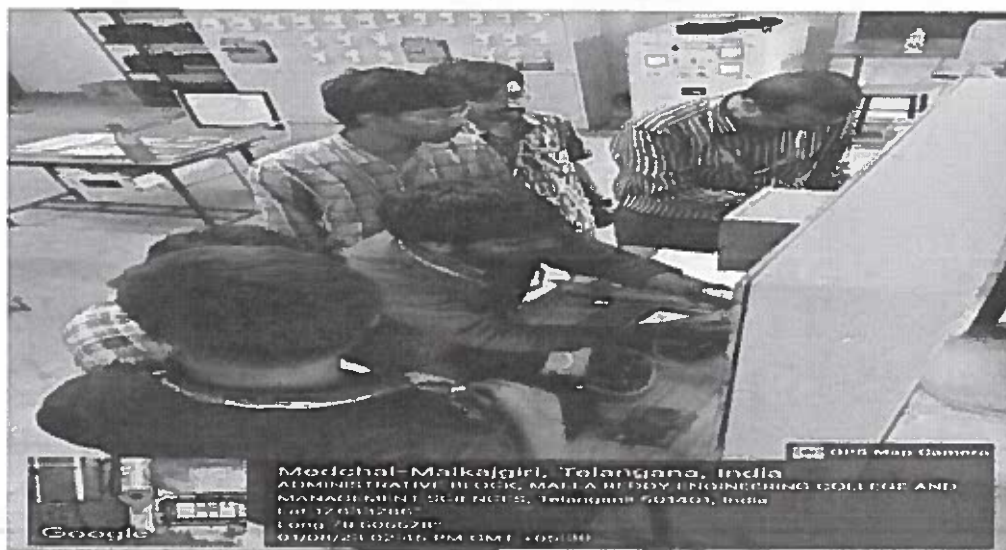
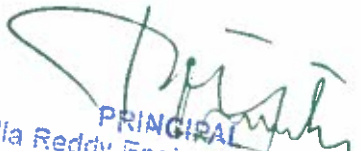


Figure: Laboratory Experiment

- g. **Student Assessment:** We analyze unit and class test results to identify both struggling and high-achieving students.
- h. **Support for Weak Students:** We offer regular counselling and mentorship, closely monitoring their progress and arranging extra classes for subjects they struggle with. Study groups with brighter peers and an emphasis on attendance help strengthen their performance.
- i. **Support for Bright Students:** We challenge high-performing students with advanced assignments and encourage their participation in external events, such as seminars, conferences, and competitions. Additionally, we promote their involvement in research and mentorship of peers.
- j. **Teaching through social media platforms:** Social media platforms are being included into MREM institution educational systems to enhance student life in general and contact with peers in particular. It gives institutions a quick and simple way to communicate with students and lets them give and receive feedback. Over the past ten years, social media


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usage has increased dramatically since, according to current Statistics, practically all college students use some kind of social networking website. Research indicates that 99% of college students utilize social media sites like Facebook, YouTube, and Twitter, which are frequently used by educational institutions to communicate with students and easily give information. Schools also believe that using technology to communicate information is essential to students' progress.

YouTube channel: MREM-EEE

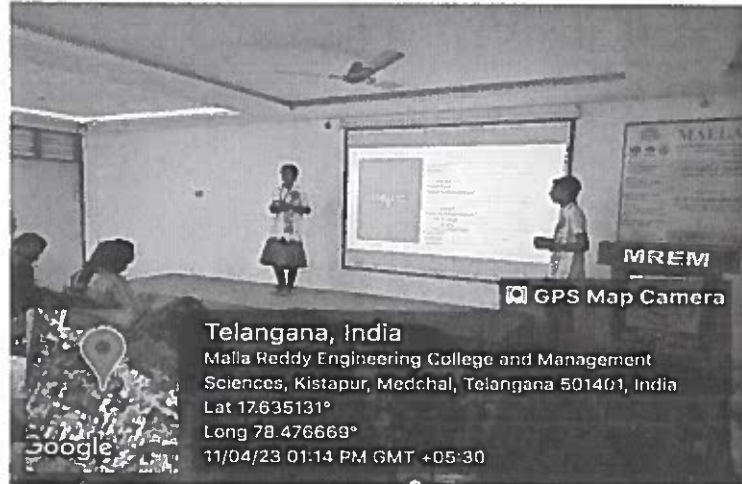
LINK: <https://youtube.com/@MREM-EEE?si=KB2XG2TAgkBRtgP5>



Figure : Teaching through social media

13. Project-Based Learning: Encourage students to work on hands-on projects that require them to apply their knowledge and skills to solve real-world problems. This approach promotes active learning, collaboration, and critical thinking.

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14. Industry Internships:


Facilitate internships or cooperative education programs with local IT companies. Internships provide students with real-world work experience, exposure to industry practices, and networking opportunity.

I. Industrial visit is a very important stage of the professional courses where students get an opportunity to real-time experience to visualize, analyse the academic part practically. And the experience is beyond the academics 'part.

II. Practical knowledge is well improved by doing industrial visits consistently and periodically

III. This enables the students to get interacted with working professionals that builds their career in getting the placement very easily.




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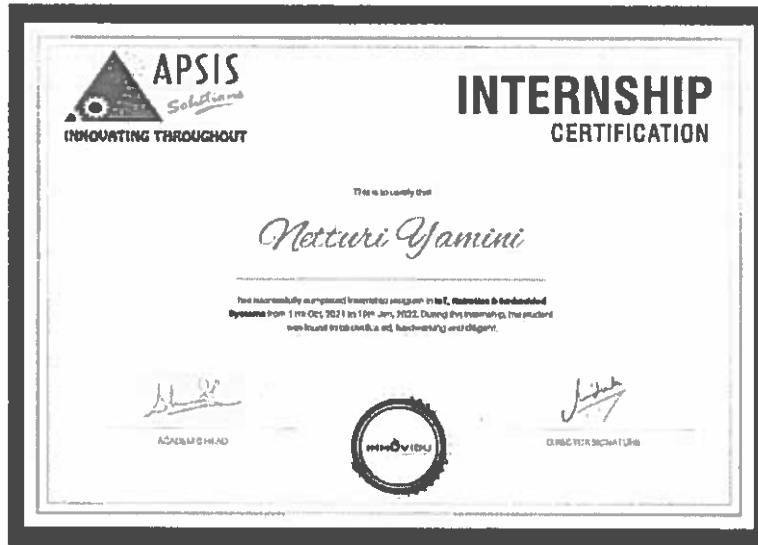



Fig: Industry Internship certificate

15. **Active Learning:** Move away from passive lectures and involve students in active participation. Use techniques such as group discussions, debates, case studies, and demonstrations. Encourage students to ask questions, explore concepts, and engage in problem-solving exercises.



Fig: Active Learning


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16. **Digital Library:** Our institution boasts a digital library, providing students with access to a wealth of educational content available around the clock. Digital library is well equipped systems to access E-journals J-Gate. In addition Multimedia E-Learning Centre. NPTEL Facility (National Program on Technology Enhanced Learning) to access web & video lectures and Institutional Membership of DELNET (Inter- library loan) for resource sharing are available in the library.

DELNET (DEVELOPING LIBRARY NETWORK)

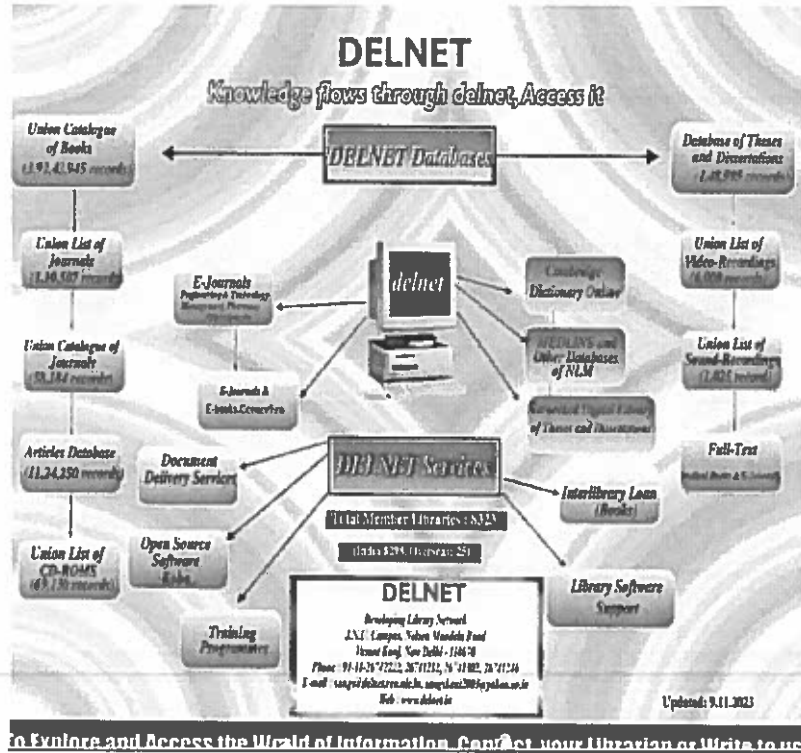
<http://delnet.in> Click" New Discovery Portal"

Login Id: tgmrecms

Password: mre5664



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2022-23 (ODD SEM)

S. No	Name of the faculty	Dept	Designation	Name of the Activity	Name of the Subject	Name of Topic	Year of Study	Semester	Academic Year	Description of the activity	No of Students Involved
1	T.BHAVANI	EEE	Assistant Professor	Virtual labs	ECA	Thevenin's theorem	II	I	2022-2023	Entire Class Involved	Class
2	P.VENKAIAH	EEE	Assistant Professor	Teaching through Animation	EM-I	Generator	II	I	2022-2023	Entire Class Involved	Class
3	M.CHAITANYA	EEE	Assistant Professor	PPTs	EMF	Electro magnetic waves	II	I	2022-2023	Entire Class Involved	Class
4	S.MANISH	EEE	Assistant Professor	PPTs, NPTEL Videos	P.E	Single phase full wave rectifier with RL load	III	I	2022-2023	Entire Class Involved	Class
5	G.ISMAYEL	EEE	Assistant Professor	PPTs, Videos	PS-II	Insulation coordination	III	I	2022-2023	Entire Class Involved	Class
6	T.SIVARAM	EEE	Assistant Professor	PPTs, Videos	M.I	PMMC	III	I	2022-2023	Entire Class Involved	Class
7	T.MURALI KRISHNA	EEE	Assistant Professor	PPTs, Videos	HVE	SPHERE GAP AND UNIFORM FIELD GAP VOLTAGE MEASUREMENTS	III	I	2022-2023	Entire Class Involved	Class
8	I.VIDYA SREE	EEE	Assistant Professor	PPTs, Videos	HVDC	Harmonics	IV	I	2022-2023	Entire Class Involved	Class

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1	P.VENKAIAH	EEE	Assistant Professor	Teaching through Animation	EM-II	3-phase induction motor	II	II	2022-2023	Entire Class Involved	Class
2	DR.B.MABU SARIF	EEE	Associate Professor	Simulation	CS	Bode plot	II	II	2022-2023	Entire Class Involved	Class
3	S.MANISH	EEE	Assistant Professor	Teaching through Visualization and Physical Model	PS-I	Power Plants	II	II	2022-2023	Entire Class Involved	Class
4	G.ISMAYEL	EEE	Assistant Professor	PPTs, Videos	PSD	Control of DC Motors By Choppers	III	II	2022-2023	Entire Class Involved	Class
5	DR.B.MABU SARIF	EEE	Associate Professor	Physical Model	PSP	Circuit breakers	III	II	2022-2023	Entire Class Involved	Class
6	DR.K.BHAUMI K	EEE	Associate Professor	Teaching through Visualization and Physical Model	PSOC	Load Frequency Control	III	II	2022-2023	Entire Class Involved	Class
7	I.VIDYA SREE	EEE	Assistant Professor	PPTs, Videos	PQ&FACTS	CSI, VSI	IV	II	2022-2023	Entire Class Involved	Class
8	T.BHAVANI	EEE	Assistant Professor	PPTs, Videos	EDS	Optimal location of Substations	IV	II	2022-2023	Entire Class Involved	Class
9	M.CHAITANYA	EEE	Assistant Professor	PPTs, Videos	NCSE	Solar Energy	IV	II	2022-2023	Entire Class Involved	Class



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1	MD.PASHA	IT	Assistant Professor	Virtual labs	Operating Systems	Operating System Functions	II	II	2022-2023	Entire Class Involved	Class
2	M.MOUNIK A	IT	Assistant Professor	Videos	Database Management System	Normalization	II	II	2022-2023	Entire Class Involved	Class
3	K.HIMA BINDU	IT	Assistant Professor	NPTEL	Java Programming	Programming in Java	II	II	2022-2023	Entire Class Involved	Class
4	Dr.VENKATA RAMANA K	IT	Associate Professor	Peer Learning	Algorithm Design And Analysis	Travelling sales person problem	III	II	2022-2023	Entire Class Involved	Class
5	A. DIVYA	IT	Assistant Professor	PPTs, Videos	Internet Of Things	Big data analytics	III	II	2022-2023	Entire Class Involved	Class
6	A.POORNI MA	IT	Assistant Professor	PPTs, Videos	Software Testing Methodologies	State Graphs and Transition testing	III	II	2022-2023	Entire Class Involved	Class
7	J. SURESH	IT	Assistant Professor	Videos	Natural Language Processing	Semantic Interpretation,	IV	II	2022-2023	Entire Class Involved	Class
8	SAI KIRAN YADAV	IT	Assistant Professor	PPTs	Organizational Behaviour	Ethics, culture	IV	II	2022-2023	Entire Class Involved	Class

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2022-23 (ODD SEM)

S. No	Name of the faculty	Dept	Designation	Name of the Activity	Name of the Subject	Name of the Topic	Year of Study	Semester	Academic Year	Description of the activity	No of Students Involved
1	k.saritha	ECE	Asst..prof	Lecture-based Teaching (Chalks & Board)	DSD	Flip Flops: SR, JK, JK Master Slave	II	I	2022-23	Entire Class involved	Class
2	G.swathi	ECE	Prof	integration of modern teaching aids- (LCDproject ors)	MPMC	8051 INTERFACING	III	I	2022-23	Entire Class involved	Class
3	k.shirisha	ECE	Asst.prof	integration of modern teaching aids- (LCDproject ors)	DIP	IMAGE HANCEMENT	IV	I	2022-23	Entire Class involved	Class
4	P.Sandeep	ECE	Assoc.prof	Guest Lecture And Industry Collaboration	MPMC	ARM-09 PROCESSOR	III	I	2022-23	Entire Class involved	Class
5	Dr.Prem sagar	ECE	Asst.prof	FLIPPED CLASSROOM	SS	SAMPLING TECHNIQUES	III	I	2022-23	Entire Class involved	Class


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2022-23 (EVEN SEM)


S. No	Name of the faculty	Dept	Designation	Name of the Activity	Name of the Subject	Name of the Topic	Year of Study	Semester	Academic Year	Description of the activity	No of Students Involved
1	Dr.K. V.Ganesh	ECE	Assoc..prof	Lecture-based Teaching (Chalks & Board)	VLSI	Cmos inverter Stick diagram	III	II	2022-23	Entire Class involved	Class
2	Dr.Manvinder Sharma	ECE	Prof	integration of modern teaching aids- (LCD projectors)	ADC	Amplitude modulation	II	II	2022-23	Entire Class involved	Class
3	Dr.premrager	ECE	Aoss.prof	Group Discussions and Problem solving Sessions	DSP		III	II	2022-23	Entire Class involved	Class
4	P.SANDEEP	ECE	Assoc.prof	Guest Lecture And Industry Collaboration	VLSI	FPGA, PLACEMENT AND ROUTING , VERILOG	III	II	2022-23	Entire Class involved	Class


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	Dr.Manvinder sharma	ece	prof	FLIPPED CLASSROOM (educational videos)	AWP	Helical Antenna	III	II	2022-23	Entire Class involved	Class
5											
6	K. V Ganesh	ECE	PROF	Lecture-based Teaching (fundamental concepts)	ICA	Introduction to IC'S	II	II	2022-23	Entire Class involved	Class
7	K.Saritha	ECE	Asst.prof	Lecture-based Teaching(PowerPoint presentations)	ECA	Voltage feed back amplifier	II	II	2022-23	Entire Class involved	Class
8	Dr.Premrager	ECE	Aoss.prof	Multimedia an Online Resources (Animations)	DSP	Fft, fir fil using windows,finite	III	II	2022-23	Entire Class involved	Class
9	k.saritha	ECE	Asst.prof	Simulation an Virtual Labs(simulation tools)	ECA	RESONANCE	II	II	2022-23	Entire Class involved	Class


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1	P.SRINIVASA KUMAR	M.E	Assistant Professor	Teaching through Animation	COMPOSITE MATERIALS	FILAMENT WINDING & HAND LAYUP PROCESS	IV	II	2022-2023	Entire Class Involved	Class
2	I.MURALI KRISHNA	M.E	Assistant Professor	Teaching through Animation	HEAT TRANSFER	HEAT EXCHANGER	III	II	2022-2023	Entire Class Involved	Class
3	P.SUKUNYA	M.E	Assistant Professor	Teaching through Visualization and Physical Model	THERMAL ENG-I	WORKING OF IC ENGINES	II	II	2022-2023	Entire Class Involved	Class
4	B.RAMKISHORE	M.E	Assistant Professor	Physical Model	ENGINEERING GRAPHICS	DEMONSTRATION OF 3 DIMENSIONAL SOLID MODELS	I	I/II	2022-2023	Entire Class Involved	Class

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1	P.JEEVANA	C.E	Assistant Professor	Teaching through STAAD PRO	S.E-II	DESIGN OF STEEL STRATURE	III	II	2022-2023	Entire Class Involved	Class
2	Dr. M. PRIYANKA	C.E	Associate Professor	Teaching through GPS MAPS	RS&GIS	GEOLOGIC AL INFORMATI ON SYSTEMS	IV	II	2022-2023	Entire Class Involved	Class
3	B.MOHAN BABU	C.E	Assistant Professor	Teaching through Visualization and Physical Model	SM-II	TORSION	II	II	2022-2023	Entire Class Involved	Class
4	Dr. V. SWATHI	C.E	Assistant Professor	REAL TIME LEARNING	PSC	PRESTRESS ING SYSTEMS	III	II	2022-2023	Entire Class Involved	Class

2022-23 (ODD-SEM)

S. No	Name of the faculty	Dept	Designation	Name of the Activity	Name of the Subject	Name of Topic	Year of Study	Sem	Academic Year	Description of the activity	No of Students Involved
1	Dr. MANISARMA. VITTAPU	CSE	Professor	PPT's, Flippe d Class Rooms	DATA STRUCT URES	Linear List, Stack Flow Control	II	I	2022-23	Entire Class Involved	Class

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2	Dr.D.MAHAMMA D RAFI	CSE	Associate Professor	PPT's, Videos	OOPS USING C++	Statements, ADT, Operation	II	I	2022-23	Entire Class Involved	Class
3	GOLLA CHAKRAPANI	CSE	Asst. Professor	PPT's, Videos	COA	Control Memory, CISC	II	I	2022-23	Entire Class Involved	Class
4	BABU ENTHOTI	CSE	Asst. Professor	PPT's, Videos	FLAT	DFA,NFA	III	I	2022-23	Entire Class Involved	Class
5	KUNDURU ASHWINI	CSE	Asst. Professor	PPT's, NPTEL Works hop.	AI	Depth First Search, Knowledge- Based Agent	III	I	2022-23	Entire Class Involved	Class
6	SOMIREDDY SPANDANA	CSE	Asst. Professor	PPT's, Interns hip	SE	CMMI, Feasibility studies	III	I	2022-23	Entire Class Involved	Class
7	SARIKONDA.SIN DHUJA	CSE	Asst. Professor	PPT's, Videos	AOS	System Architecture Types, Distributed OS	III	I	2022-23	Entire Class Involved	Class
8	PERAM PRASHANTHI	CSE	Asst. Professor	PPT's, Videos	CC	Grid Computing, Five Essential Characteristics	IV	I	2022-23	Entire Class Involved	Class
9	HALAVATH.PED A SYDULU	CSE	Asst. Professor	PPT's, Videos	SPPM	The Defined Process, Evolution of Software Economics	IV	I	2022-23	Entire Class Involved	Class
10	APPALANENI.LA VANYA	CSE	Asst. Professor	PPT's, Videos	ACA	PARAM, VLSI Models Scalability Analysis And Approaches	III	I	2022-23	Entire Class Involved	Class

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11	KANDUKURI VENKATAKRISHNA	CSE	Asst. Professor	PPT's, W3 - Schools	WT	HTML Tables, JSP,	III	I	2022-23	Entire Class Involved	Class
12	ELGURI SHRAVAN KUMAR	CSE	Asst. Professor	PPT's, Videos	CN	OSI, Wireless LAN	III	I	2022-23	Entire Class Involved	Class

2022-23 (EVEN-SEM)

S. No	Name of the faculty	Dept	Designation	Name of the Activity	Name of the Subject	Name of the Topic	Year of Study	Sem	Academic Year	Description of the activity	No of Students Involved
1	Dr. MANISARMA. VITTAPU	CSE	Professor	PPTs, Videos	CD	Structure Of Compiler, Lexical Analyzer	III	II	2022-23	Entire Class Involved	Class
2	Dr.D.MAHAMMAD RAFI	CSE	Associate Professor	PPTs, Videos	DAA	Disjoint Set Operation, Union Algorithm	III	II	2022-23	Entire Class Involved	Class
3	BABU ENTHOTI	CSE	Asst. Professor	PPTs, Videos.	JAVA PROGRAMMING	Inheritance, Interface	II	II	2022-23	Entire Class Involved	Class
4	MACHA MAHIPAL REDDY	CSE	Asst. Professor	PPTs, Videos.	DISTRIBUTED SYSTEM	RPC, OS Layer	IV	II	2022-23	Entire Class Involved	Class

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S. No	Name of the faculty	Dept	Designation	Name of the Activity	Name of the Subject	Name of Topic	Year of Study	Semester	2022-23	Entire Class Involved	Class
5	SOMIREDDY SPANDANA	CSE	Asst. Professor	PPTS, NPTEL	DBMS	DDL, DML Commands, Normal forms	II	II	2022-23	Entire Class Involved	Class
6	SARIKONDA. SINDHUJA	CSE	Asst. Professor	PPTS, NPTEL	OS	Deadlocks, Deadlocks Avoidance	II	II	2022-23	Entire Class Involved	Class
7	PERAM PRASHANTHI	CSE	Asst. Professor	PPTS, Internship, Guest Lectures	ML	Decision Tree Learning, ANN	III	II	2022-23	Entire Class Involved	Class
8	KANDUKURI VENKATAKRISHNA	CSE	Asst. Professor	PPT's, Flipped Class Rooms	STM	Transaction Flow Testing, Paths.	III	II	2022-23	Entire Class Involved	Class

2022-23

S. No	Name of the faculty	Dept	Designation	Name of the Activity	Name of the Subject	Name of Topic	Year of Study	Semester	Academic Year	Description of the activity	No of Students Involved
1	M.RAJITHA	MBA	Assistant Professor	REAL-TIME CASE STUDY	LBE	CONTRACT LAWS	I	I	2022-2023	Entire Class Involved	Class

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2	M. RAJITHA	MBA	Assistant Professor	MOCK INVESTMENTS	SAPM	PORTFOLIO MANAGEMENT	II	I	2022-2023	Entire Class Involved	Class
3	MD.SOHAIL BABA	MBA	Assistant Professor	ANALYTICS USING SPREADSHEETS	FRA	FINANCIAL ANALYSIS	I	I	2022-2023	Entire Class Involved	Class
4	DR SHAIKH MASTAN VALI	MBA	Assistant Professor	GAMIFICATION	QABD	GAME THEORY	I	II	2022-2023	Entire Class Involved	Class
5	THAIR UNNISA	MBA	Assistant Professor	PROJECT BASED LEARNING (PBL)	FM	CAPITAL BUDGETING	I	II			

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