



INNOVATIONS BY THE FACULTY IN TEACHING AND LEARNING

Table 5.5.1: Innovative techniques by the faculty

A. Y.: 2023-24					
S.No	Activity Name	Faculty Name	Subject Name	Year & Section	Topic Name
1	Word Search	M Pavitra	Satellite Communications	IV-I Weber	Modulation, multiplexing and access methods
2	Word Search	G Manga Rao		IV-I Kelvin	Coordination and registration of satellites
3	YouTube Channel	Dr MH Rajvee	Radar Engineering	IV-I Weber	Radar Systems Concepts
4	YouTube Channel	Dr S Penchala Reddy		IV-I Tesla	Radar Systems Concepts
5	Word Search	Dr D Likhith Reddy		IV-I Kelvin	Radars Basics
6	Seminars	Dr M. Venkatesan	Cellular & Mobile Communications	IV-I Weber	Elements of Cellular Radio System Design
7	Seminars	Dr N. Sateesh Kumar		IV-I Tesla	Interference in Cellular Mobile System
8	Learning Through Visualize	P Sasitha	Electromagnetic Waves & Transmission Lines	III-I Weber, Henry	Coordinate System Concept
9		CV Kavya Suvarchala		III-I Tesla	Electric Dipole
10		K Ravi Babu		III-I Kelvin	Gauss Law
11	Visible Quiz	Dr D Prathyusha Reddi	Integrated Circuits & Applications	III-I Weber	Op-Amp Applications & Integrator and Differentiator
12	One Minute Paper	G V Sai Bharadwaj		III-I Tesla, Kelvin	Inverting and non-inverting amplifier configurations
13	One Minute Paper	A Srinivasa Rao		III-I Henry	Inverting comparator
14	Cross Word Puzzle	SK Jagadeesh Babu	Digital Communications	III-I Weber, Henry	Pulse modulation
15	Visible Quiz	P Shalini		III-I Tesla, Kelvin	Amplitude Modulation



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

16	Seminars	K S Bhanu Rekha	Data Communication Networking	III-I Weber	Inter Networking
17	Visible Quiz	S Shamar Sulthana		III-I Tesla	Protocols & PPP stack.
18	Seminars	V Anjaiah		III-I Kelvin	Network Devices-repeaters
19	YouTube Channel	A Venka Reddy		III-I Henry	Data Communications & Networks
20	One Minute Paper	Dr R Ranjith Kumar	Probability Theory & Stochastic Processes	II-I Tesla, Ohm	Conditional Distribution & Density Function
21	Class Point Quiz	M Rammohan Reddy		II-I-Watt, Kelvin	Joint CF & Properties of CF
22	Class Point Quiz	Dr V Prakasam		II-I Weber	Joint MGF & Properties of Joint MGF
23	Learning Visualize	SK Rizwan		II-I Henry	Probability Concept
24	Visible Quiz	V Narayana Reddy	Pulse & Digital Circuits	II-I Weber	Clippers & Clamper Circuits
25	Visible Quiz	Dr Girish Gandhi		II-I Henry	Clippers & Clamper Circuits
26	One Minute Paper	Dr A Maheswara Reddy		II-I- Watt	Full Wave Rectifier
27	Visible Quiz	Dr S M Lakshmi Sri		II-I Kelvin	Clippers & Clamper Circuits
28	Visible Quiz	M Venkata Rathnam		II-I Tesla., Ohm	Clippers & Clamper Circuits
29	Crossword Puzzle	P Sreenivasulu	Signals & Systems	II-I Weber	Classification of signals
30	Visible Quiz	G Malyadri		II-I Watt	Singularity Functions
31	One Minute Paper	Dr R Sravanthi		II-I Tesla	Fourier Series Properties
32	Visible Quiz	K Ashok Kumar		II-I Ohm	Fourier Series & Applications
33	Learning Through	M Madhullika		II-I Kelvin	Fourier Transform
34	Visualize	R Venkateswarlu		II-I Henry	Convolution Example



A. Y.: 2022-23

S.No	Activity Name	Faculty Name	Subject Name	Year & Section	Topic Name
1	Word Search	Mr. V Narayana Reddy	VLSI Design	IV-I Weber	VLSI Design Basics
2	Word Search	Mr. K Ashok Kumar		IV-I Tesla	VLSI Stick Diagram
3	Visible Quiz	Mr. A. Venka Reddy		IV-I Kelvin	Stick Diagram
4	Cross Word Puzzle	Dr. S. M. Lakshmi Sri		IV-I Henry	VLSI Stick Diagram
5	Cross Word Puzzle	Dr. A. Maheswara Rao	Microwave Engineering and Optical Communications	IV-I Weber	Optical communication
6	Visible Quiz	Ms. P. Shalini		IV-I Tesla	Transmission lines and Optical Communications
7	Cross Word Puzzle	Dr S. Panchala Reddy		IV-I Kelvin	Microwave transmission lines & photo detectors
8	Visible Quiz	Mr. LML Narayana Reddy		IV-I Henry	Transmission lines and Optical Communications
9	Visible Quiz	Mr. A Suman Kumar Reddy	Embedded Systems	IV-I Weber	Purpose of ESD & Firmware development.
10	Flipped Classroom	Mr. V Bharath Kumar		IV-I Tesla	Embedded software in a system
11	Visible Quiz	Mr. P Sreenivasulu		IV-I Kelvin	Purpose of ESD & Firmware development.
12	Seminars	Dr. D. Prathyusha Reddi		IV-I Henry	Major application areas of embedded systems
13	Crossword Puzzle	SK. Afrin	Control Systems	III-I Weber	Reducing Block Diagram and Bode Plot
14	Visible Quiz	Mr. M. Venkata Rathnam		III-I Tesla	Reducing Block Diagram and Bode Plot
15	Visible Quiz	J. Sujitha		III-I Kelvin	Reducing Block Diagram and Bode Plot
16	Word Search	Dr. M. Venkatesan	Digital Signal Processing	III-I Weber	Filters
17	Visible Quiz	Dr. N. Sateesh Kumar		III-I Tesla	Digital Filters



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18	Word Search	P Sasitha		III-I Kelvin	Filters
19	Visible Quiz	Mrs. Sk. Jabeena	Microprocessors and Microcontrollers	III-I Weber	Addressing modes
20	Cross Word Puzzle	M. Madhullika		III-I Tesla	8086 pin diagram
21	Visible Quiz	Sk Najma Sulthana		III-I Kelvin	Addressing modes
22	Flipped Classroom	Mr. G Manga Rao	Computer Architecture & Organization	III-I Weber	Memory-Reference Instructions
23	Group Discussions	Mr. R S Pratap Singh		III-I Tesla	Memory Reference Instructions
24	Group Discussions	Mr. Sk Jagadeesh Babu		III-I Kelvin	Basic Computer Organization
25	Visible Quiz	Mr. D Likhith Reddy	Signals & Systems	II-I Weber, Henry	Fourier Series & Applications
26	Learning Through Visualize	Mrs. R. Sravanthi		II-I Tesla, Kelvin	Convolution Example
27	Visible Quiz	Mrs. C V Kavya Suvarchala	Pulse and Digital Circuits	II-I Weber, Henry	Clippers & Clamper Circuits
28	Visible Quiz	Mr. R Ranjit Kumar		II-I Tesla, Kelvin	Clippers & Clamper Circuits
29	Crossword Puzzle	Dr. V. Prakasam	Probability Theory and Stochastic Process	II-I Weber	Random Variables
30	Class Point Quiz	Mr. M Rammohan Reddy		II-I Tesla, Kelvin	Joint MGF, Joint CF & Properties of Joint MGF & CF
31	One Minute Paper	Mr. A. Srinivasa Rao		II-I Henry	Conditional Distribution & Density Function
32	One Minute Paper, Class Polls	Dr. V. Prakasam	Python Programming	II-I Weber	Python Functions & Python Modules. Crate Own Python Modules Program
33	Think-Pair- Share	Mrs. P. Shalini	Analog IC Design	IV-II Weber	Wilson Current Mirror
34	One Minute Paper	Mr. D. Likhith Reddy		IV-II Tesla	Cascode Op Amps



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35	Crossword Puzzle	Dr MD H Rajvee		IV-II Kelvin	Two-Stage Comparator
36	Think-Pair-Share	Dr. S. M. Lakshmi Sri		IV-II Henry	Wilson Current Mirror
37	NPTEL/COU RSERA Video Class	Mr. R Ranjith Kumar	Antenna & Microwave Engineering	III-II Weber	Dipole Radiation Pattern
38	Learning Through Visualize	Mr. A Venka Reddy		III-II Tesla	Magic Tee
39	Flipped Classroom	P Sasitha		III-II Kelvin	Micro-Strip Antennas
40	Word Search	Mr. LML Narayana Reddy	VLSI Design	III-II Weber	VLSI Design Basics
41	Word Search	Mrs. A Nagamalli		III-II Tesla	VLSI Stick Diagram
42	Cross Word Puzzle	J Sujitha		III-II Kelvin	VLSI Stick Diagram
43	Visible Quiz	Dr. M. Venkatesan	Data Communication Networks	III-II Weber	Protocols & PPP stack
44	Seminars	Dr. N. Sateesh Kumar		III-II Tesla	Network and Protocol Architecture
45	Seminars	Mrs. K S Bhanu Rekha		III-II Kelvin	Network Devices-repeaters
46	Flipped Classroom	Mr. A Suman KumarReddy	Embedded System Design	III-II Weber	Characteristics of an embedded system
47	Visible Quiz	Mrs. Sk Jabeena		III-II Tesla	Purpose of ESD & Firmware development.
48	Flipped Classroom	Mr. K Ravi Babu		III-II Kelvin	Communication interface
49	Mind Map	Mr. Sk Rasool	Digital System Design	II-II Weber	Overview Of Digital System Design
50	Mind Map	Mr. K Penchalaiah		II-II Tesla	Overview Of Digital System Design
51	Mind Map	Mr. V Anjaiah		II-II Kelvin	Overview Of Digital System Design
52	Mind Map	Mr. M Rammohan Reddy		II-II Henry	Overview Of Digital System Design
53	Crossword Puzzle	Mrs. R Sravanthi		II-II Weber	Electronic Circuit Basics



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54	Visible Quiz	Mrs. C V Kavya Suvarchala	Electronic Circuit Analysis & Design	II-II Tesla	Circuit Analysis Basics
55	Word Search	Mr. G V Sai Bharadwaj		II-II Kelvin	Basics of Electronics Circuits
56	Visible Quiz	M Surekha		II-II Henry	Circuit Analysis Basics
57	Visible Quiz	Dr A Maheswara Reddy	Analog Communications	II-II Weber	Amplitude Modulation
58	Cross Word Puzzle	Mr. Sk Jagadeesh Babu		II-II Tesla	Pulse modulation
59	Cross Word Puzzle	Dr. D Prathyusha Reddi		II-II Kelvin	Pulse modulation
60	Visible Quiz	Mr. R S Pratap Singh		II-II Henry	Amplitude Modulation
61	Visible Quiz	Mr. M Venkata Rathnam	Control Systems	II-II Weber	Reducing Block Diagram and Bode Plot
62	Visible Quiz	Mr. G Malyadri		II-II Tesla	Reducing Block Diagram and Bode Plot
63	Crossword Puzzle	Sk Afrin		II-II Kelvin	Reducing Block Diagram and Bode Plot
64	Crossword Puzzle	Mr. K. Ravi Chandra		II-II Henry	Reducing Block Diagram and Bode Plot



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Table 5.5.2: Innovative techniques by the faculty

A. Y.: 2021-22					
S.No	Activity Name	Faculty Name	Subject Name	Year & Section	Topic Name
1	Seminars	Mr. R S Pratap Singh	Optical Fiber Communications	IV-I Weber, Kelvin	Optical Fiber Wave Guides
2	One Minute Paper	Dr. MD Hayath Rajvee		IV-I Tesla	Polarization Mode Dispersion
3	Visible Quiz	Mr. A Suman Kumar Reddy	Embedded Systems	IV-I Weber, Kelvin	Firmware development.
4	Flipped Classroom	Mr. D Uma Maheswara Reddy		IV-I Tesla	Embedded software in a system
5	Learning Through Visualize	Mr. L M L Narayana Reddy	Microwave Engineering	IV-I Weber	Rectangular Wave Guide Field Patterns
6	Design Demonstration	Mr. R Ranjit Kumar		IV-I Tesla	Micro strip transmission lines
7	Learning Through Visualize	Mr. K Ashok Kumar		IV-I Kelvin	Magic Tee Junction
8	Visible Quiz	Mr. M Venkata Rathnam	Data Communication & Networking	IV-I Weber	Protocols & PPP stack
9	Seminar	Mr. R Sateesh		IV-I Tesla	Network Devices-repeaters
10	Visible Quiz	Dr. A Maheswara Rao		IV-I Kelvin	Protocols & PPP stack
11	Word Search	Dr S V Subba Rao	Radar Systems	IV-I Weber	Radars Basics
12	YouTube Channel	Mr. V Narayana Reddy		IV-I Tesla, Kelvin	Radar System Concepts
13	Lab based Learning	Dr A S V Sharma	Digital Image Processing	IV-I Weber	Enhancement Methods
14	Lab based Learning	Dr. M R Arun		IV-I Tesla	Image Processing Toolbox of MATLAB
15	Lab based Learning	Dr. V Prakasam		IV-I Kelvin	Real Time Target Detection
16	Visible Quiz	Dr D Prathyusha Reddi		III-I Weber	Op-Amp Applications & Integrator and Differentiator



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17	One Minute Paper	M Pavitra	Integrated Circuits & Applications	III-I Tesla, Kelvin	Inverting and non-inverting amplifier configurations
18	One Minute Paper	Mr. A Srinivasa Rao		III-I Henry	Inverting comparator
19	Learning Through Visualize	J Sujitha	Antennas And Wave Propagation	III-I Weber	Dipole Antenna Standing Waves
20	Design Demonstration	Mr. V. Phani Bushan		III-I Tesla, Kelvin	Half wave dipole antenna
21	Using Tools	Mr. M Rama Mohan Reddy		III-I Henry	Circular Patch Antenna
22	Cross Word Puzzle	Mrs. Sk Jabeena	Digital Communications	III-I Weber	Pulse modulation
23	Visible Quiz	M. Madhullika		III-I Tesla	Amplitude Modulation
24	Cross Word Puzzle	Mrs. A Nagamalli		III-I Kelvin	Pulse modulation
25	Visible Quiz	Mr. Sk Rasool		III-I Henry	Amplitude Modulation
26	Seminar	Dr. S M Lakshmi Sri	Data Communications & Networks	III-I Weber	Network and Protocol Architecture.
27	Seminar	Mr. G Malyadri		III-I Tesla	Network Devices-repeaters
28	Visible Quiz	Mr. D Likhith Reddy		III-I Kelvin	Protocols & PPP stack
29	YouTube Channel	Dr N Sateesh Kumar		III-I Henry	DCN Concepts
30	One Minute Paper	Mrs. R Sravanthi	Signals & Systems	II-I Weber	Fourier Series Properties
31	Learning Through Visualize	Mr. A Venka Reddy		II-I Kelvin	Fourier Series
32	Visible Quiz	Dr. Pasala Raja Prakash Rao		II-I Tesla	Singularity Functions
33	Learning Through Visualize	M Surekha	Analog Circuits	II-I Weber, Kelvin	Operational amplifier
34		K Kiranmayi Jyothi		II-I Tesla	Operational amplifier
35	Word Search	M Pavitra		IV-II Weber	VLSI Stick Diagram



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36	Cross Word Puzzle	Dr. S V Subba Rao	Low Power VLSI Design	IV-II Tesla	VLSI Stick Diagram
37	Visible Quiz	Dr A S V Sharma		IV-II Kelvin	Stick Diagram
38	YouTube Channel	Mr. R Ranjit Kumar	RF Integrated Circuits	IV-II Weber	RFIC Concepts
39	Design Demonstration	Dr D Prathyusha Reddi		IV-II Tesla	Filter Design
40	Seminar	Dr A Maheswara Rao		IV-II Kelvin	Modelling of RF Circuits
41	Cross Word Puzzle	Mr. A Suman Kumar Reddy	Microprocessors & Microcontrollers	III-II Weber	8086 pin diagram
42	Visible Quiz	Dr. S.M. Lakshmi Sri		III-II Tesla	Addressing modes
43	Visible Quiz	Mr. V Phani Bushan		III-II Kelvin	Addressing modes
44	Cross Word Puzzle	Dr. V Prakasam		III-II Henry	8086 pin diagram
45	Word Search	Dr N Sateesh Kumar	Digital Signal Processing	III-II Weber	Filters
46	Visible Quiz	Dr. Pasala Raja Prakash Rao		III-II Tesla	Digital Filters
47	Visible Quiz	Mr. G Malyadri		III-II Kelvin	Digital Filters
48	Word Search	Dr. M R Arun		III-II Henry	Filters
49	One Minute Paper	Mrs. A Naga Malli	Digital System Design Through VHDL	III-II Weber	FPGA Building Blocks
50	YouTube Channel	Mr. V Narayana Reddy		III-II Tesla	DSD Concepts
51	Seminar	Mr. L M L Narayana Reddy		III-II Kelvin, Henry	VHDL Fundamentals
52	Visible Quiz	Mr. P Venkateswarlu	Principles & Techniques of Modern Radar Systems	III-II Weber, Henry	Frequency Modulated Radar
53	Word Search	Mr. R Venkateswarlu		III-II Tesla, Kelvin	Radars Basics



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54	Lab based Learning	Mr. V Bharath Kumar	Wavelet Transforms & Its Applications	III-II Weber	Time-Frequency Analysis and Continuous Wavelet Transform
55	Lab based Learning	Mr. M Ramamohan Reddy		III-II Tesla, Henry	Visualizing Wavelets
56	Lab based Learning	Mrs. C V Kavya Suvarchala		III-II Kelvin	Wavelet Packets
57	Flipped Classroom	Mrs. R Sravanthi	Probability Theory & Stochastic Processes	II-II Weber	Expectation of functions of RVs & Transformation of RVs
58	Class Point Quiz	Mr. CH Pavan Kumar		II-II Tesla	MGF, CF & Properties of MGF & CF
59	Word Search	C R Usha		II-II Kelvin	Probability
60	Visible Quiz	Sk Nazma Sulthana	Digital Logic Design	II-II Weber	Number Systems, Boolean algebra
61	Word Search	Mr. A Venka Reddy		II-II Tesla	Number Systems, Boolean algebra
62	Cross Word Puzzle	Mr. M Venkata Rathnam		II-II Kelvin	Logic Gates
63	Google Classroom	Mr. A Srinivasa Rao	EM Waves and Transmission Lines	II-II Weber	EMTL Concepts
64	Learning Through Visualize	K Kiranmayi Jyothi		II-II Tesla, Kelvin	Electrostatics Introduction
65	Cross Word Puzzle	Mr. R S Prathap Singh	Communication Systems	II-II Weber	Pulse modulation
66	Cross Word Puzzle	Mrs. Sk Jabeena		II-II Tesla	Pulse modulation
67	Visible Quiz	Mr. N China Babu		II-II Kelvin	Amplitude Modulation
68	Visible Quiz	Mr. K Penchalaiah	Linear And Digital IC Applications	II-II Weber, Kelvin	Op-Amp Applications & Integrator and Differentiator
69	Visible Quiz	Dr. MD Hayath Rajvee		II-II Tesla	Op-Amp Applications & Integrator and Differentiator



Table 5.5.3: Innovative techniques by the faculty

A. Y.: 2020-21					
S.No	Activity Name	Faculty Name	Subject Name	Year & Section	Topic Name
1	Flipped Classroom	M Pavitra	Low Power VLSI Design	IV-II Weber, Tesla	CMOS circuits
2	YouTube Channel	V Narayana Reddy		IV-II Kelvin	VLSI Concepts
3	Design Demonstration	Dr M R Arun	RF Integrated Circuits	IV-II Weber, Tesla	Filter Design
4	Seminar	Mr. K Penchalaiah		IV-II Kelvin	Modelling of RF Circuits
5	Cross Word Puzzle	Mr. V Prasannanjaneya Reddy	Microprocessors & Microcontrollers	III-II Weber, Tesla	8086 pin diagram
6	Visible Quiz	D Uma Maheswara Reddy		III-II Kelvin	Addressing Modes
7	Visible Quiz	Dr A S V Sharma	Digital Signal Processing	III-II Weber	Digital Filters
8	Visible Quiz	A Venka Reddy		III-II Tesla, Kelvin	Digital Filters
9	Flipped Classroom	Mr. R S Prathap Singh	Industrial Electronics	III-II Weber	Transistor biased in the active region
10	Group Discussions	Mrs. K Uma		III-II Tesla	Scope of industrial Electronics
11	Group Discussions	Mr. R Ranjit Kumar		III-II Kelvin	Scope of industrial Electronics
12	Seminar	Mr. M Rama Mohan Reddy	Electronic Measurements and Instrumentation	III-II Weber, Kelvin	Performance characteristics of Instruments
13	Seminar	Dr D Prathyusha Reddi		III-II Tesla	Digital frequency counters
14	Visible Quiz	Mr. T Gowri Kishore	VLSI Design	III-II Weber	Stick Diagram
15	Cross Word Puzzle	J Sujitha		III-II Tesla	VLSI Stick Diagram



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16	Word Search	C R Usha		III-II Kelvin	VLSI Design Basics
17	Cross Word Puzzle	Mr. V Narayana Reddy	Electronic Circuit Analysis & Design	II-II Weber, Tesla	Electronic Circuit Basics
18	Visible Quiz	M Surekha		II-II Kelvin	Circuit Analysis Basics
19	Word Search	Dr G Sai Kumar		II-II Henry	Basics of Electronics Circuits
20	Visible Quiz	Dr A Maheswara Reddy		II-II Weber	Amplitude Modulation
21	Cross Word Puzzle	Mr. A Suman Kumar Reddy	Analog Communications	II-II Tesla, Kelvin	Pulse modulation
22	Cross Word Puzzle	Mr. K Ashok Kumar		II-II Henry	Pulse modulation
23	Learning Through Visualize	Mr. A Srinivasa Rao		Electromagnetic Theory and Transmission Lines	II-II Weber
24	Visible Quiz	Mr. L M L Narayana Reddy	II-II Tesla		Amperes Circuital Law
25	Video Demonstration	Mr. V Phani Bushan	II-II Kelvin, Henry		Biot-Savart Law
26	Crossword Puzzle	Mr. M Venkata Rathnam	Control Systems	II-II Weber, Tesla	Reducing Block Diagram and Bode Plot
27	Visible Quiz	Dr N Sateesh Kumar		II-II Kelvin, Henry	Reducing Block Diagram and Bode Plot