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Aziz Nagar Gate, C.B. Post, Hyderabad-500 075

Department of Electronics and Communication Engineering
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Innovations by the Faculty in Teaching and Learning after NBA Visit (Feb 2022)

Academic year	SCP	SP	PP	MM	NMC	Quiz	PBL	TPS	Total
2025-26	1	2			1	2	1		7
2024-25	-	2		-	1	2	1	-	6
2023-24	1	2		1	1	2	2	1	10
2022-23	3	1		-	2	-	2	1	9
2021-22	2	-	1	-	1	-	1	1	6

SCP - Socio constructivist perspective

SP – Short Presentation

MM – Mind Map

NMC – Never Miss a Class

PBL – Project Based Learning

TPS – Think Pair Share

PP- Poster Presentation



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List of Faculty employing innovative teaching practices

2025-2026									
S.NO.	Faculty Name	Course	Topic	Innovative methods adopted	Goals	Preparation	Significance of Result	Availability of review and critique	Reproducibility and Reusability
1	E.Kavitha	AC	Transistor Hybrid model	Never miss a Class	To Prevent Knowledge Gaps	Create Long-Term and Short-Term Goals	Consistent attendance in class can have a profound impact on a student's academic performance, personal growth, and long-term success	Report will be availed for the references	Standardized Engagement Activities, Attendance Tracking Tools, rewards and certificates
2	Dr.Krishnaiah	NATL	Loading, types of loading	Short Presentation	Develop Presentation	the purpose, organizing content,	communication, time management, critical thinking,	Report will be availed for the	Universal Topics, Evaluation



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					Skills	practicing, and preparing for delivery	confidence, and professionalism	references	Rubrics
3	Mrs. C.H.S.N Sireesha Devi	EMW	Faraday's law	Short Presentation	To Develop Presentation Skills	Purpose, organizing content, practicing, and preparing for delivery	Communication, time management, critical thinking, confidence, and professionalism	Report will be availed for the references	Universal Topics,Evaluation Rubrics
4	Dr.S.Tulasi Prasad	CS	Signal flow graph	Quiz by using Google form and Google Spread Sheet	formative (ongoing) and summative assessment	assigned readings to reinforce understanding.	To Track Progress of each student	Report will be availed for the references	Reliable Data for Evaluation of students,Question Banks
5	Mr. Subhanvali Shaik	AWP	Antenna Parameters	Quiz in Google Form	formative (ongoing) and summative assessment	assigned readings to reinforce understanding.	To Track Progress of each student	Report will be availed for the references	Reliable Data for Evaluation of students,Question Banks
6	Ms. Rehana Farheen	DEE	Karnaugh Map	Socio Constructivist Perspective	Knowledge Construction and Social	Understanding how knowledge is built through social	Students cognitive, social, and emotional	Report will be availed for the	Social and Communication Skills



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					Interaction	interaction, active engagement	development.	references	
7	A.Jaya Lakshmi	SS	Fourier Transform	Problem Based Learning	To involve student in Self-Directed Learning	Students Identify the driving question or challenge that the project will address.	Ability to demonstrate real- world application	Report will be availed for the references	Adaptable,consistency in Learning Outcomes,successful PBL projects can be shared

AY: 2024-25

S. No.	Name of the Faculty	Course	Topic	Innovative methods adopted	Goals	Preparation	Significance of Result	Availability of review and critique	Reproducibility and Reusability
1	A.Jaya Lakshmi	Network Analysis and Transmission lines	RLC Circuit	Short Presentation	To involve student in Self-Directed Learning	Students Identify the driving question or challenge that the project will address.	Ability to demonstrate real-world application	Report will be availed for the references	Adaptable,consistency in Learning Outcomes,succesful PBL projects can be shared



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2	Mr.Md.Akram Ahmed	Microwave Engineering	Microwave Transmission lines	Quiz in Google Form	Formative (ongoing) and summative assessment	Assigned readings to reinforce understanding.	To Track Progress of each student	Report will be availed for the references	Reliable Data for Evaluation of students, Question Banks
3	E.Kavitha	Analog circuits	Transistor Hybrid model	Never miss a Class	To Prevent Knowledge Gaps	Create Long-Term and Short-Term Goals	Consistent attendance in class can have a profound impact on a student's academic performance, personal growth, and long-term success	Report will be availed for the references	Standardized Engagement Activities, Attendance Tracking Tools, rewards and certificates
4	Mrs. T. Swapna Rani	Computer System Architecture	RAM	Short Presentation	To Develop Presentation Skills	The purpose, organizing content, practicing and preparing for delivery	Communication, time management, critical thinking, confidence, and professionalism	Report will be availed for the references	Universal Topics, Evaluation Rubrics



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5	Mr.G.Parameswar	Digital Logic Design	Full adder	Project Based Learning	To involve student in Self-Directed Learning	Students should read, listen to, or reflect on the question or topic being presented	Foster deeper understanding, promote active participation, and enhance critical thinking	Report will be availed for the references	Adaptable, consistency in Learning Outcomes, successful PBL projects can be shared
6	Mr.Subhanvalishai k	Microwave Engineering	Waveguides	Short Presentation	Develop Presentation Skills	The purpose, organizing content, practicing, and preparing for delivery	Communication, time management, critical thinking, confidence, and professionalism	Report will be availed for the references	Universal Topics, Evaluation Rubrics

AY: 2023-24

S. No.	Name of the Faculty	Course	Topic	Innovative methods adopted	Goals	Preparation	Significance of Result	Availability of review and critique	Reproducibility and Reusability
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1	A.Jaya Lakshmi	Signals and systems	Types of Signals	MindMap	To involve student in Self-Directed Learning	Students Identify the driving question or challenge that the project will address.	ability to demonstrate real-world application	Report will be availed for the references	Adaptable, consistency in Learning Outcomes, successful PBL projects can be shared
2	Mr.Md.Akram Ahmed	Antenna Propagation	Antenna Parameters	Quiz in Google Form	formative (ongoing) and summative assessment	Assigned readings to reinforce understanding.	To Track Progress of each student	Report will be availed for the references	Reliable Data for Evaluation of students, Question Banks
3	Dr.Krishnaiah	VLSI	VLSI Design process	Think pair share	To Promote Active Learning	Students should read, listen to, or reflect on the question or topic being presented	Foster deeper understanding, promote active participation, and enhance critical thinking	Report will be availed for the references	Adaptable Methodology, Structured Framework
4	E.Kavitha	Analog circuits	Transistor Hybrid model	Never miss a Class	To Prevent Knowledge Gaps	Create Long-Term and Short-Term Goals	Consistent attendance in class can have a profound impact on a student's academic performance, personal growth,	Report will be availed for the references	Standardized Engagement Activities, Attendance Tracking Tools, rewards and certificates



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							and long-term success		
5	Mr.Ch.Sandeep	VLSI	Design of ASIC	Socio Constructivist Perspective	Knowledge Construction and Social Interaction	Understanding how knowledge is built through social interaction, active engagement	Students cognitive, social, and emotional development.	Report will be availed for the references	Social and Communication skills
6	Mr.G.Parameswar	Computer Architecture	Instruction codes	Project Based Learning	To involve student in Self-Directed Learning	Students should read, listen to, or reflect on the question or topic being presented	Foster deeper understanding, promote active participation, and enhance critical thinking	Report will be availed for the references	Adaptable, consistency in Learning Outcomes, successful PBL projects can be shared
7	Mr.Subhanvalishai k	Network Analysis and Transmission lines	Loading, types of loading	Short Presentation	Develop Presentation Skills	The purpose, organizing content, practicing, and preparing for delivery	Communication, time management, critical thinking, confidence, and professionalism	Report will be availed for the references	Universal Topics, Evaluation Rubrics

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8	J.Sudha Rani	Electromagnetic waves	Reflection coefficient	Problem Based Learning	To involve student in Self-Directed Learning	Students should read, listen to, or reflect on the question or topic being presented	Foster deeper understanding, promote active participation, and enhance critical thinking	Report will be availed for the references	Adaptable, consistency in Learning Outcomes, successful PBL projects can be shared
9	Mr.Satheesh.A	Linear integrated circuits	RC Phase shift oscillator	Short Presentation	Develop Presentation Skills	The purpose, organizing content, practicing, and preparing for delivery	Communication, time management, critical thinking, confidence, and professionalism	Report will be availed for the references	Universal Topics, Evaluation Rubrics
10	Ms.S.SanthiPriya	Control Systems	Signal flow graph	Quiz by using Google form and Google Spread Sheet	formative (ongoing) and summative assessment	Assigned readings to reinforce understanding.	To Track Progress of each student	Report will be availed for the references	Reliable Data for Evaluation of students, Question Banks

AY: 2022-23

S. No.	Name of the Faculty	Course	Topic	Innovative methods adopted	Goals	Preparation	Significance of Result	Availability of review and critique	Reproducibility and Reusability
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1	E.Kavitha	EDC	Depletion region formation of PN Junction diode	Never miss a Class	To Prevent Knowledge Gaps	Create Long-Term and Short-Term Goals	Consistent attendance in class can have a profound impact on a student's academic performance, personal growth, and long-term success	Report will be availed for the references	Standardized Engagement Activities, Attendance Tracking Tools, rewards and certificates
2	Dr.Krishnaiah	VLSI	MOS inverter	Think pair share	To Promote Active Learning	Students should read, listen to, or reflect on the question or topic being presented	Foster deeper understanding, promote active participation, and enhance critical thinking	Report will be availed for the references	Adaptable Methodology, Structured Framework
3	Mrs. C.H.S.N Sireesha Devi	EMW	Faraday's law	Short Presentation	To Develop Presentation Skills	Purpose, organizing content, practicing, and preparing for delivery	Communication, time management, critical thinking, confidence, and professionalism	Report will be availed for the references	Universal Topics, Evaluation Rubrics



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4	Dr.K.Vasanth	Switching theory and logic design	Full Adder	Socio Constructivist Perspective	Knowledge Construction and Social Interaction	Understanding how knowledge is built through social interaction, active engagement	Students cognitive, social, and emotional development.	Report will be availed for the references	Social and Communication Skills
5	Dr.S.Tulasi Prasad	EDC	Diode Formation	Socio Constructivist Perspective	Knowledge Construction and Social Interaction	Understanding how knowledge is built through social interaction, active engagement	Students cognitive, social, and emotional development.	Report will be availed for the references	Social and Communication Skills
6	Mr.G.Parameswar	Computer Architecture	Memory organization	Problem Based Learning	To involve student in Self-Directed Learning	Students should read, listen to, or reflect on the question or topic being presented	Foster deeper understanding, promote active participation, and enhance critical thinking	Report will be availed for the references	Adaptable, consistency in Learning Outcomes, successful PBL projects can be shared



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7	Mr.SubhanvaliShah	Microwave Engineering	Impedance matching	Never miss a Class	To Prevent Knowledge Gaps	Create Long-Term and Short-Term Goals	Consistent attendance in class can have a profound impact on a student's academic performance, personal growth, and long-term success	Report will be availed for the references	Standardized Engagement Activities, Attendance Tracking Tools, rewards and certificates
8	Ms.RehanaFarheen	Embedded system Design	Serial Peripheral interface and IIC	Socio Constructivist Perspective	Knowledge Construction and Social Interaction	Understanding how knowledge is built through social interaction, active engagement	Students cognitive, social, and emotional development.	Report will be availed for the references	Social and Communication Skills
9	A.Jaya Lakshmi	DSP	Fast Fourier Transform	Problem Based Learning	To involve student in Self-Directed Learning	Students Identify the driving question or challenge that the project will address.	Ability to demonstrate real-world application	Report will be availed for the references	Adaptable, consistency in Learning Outcomes, successful PBL projects can be shared

AY: 2021-22



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1	Mr.G.Someswara Rao	EDC	Colpitts Oscillator	Socio Constructivist Perspective	Knowledge Construction and Social Interaction	Understanding how knowledge is built through social interaction, active engagement	Students cognitive, social, and emotional development.	Report will be availed for the references	Social and Communication Skills
2	A.Jaya Lakshmi	Signals and systems	Types of Signals	Poster presentation	Encourage constructive feedback and critiques	Assigned readings to reinforce understanding.	To Track Progress of each student	Report will be availed for the references	Reliable Data for Evaluation of students, Question Banks
3	Mr. CH. Sandeep	VLSI	Sequential Circuit Design	Think pair share	To Promote Active Learning	Students should read, listen to, or reflect on the question or topic being presented	Foster deeper understanding, promote active participation, and enhance critical thinking	Report will be availed for the references	Adaptable Methodology, Structured Framework



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4	E.Kavitha	LDICA	PLL	Never miss a Class	To Prevent Knowledge Gaps	Create Long-Term and Short-Term Goals	Consistent attendance in class can have a profound impact on a student's academic performance, personal growth, and long-term success	Report will be availed for the references	Standardized Engagement Activities, Attendance Tracking Tools, rewards and certificates
5	Dr.S.Tulasi Prasad	LDICA	ADC	Socio Constructivist Perspective	Knowledge Construction and Social Interaction	Understanding how knowledge is built through social interaction, active engagement	Students cognitive, social, and emotional development.	Report will be availed for the references	Social and Communication Skills
6	Mr.G.Parameswar	Computer Architecture	RTL	Problem Based Learning	To involve student in Self-Directed Learning	Students should read, listen to, or reflect on the question or topic being presented	Foster deeper understanding, promote active participation, and enhance critical thinking	Report will be availed for the references	Adaptable, consistency in Learning Outcomes, successful PBL projects can be shared



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Innovations by the Faculty in Teaching and Learning at the time of NBA Visit (Feb 2022)

Academic year	SCP	MM	RP	BB	NMC	DM	Quiz	PBL	VBB	TPS	Total
2020-21	2	1	-	-	2	-	6	-	2	1	14
2019-20	-	2	1	2	2	-	4	2	-	-	13
2018-19	-	4	-		1	1	-	-	-	-	6

SCP - Socio constructivist perspective

MM – Mind Map

RR – Role Play

BB – Brown Bag Approach

NMC – Never Miss a Class

DM – Demonstration Model

PBL – Project Based Learning

VBB – Virtual Black Board

TPS – Think Pair Share



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List of Faculty employing innovative teaching practices

AY: 2020-21

S. No.	Faculty	Topic	Subject	Approach used
1	Pavani.K	Open loop and closed loop, Block diagram reduction techniques	Control systems	Polling using menthe meter, Assignments and Quiz's using canvas
2	S.Saravanan	Processors used in Embedded system	Embedded System Design	Polling, Video Quiz, Survey, Google forms, Google Spreadsheet, Canvas, Moodle, Mentimeter, Kahoot
3	A.Jaya Lakshmi	Diodes and BJT	Basic Electronics	Quiz by using Google form and Google Spread Sheet
4	E.Supraja	Strowger Switching Systems	TSSN	Never miss a Class
5	V.Sridhar	Plotting in MATLAB	Introduction to MATLAB	Quiz by using Google form and Google Spread Sheet
6	S.SanthiPriya	Combinational Circuits	DLD	Never miss a Class
7	A.Jaya Lakshmi	Working of Diode	Basic Electronics	Socio Constructivist Perspective
8	DrK.Vasanth	Discrete Fourier Transform	Digital Signal Processing	Virtual Black Board
9	Mr.G.SomeswaraRao	Formation of Diode	EDC	Socio Constructivist Perspective
10	Mrs.Y.Aruna	E-Commerce, E-Governance, E-Contracts	Cyber Law	Mind Map
11	Mrs.Y.Aruna	E-Commerce, E-Governance, E-Contracts	Cyber Law	Think Pair Share



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12	Mrs.E.Supraja	Semiconductor memories	STLD	Quiz by using Kahoot game
13	Dr.S.Tulasi Prasad	Field Effect Transistor input Voltmeter	EMI	Virtual Black Board
14	Mr.G.Parameswar	RTL	Computer Architecture	Assignments and Quiz's using canvas

AY: 2019-20

S. No.	Faculty	Topic	Subject	Approach used
1	Dr.K.Vasanth	IIR & FIR Filters	Digital Signal Processing	Never miss a class
2	M.LalithaSowmya	Micro controllers using washing machine	Introduction to Micro Controllers and applications	Mind Map
3	G.SreenivasaRao	Oscillators	Analog & Pulse Circuits	Quiz by using Google form and Google Spread Sheet
4	M.LalithaSowmya	Applications Microcontrollers	Embedded system Design	Mind map
5	A.Jaya Lakshmi	PLA,PAL,PROM& State Machines	STLD	Never miss a Class
6	G.SreenivasaRao	Network Theorems & Transmission Lines	NATL	Brown Bag
7	S.Ritesh	Combinational and Sequential Circuits	STLD	Quiz by using Google form and Google SpreadSheet
8	S.SanthiPriya	Open loop and Closed loop Control Systems	Control systems	Brown Bag



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9	S.Radha Devi	Counters	STLD	Quiz by using Google form and Google SpreadSheet
10	A.Jaya Lakshmi	Combinational & Sequential Circuits	STLD	Project Based Learning
11	E.Supraja	Combinational & Sequential Circuits	STLD	Project Based Learning
12	Dr.K.Vasanth	Sampling	PTSP	Role play
13	J.Sridevi	Digital modulation techniques	Analog & Digital Communications	Quiz by using Google form and Google SpreadSheet

AY: 2018-19

S. No.	Faculty	Topic	Subject	Approach used
1	Dr. K.Vasanth	Classification and Characteristics of Embedded Systems	Fundamentals of Embedded Systems	Mind Map
2	Dr. K.Vasanth	Problems in Signals and Systems	Signals and Systems	Never miss a class
3	M.LalithaSowmya	Classification and Characteristics of Embedded Systems	Fundamentals of Embedded Systems	Mind Map
4	A.Jaya Lakshmi	History, Types and applications of Communications	Principles of Communications	Mind Map
5	M.Nirmala	History, Types and applications of Communications	Principles of Communications	Mind Map



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6	E.Kalpana	Electromagnetic waves Directions	EMTL	Demonstration Model
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