# **2.3.2** - Teachers use ICT-enabled tools including online resources for effective teaching and learning

## **Teaching Methodologies**

Following is the summary of teaching aids used by several faculty members for teaching– learning process.

- 1. Black Board-BB
- 2. Liquid Crystal Display-LCD
- 3. NPTEL Videos- NV
- 4. CHART-C
- 5. Student Seminar-SS
- 6. Guest Lecture-GL
- 7. Power point presentation-PPT
- 8. Massive Open Online Course-MOOC
- 9. Industrial visit

## **Teaching Modes**

Subject name	BB	LCD/ D	NV	с	SS	GL	PPT	моос	IV
PTSP	~	~					√		
DLD	~	$\checkmark$	$\checkmark$		~		$\checkmark$		
EDC	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$			$\checkmark$		
SS	$\checkmark$	$\checkmark$					$\checkmark$	$\checkmark$	
ECA	$\checkmark$	$\checkmark$					$\checkmark$		
EMTL	$\checkmark$	$\checkmark$	$\checkmark$				$\checkmark$	$\checkmark$	
AWP	$\checkmark$	$\checkmark$				$\checkmark$	$\checkmark$		
ADC	$\checkmark$	$\checkmark$		$\checkmark$		$\checkmark$	$\checkmark$		
LDIC	$\checkmark$	$\checkmark$			~		$\checkmark$		
CS		$\checkmark$					$\checkmark$		
COOS	$\checkmark$	$\checkmark$		~					
DCN	$\checkmark$	$\checkmark$	$\checkmark$		~		$\checkmark$		
VLSI	$\checkmark$		$\checkmark$			$\checkmark$	$\checkmark$		
MPMC	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	~		$\checkmark$		
DSP	$\checkmark$	$\checkmark$	$\checkmark$		~	$\checkmark$	$\checkmark$		
MWE	$\checkmark$						$\checkmark$		
ESD	$\checkmark$					$\checkmark$	$\checkmark$	$\checkmark$	
CMC	~					$\checkmark$		$\checkmark$	
DIP	~			~		$\checkmark$	$\checkmark$	$\checkmark$	
SC	~	$\checkmark$					$\checkmark$		
RS	~	$\checkmark$			~		$\checkmark$		
WCN	$\checkmark$					$\checkmark$	$\checkmark$		

 Table 2.27 : Teaching Methodologies

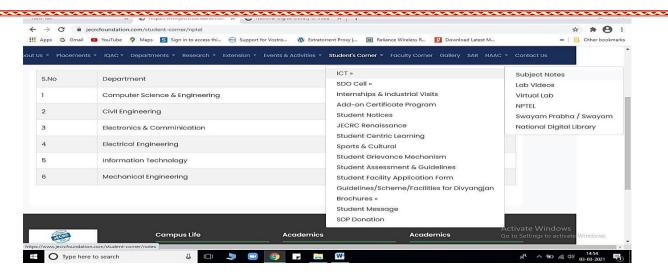
ACADEM		MODE OF TEACHING	PERCENTAG
IC YEAR			E%
2021-2022	Black Boar	rd Teaching	50
		NPTEL LECTURES	10
	ICT	DIGITAL TEACHING THROUGH PPT	5
	BASED	BLOG SPOT	5
	TEACHI	ONLINE TEACHING THROUGH ZOOM OR	20
	NG	GOOGLE MEET	
		TECHNICAL QUIZ	5
		ROLEPLAY	5
2020-21	Black Board Teaching		10
		NPTEL LECTURES	15
	ICT	DIGITAL TEACHING THROUGH PPT	10
	BASED	BLOG SPOT	5
	TEACHI	ONLINE TEACHING THROUGH ZOOM OR	60
	NG	GOOGLE MEET	
2019-20	Black Boar	rd Teaching	65
		NPTEL LECTURES	10
	ICT	DIGITAL TEACHING THROUGH PPT	10
	BASED	BLOG SPOT	5
	TEACHI	ONLINE TEACHING THROUGH ZOOM OR	10
	NG	GOOGLE MEET	

## ICT METHOD:

ICT enabled tools used for student's development in the following manner:

- > Attending classes through Google classroom, Google-meet, zoom, etc.
- Studying via videos provided by the faculty members (provided in the below screen shots)

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- Company Specific Training and placement Drive.
- Industry Institution Interaction.
- Swayam- NPTEL and MOOC videos.

#### • The faculty members used ICT facilities for the following Purposes

- Swayam-NPTEL and MOOC videos.
- Dissemination of video lecturers, video labs/ virtual labs.
- Industry-Institute Interaction (FDP/Conferences/ Webinars).
- ➢ For continuous assessment (For assignments/tutorial etc,.).
- Faculty members have uploaded their Lecture notes, videos, lab practical on their websites and shared the links among the students.

### **BLOG SPOT:**

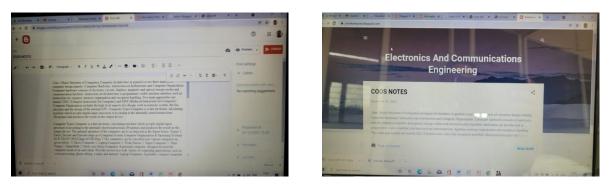
Each faculty members created a blog and uploaded their technical notes to share the knowledge among the students.

Few Faculty members sample Blog Spot details:

## 1.sureshballala.webs.com

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## 2. prashantspise.blogspot.com



## **Audio-Visual Presentations:**

• In many subjects (wherever necessary) audio-visual aids are used. It is a proved fact that audio-visual presentations in the classrooms are more effective in capturing the attention of students.



## **Digital Teaching:**

Every classroom is provided with LED projector. The faculty member can use black board, LED projector judiciously during the lecture delivery.

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3	DELNET	http://164.100.247.26/
4	EKEEDA Video Courses	https://ekeeda.com/catalog/academic
	Remote Access Facilities (For Login	and Password contact Librarian)
5	Library website	https://sriindu.ac.in/library
6	Library OPAC	http://192.168.8.117:8080/newgenlibctxt/
7	DSpace Institutional Repository/LMS	http://192.168.8.220/jspui/
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## **NPTEL Lectures:**

To promote self learning and share knowledge among students.

To enhance the quality of engineering education, on tip compatibility and resources for beyond curriculum.

	VIDEC	D LECTURES -ECE		
S. No.	Course Name	Author/Coordinator	Institute	No. of Lectures
1	CMOS Analog VLSI Design	Prof. A.N. Chandorkar	IIT Bombay	29
2	Adaptive Signal Processing	Prof. Mrityunjoy Chakraborty	IIT Kharagpur	8
3	Adv. Digital Signal Processing - Multirate and wavelets	Prof. V.M. Gadre	IIT Bombay	50
4	Advanced 3G and 4G Wireless Mobile Communications	Prof. Aditya K. Jagannatham	IIT Kanpur	41
5	Advanced Optical Communication	Prof. R.K. Shevgaonkar	IIT Bombay	37
6	Analog Circuits and Systems 1	Prof. K. Radhakrishna Rao	Prof (Retd),IIT Madras.Texas Instruments,India	38
7	Analog IC Design	Dr. Nagendra Krishnapura	IIT Madras	57
8	Basic Electrical Circuits	Dr. Nagendra Krishnapura	IIT Madras	22
9	Basic Electronics	Prof. Chitralekha Mahanta	IIT Guwahati	28
10	Basic Electronics	Prof. Natarajan	IIT Madras	40
11	Broadband Networks: Concepts and Technology	Prof. Abhay Karandikar	IIT Bombay	29
12	Circuits for Analog System Design	Prof. M.K. Gunasekaran	IISc Bangalore	25
13	Coding Theory	Dr. Andrew Thangaraj	IIT Madras	33
14	Communication Engineering	Prof. Surendra Prasad	IIT Delhi	27
15	Digital Circuits and Systems	Prof. S. Srinivasan	IIT Madras	37
16	Digital Communication	Prof. Bikash Kumar Dey	IIT Bombay	32
17	Digital Computer Organization	Prof. P.K. Biswas	IIT Kharagpur	26
18	Digital Image Processing	Prof. P.K. Biswas	IIT Kharagpur	25
19	Digital Signal Processing	Prof. S.C. Dutta Roy	IIT Delhi	43
20	Digital Switching	Prof. Yatindra N Singh	IIT Kanpur	37

21	Digital System design with PLDs and FPGAs	Prof. Kuruvilla Varghese	IISc Bangalore	43
22	Digital Systems Design	Prof. D. Roychoudhury	IIT Kharagpur	40
23	Digital Voice & Picture Communication	Prof. Somnath Sengupta	IIT Kharagpur	40
24	Digital VLSI Systems Design	Prof. Ramachandran	IIT Madras	55
25	Electronics for Analog Signal Processing - 1	Prof. K. Radhakrishna Rao	Prof (Retd),IIT Madras Texas Instruments,India	37
26	Electronics for Analog Signal Processing - II	Prof. K. Radhakrishna Rao	Prof (Retd),IIT Madras.Texas Instruments,India	40
27	Embedded Software Testing	MADHUKESHWARA H M	HCL.	45
28	Error Correcting Codes	Prof. P. Vijay Kumar	11Sc Bangalore	40
29	High Speed Devices and Circuits	Prof. K.N. Bhat	IIT Madras	39
30	Information Theory and Coding	Prof. S.N. Merchant	IIT Bombay	36
31	Linux Programming & Scripting	Anand lyer	Calypto Design Systems	43
32	MEMS and Microsystems	Prof. Santiram Kal	IIT Kharagpur	32
33	Neural Networks and Applications	Prof. Somnath Sengupta	IIT Kharagpur	35
34	NOC:Basic Electrical Circuits	Dr. Nagendra Krishnapura	IIT Madras	143
35	NOC:Digital Circuits and Systems	Prof. Shankar Balachandran	IIT Madras	53
36	Probability and Random Processes	Prof. Mrityunjoy Chakraborty	IIT Kharagpur	33
37	RF Integrated Circuits (CMOS RF Integrated Circuits)	Dr. Shouribrata Chatterjee	IIT Delhi	40
38	Semiconductor Device Modeling	Prof. S. Karmalkar	IIT Madras	38
39	Signals and Systems	Prof. K.S. Venkatesh	IIT Kanpur	35
40	Solid State Devices	Prof. S. Karmalkar	IIT Madras	42
41	Transmission Lines and EM Waves	Prof. R.K. Shevgaonkar	IIT Bombay	45
42	VLSI Data Conversion Circuits	Dr. Shanthi Pavan	IIT Madras	62
43	VLSI Technology/VLSI Design	Dr. Nandita Dasgupta	IIT Madras	30
44	Wireless Communication	Prof. Ranjan Bose	IIT Delhi	29

#### NPTEL TEXT OF VIDEO LECTURES (PDF format)

S.No.	Name of the Course	No. of Lecture
1	Adaptive Signal Processing	41
2	Adv. Digital Signal Processing - Multirate and wavelets	31
3	Advanced 3G and 4G Wireless Mobile Communications	40
4	Advanced Optical Communication	41
5	Analog IC Design	60
6	Basic Electrical Circuits	21
7	Basic Electronics	33
8	Broad Networks Concepts & Technology	32
9	Circuits for Analog System Design	20
10	Coding Theory	3.0
11	Communication Engineering	41
12	Digital Circuits and Systems	40
13	Digital Communication	32
14	Digital Computer Organization	28
15	Digital Image Processing	40
16	Digital Signal Processing	43
17	Digital Switching	35
18	Digital Systems Design	39
19	Digital Voice Picture Communications	33
20	Electronics for Analog Signal Processing - 11	39
21	Electronics for Analog Signal Processing-1	38
22	Error Correcting Codes	42
23	High Speed Devices and Circuits	41
24	Information Theory and Coding	41
25	MEMS and Microsystems	32
26	MEMS and Microsystems	32
27	Neural Networks and Applications	37
28	Pattern Recognition	42
29	Pattern Recognition and Application	39
30	Probability and Random Processes	40
31	RF Integrated Circuits	39
32	Signals and Systems	45
33	Solid State Devices	42
34	Transmission Lines and EM Waves	59
35	VLSI Circuits	55
36	VLSI Data Conversion Circuits	60
37	VLSI Technology	25
38	Wireless Communications	38

#### NPTEL PDF LECTURES (Web Courses) ECE

S. No	Name of the Course
i	Digital communication
2	Digital image processing
3	Digital signal processing
4	Embedded systems
5	Microcontrollers
6	Mircoporcessors & microcontrollers
7	Principles of communication
	Semiconductor devices

SONET VIDEO LECTURES (Society for Networking For Excellence in Technical Education

1	Electronics devices and circuits	30
2	Power electronics	8
3	Switching theory and logic design	30
4	Linear and digital ic applications	24
5	Digital signal processing	8
6	Communication theory	24
7	Solid state physics	4
	TOTAL	128

#### EKEEDA Digital Library Video Lectures es

Self	Learning	Course
	Branch:	ECE

S.No.	Course Name	No. of Videos
1	Electronic Instruments and Measurements	156
2	Digital System Design	247
3	Electronic Devices and Circuits 2	121
4	Microprocessors	95
5	Electromagnetic Engineering	259
6	Microcontroller	68
7	Computer Organization and Architecture	149
8	Microwave Engineering	290
9	Signals and Systems	352
10	VLSI Design	44
11	Digital Signal Processing	124
12	Computer Communication and Networks	57
13	Biomedical Instrumentation	49
14	Power Electronics	55
15	Linear Control System	138
16	Design with Linear Integrated Circuits	98
17	Database Management System	153
18	Embedded System and RTOS	65
19	Analog and Mixed VLSI Design	164
20	Internet of Things	77
21	Microprocessor and its Application	60
22	Principles of Communication Engineering	51
23	Microprocessors and Peripherals Interfacing	55
24	Data Structures Using C	150
25	Advanced Digital Signal Processing	170
26	Microcontroller and its Application	51
27	Basic Electronics	108
	TOTAL	3406

	ECE
1	AIMS Electronics and Electrical Engineering
2	EAI Endorsed Transactions on Industrial Networks and Intelligent Systems
3	Electrical, Control and Communication Engineering
4	Electronics
5	Electronics Letters
6	Facta Universitatis. Series: Electronics and Energetics
7	ICTACT Journal on Communication Technology
8	IEEE Open Journal of Power Electronics
9	IEEE Open Journal of the Communications Society
10	IEEE Open Journal of the Industrial Electronics Society
11	IET Communications
12	IET Optoelectronics
13	IET Power Electronics
14	IET Quantum Communication
15	IOSR Journal of Electronics and Communication Engineering(IOSR-JECE)
16	ISEL Academic Journal of Electronics, Telecommunications and Computers
17	ITB Journal of Information and Communication Technology
18	Journal of Computer Systems, Networks, and Communications
19	Journal of Electronics and Information Science
20	Journal of Electronics, Electromedical Engineering, and Medical Informatics
21	Journal of ICT
22	Journal of Information Systems and Telecommunication
23	Journal of Internet Services and Applications
24	Journal of Low Power Electronics and Applications
25	npj Flexible Electronics
26	Power Electronics and Drives
27	Research Briefs on Information & Communication Technology Evolution
28	Semiconductor Physics, Quantum Electronics & Optoelectronics
29	Solid State Electronics Letters
30	The African Journal of Information and Communication
31	University of Sindh Journal of Information and Communication Technology

22	Journal of Electronics and Communication Engineering and Technology	
23	Journal of Electronics and Communication Engineering Research	
24	Journal of Electronics and Communication Engineering Research	10
25	Journal of Electronics and Communication Systems	
26	Journal of Electronics and Information Science	
27	Journal of Electronics, Communication and Instrumentation Engineering Research	
28	Journal of Embedded Systems	
29	Journal of Embedded Systems and Processing	-
30	Journal of Engineering	
31	Journal of Engineering and Technology	
32	Journal of Engineering Research	
33	Journal of ICT Research and Applications	-
34	Journal of IEMEK	
35	Journal of Image and Signal Processing	10
36	Journal of Image Processing Theory and Applications	
37	Journal of Information and Communication Convergence Engineering	1
38	Journal of Information and Communication Technology	
39	Journal of Information and Telecommunication	2
40	Journal of Information Systems and Communication	
41	Journal of Information Systems and Telecommunication	
42	Journal of Instrumentation and Innovation Sciences	
43	Journal of Media and Communication Studies	
44	Journal of Microwaves, Optoelectronics and Electromagnetic Applications	
45	Journal of Mobile Technologies, Knowledge and Society	
46	Journal of Modeling, Simulation, Identification and Control	
47	Journal of Multi Disciplinary Engineering Technologies	
48	Journal of Optical Fibre Communications	
49	Journal of Optoelectronics Engineering	1
50	Journal of Programmable Devices, Circuits, and Systems	1
51	Journal of Radio and Television Broadcast	
52	Journal of Sensor and Actuator Networks	
53	Journal of Sensor Science and Technology	
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57	Journal of Signal and Image Processing	
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64	Journal of Technological Advances and Scientific Research	
65	Journal of Telecommunication Study	
66	Journal of Telecommunications and Information Technology	

67	Journal of Telecommunications System and Management
68	Journal of the Institute of Electronics and Information Engineers
69	Journal of the Korea Institute of Information and Communication Engineering
70	Journal of Theoretical and Applied Electronic Commerce Research
71	Journal of VLSI Design and Signal Processing
72	Journal of Wireless Mobile Networks, Ubiquitous Computing, and Dependable Applications
73	Journal of Wireless Networking and Communications
74	ABC Journal of Advanced Research
75	Acta Electrotechnica et Informatica
76	Active and Passive Electronic Components
77	Advanced Signal Processing
78	Advances in Electronics
79	Advances in Image and Video Processing
80	Advances in Microelectronic Engineering
81	Advances in Microwave and Wireless Technologies
82	Advances in Networks
83	Advances in Nonlinear Optics
84	Advances in Optical Technologies
85	Advances in Radio Science
86	Advances in Signal Processing
87	Advances in Wireless Communications and Networks
88	American Communication Journal
89	American Journal of Circuits, Systems and Signal Processing
90	American Journal of Circuits, Systems and Signal Processing
91	American Journal of Electromagnetics and Applications
92	American Journal of Embedded Systems and Applications
93	American Journal of Engineering and Technology Management
94	American Journal of Mobile Systems, Applications and Services
95	American Journal of Networks and Communications
96	American Journal of Sensor Technology
97	American Journal of Signal Processing
98	American Journal of Vehicle Design
99	American Research Journal of Electronics and Communication Engineering
00	Application of Information and Communication Technology
01	APSIPA Transactions on Signal and Information Processing
02	Automatika: Journal for Control, Measurement, Electronics, Computing and Communications
03	Bahria University Journal of Information and Communication Technologies
04	BHEL Journal
05	BIOINFO Sensor Networks
106	Bonfring International Journal of Advances in Image Processing
07	Bonfring International Journal of Research in Communication Engineering
08	CED: Communications Engineering and Design
09	Cell Signalling and Trafficking

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	NATIONAL JOURNALS	
1	Journal of Analog and Digital Communications	
2	Journal of Analog and Digital Devices	
3	Journal of Bioelectronics and Nanotechnology	
4	Journal of Communication and Information Technology	
5	Journal of Communication Engineering and its Innovations	
6	Journal of Communication Technology and Human Behaviors	
7	Journal of Communication, Navigation, Sensing and Services	
8	Journal of Communications	
9	Journal of Control and Instrumentation Engineering	
10	Journal of Control Engineering and Technology	
11	Journal of Control Science and Engineering	
12	Journal of Control Science and Engineering	
13	Journal of Control System and Control Instrumentation	
14	Journal of Controller and Converters	
15	Journal of Design Communication	
16	Journal of Digital Integrated Circuits in Electrical Devices	
17	Journal of Electronic Design Engineering	
18	Journal of Electronic Publishing	
19	Journal of Electronic Research and Application	
20	Journal of Electronic Science and Technology	
21	Journal of Electronics	

#### DELNET E-JOURNALS NATIONAL

ECE

157	ICT Express
158	ICTACT Journal on Communication Technology
159	ICTACT Journal on Image and Video Processing
160	IEEE Journal on Exploratory Solid-State Computational Devices and Circuits
161	IEEE Photonics Journal
162	IEEE Solid-State Circuits Letters
163	IEEE Technical Committee on Learning Technology
164	IEESE International Journal of Science and Technology
165	IEICE Electronics Express
166	Image Processing on Line
167	Indian Journal of Science Communication
168	Industrial Safety News
169	Information Research: An International Electronic Journal
170	Information Systems and Signal Processing Journal
171	Information Systems Electronic Journal
172	Instrumentation and Equipments
173	Instruments
174	Interactive Multimedia Electronic Journal of Computer-Enhanced Learning
175	KOME : International Journal of Pure Communication Inquiry
176	Majlesi Journal of Telecommunication Devices
177	Media and Communication
178	Micro
179	MIT International Journal of Electronics and Communication Engineering
180	Mobile Information Systems
181	Modern Electronic Technology
182	Nano Vision
183	Natural Products and Resources Repository
184	Nature Electronics
185	Network and Communication Technologies
186	Northwestern Journal of Technology and Intellectual Property
187	Offshore Engineer
188	Open Journal of Circuits and Systems
189	Open Signal Processing Journal
190	Palaeontologia Electronica
191	Pepperdine Journal of Communication Research
192	Printed Circuit Design and Manufacture
193	Printed Circuit Fabrication
194	Progress In Electromagnetics Research
195	Progress In Electromagnetics Research B
196	Progress In Electromagnetics Research C
197	Progress In Electromagnetics Research Letters
198	Progress in Electromagnetics Research M
199	Radio Electronics, Computer Science, Control
200	RCR Wireless News
201	Recent Advances in Communications and Networking Technology

202	Recent Patents on Signal Processing
203	Research Journal of Modeling and Simulation
204	Research Letters in Electronics
205	Research Letters in Signal Processing
206	Research Open Journal of Wireless Networks and Applications
207	Revista Eletrônica Teccen
208	Scholarly and Research Communication
209	Science Journal of Circuits, Systems and Signal Processing
210	Scientific Bulletin of the Politehnica University of Timisoara : Transactions on Electronics and Communications
211	Scientific Journal of Control Engineering
212	Scientific Review
213	Security and Communication Networks
214	Sensors
215	Sensors and Transducers Journal
216	Signal and Image Processing
216	Signal and image Processing Signal Processing : An International Journal
218	Signal Processing Research
219	Sound and Video Contractor
20	SSRG International Journal of Electronics and Communication Engineering
20	SSRG International Journal of Electronics and Communication Engineering SSRG International Journal of VLSI and Signal Processing
	Telecommunications and Electronics
22	
24	Television This Week in Consumer Electronics
25	Turkish Journal of Fuzzy Systems
26	Universal Journal of Communications and Network
27	Universal Journal of Control and Automation
28	Universal Journal of Engineering Science
229	Vehicle Engineering
130	VLSI Design
231	Voice and Data
232	Wireless and Mobile Technologies
133	Wireless Communications and Mobile Computing
134	Wireless Engineering and Technology
135	Wireless Sensor Network
236	Wireless Week
237	World Journal Control Science and Engineering
138	World Research Journal of Telecommunications Systems
239	World Scientific Research
240	WSEAS Transactions on Circuits and Systems
241	WSEAS Transactions on Signal Processing
242	IOSR Journal of Electronics and Communication Engineering
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244	ISRN Communications and Networking
245	ISBN Electronics

46	ISRN Sensor Networks ISRN Signal Processing
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	INTERNATIONAL JOURNALS
1	International Journal for Research in Electronics and Communication Engineering
2	International Journal for Research in Electronics and Electrical Engineering
3	International Journal for Research in Science Engineering and Technology
4	International Journal of ACM Jordan
5	International Journal of Ad hoc, Sensor and Ubiquitous Computing
6	International Journal of Advanced Electronics and Communication Engineering
7	International Journal of Advanced Information in Engineering and Technology
8	International Journal of Advanced Research in Electronics, Communication and Instrumentation Engineering and Development
9	International Journal of Advanced Scientific and technical Research
10	International Journal of Advanced Scientific Research
11	International Journal of Advances in Electronics and Computer Science
12	International Journal of Advances in Embedded Systems
13	International Journal of Advances in Engineering and Scientific Research
14	International Journal of Advances in Signal and Image Sciences
15	International Journal of Advances in Telecommunications, Electrotechnics, Signals and Systems
16	International Journal of Applied Electronics in Physics and Robotics
17	International Journal of Applied Engineering Research, Dindigul
18	International Journal of Chaos, Control, Modelling and Simulation
19	International Journal of Circuits and Electronics
20	International Journal of Circuits, Systems and Signal Processing
21	International Journal of Communication and Signal Processing
22	International Journal of Communication Network and Security
23	International Journal of Communication Networks and Information Security
24	International Journal of Communication Technology for Social Networking Services
25	International Journal of Communications
26	International Journal of Communications
27	International Journal of Communications
28	International Journal of Communications, Network and System Sciences
29	International Journal of Control and Automation
30	International Journal of Control Systems and Robotics
31	International Journal of Current Research in Embedded System and VLSI Technology
32	International Journal of Design, Analysis and Tools for Integrated Circuits and Systems
33	International Journal of Digital Communication and Networks
34	International Journal of Electrical, Electronics and Computer Systems
35	International Journal of Electrical, Electronics and Data Communication
36	International Journal of Electronic Engineering and Computer Science

78	International Journal of Networks and Communications
79	International Journal of Novel Research in Electronics and Communication
80	International Journal of Optoelectronic Engineering
81	International Journal of Radio Frequency Identification and Wireless Sensor Networks
82	International Journal of Recent Advances in Signal and Image Processing
83	International Journal of Recent Trends in Engineering
84	International Journal of Reconfigurable and Embedded Systems
85	International Journal of Research in Electronics and Communication Technology
86	International Journal of Research in Modern Engineering and Emerging Technology
87	International Journal of Review in Electronics and Communication Engineering
88	International Journal of Scientific and Engineering Research
89	International Journal of Scientific Engineering and Technology
90	International Journal of Scientific Research and Reviews
91	International Journal of Scientific Research Engineering and Technology
92	International Journal of Sensor and its Applications for Control Systems
93	International Journal of Sensor Networks and Data Communications
94	International Journal of Sensors and Sensor Networks
95	International Journal of Signal Processing
96	International Journal of Signal Processing, Image Processing
97	International Journal of Smart Sensors and Ad Hoc Networks
98	International Journal of Vehicular Technology
99	International Journal of Video and Image Processing and Network Security
100	International Journal of VLSI Design and Communication Systems
101	International Journal of Wireless and Microwave Technologies
102	International Journal of Wireless and Mobile Networks
103	International Journal of Wireless Communication
104	International Journal of Wireless Communications and Mobile Computing
105	International Journal of Wireless Communications, Networking and Mobile Computing
106	International Journal on AdHoc Networking Systems
107	International Journal on Applications in Information and Communication Engineering
108	International Journal on Emerging Trends in Electronics and Communication Engineering
109	International Journal on Recent Advances in Industrial Electronics and Electrical Engineering
110	International Journal on Recent Innovation in Instrumentation and Control Engineering
111	International Journal on Wireless, Networking and Mobile Communication Innovations
112	International Research Journal of Electronics and Computer Engineering
113	International Research Journal of Telecommunications and Information Technology
114	International Transactions on Electronics and Communication Engineering

37	International Journal of Electronics and Communication Engineering and Technology
	International Journal of Electronics and Communication Engineering Research and
38	Development
39	International Journal of Electronics and Telecommunications
40	International Journal of Electronics Communication and Computer Engineering
41	International Journal of Electronics Communication and Computer Technology
42	International Journal of Electronics Signals and Systems
43	International Journal of Electronics, Communication and Instrumentation Engineering Research and Development
44	International Journal of Electronics, Communication and Soft Computing Science and Engineering
45	International Journal of Embedded Systems and Applications
46	International Journal of Emerging Trends in Engineering and Development
47	International Journal of Engineering and Applied Sciences
48	International Journal of Engineering and Technical Research
49	International Journal of Engineering and Technology
50	International Journal of Engineering and Technology
51	International Journal of Engineering Research
52	International Journal of Engineering Research and Science
53	International Journal of Engineering Research in Electronics and Communication Engineering
54	International Journal of Fuzzy Logic and Intelligent Systems
55	International Journal of Image Processing and Vision Sciences
56	International Journal of Image Processing and Visual Communication
57	International Journal of Image, Graphics and Signal Processing
58	International Journal of Informatics and Communication Technology
59	International Journal of Information and Communication Technology Research
50	International Journal of Information and Electronics Engineering
51	International Journal of Information Engineering and Electronic Business
52	International Journal of Innovations in Engineering and Technology
53	International Journal of Innovative Research in Electronics and Communications
54	International Journal of Innovative Technology and Creative Engineering
55	International Journal of Instrumentation and Control Systems
56	International Journal of Instrumentation and Measurement
57	International Journal of Instrumentation Science
58	International Journal of Instrumentation, Control and Automation
59	International Journal of Interactive Mobile Technologies
70	International Journal of Latest Trends in Engineering and Technology
	International Journal of Managing Public Sector Information and Communication
71	Technologies
72	International Journal of Massive Parallel Processing and Grid Computing
73	International Journal of Microwave Science and Technology
74	International Journal of Mobile Network Communications and Telematics
75	International Journal of Modern Communication Technologies and Research
76	International Journal of Nano Device, Sensor and Systems
77	International Journal of Network and Communication Research

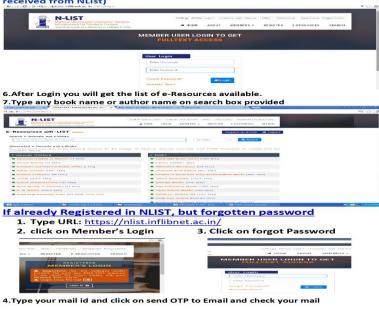




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#### HOW TO ACCESS J-GATE FULL TEXT JOURNALS 1. Login with URL http://www.jgateplus.com and click on go button

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- 1. Type url http://delnet.in
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Step 4: Click on Signup and create your account. Use Referral Code -EAPSRI22

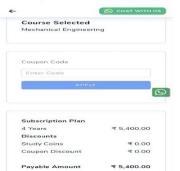
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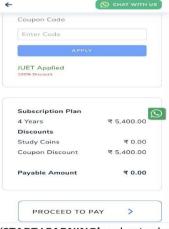


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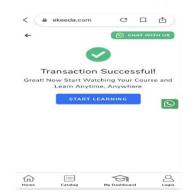
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   For Subject wise books Click Tag button on the following Screen

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## **Student Seminar**

Subject Teacher is taking seminar on the covered topics from the students. Two times in a semester seminars are planned by the Faculty member. Each topic from the subject will allotted by the faculty member to the individual student.





## **Guest Lectures**

Guest lecturers provide an important educational experience for students based on their real-world life experiences. Students get to see the insight and perspective of the guest lecturers' specific field. The format can enable students to interact with professionals in formal and informal settings.



## Virtual Classroom Supports and Video Conferencing using Zoom Meeting Demonstrative Mode : Objective:

- The main objective is to increase the quality of Teaching Learning Processing by incorporating ICT modes like, online classes and webinars.
- Zoom Meeting and Google Classroom that aims to simplify creating virtual classroom, interacting and distributing the materials in a paperless way.
- > This practice is to share needy resources between teachers and students.

#### The Context:

- Virtual Classroom supports and video conferencing using zoom meeting impacts to increase the students learning.
- > Teachers can schedule the task dynamically and have the option to attach files to the assignment which students can view, edit, or get an individual copy.
- Students can create their own study materials, Assignment reports and their innovations effectively.
- Teachers have the option to monitor the progress of each student. It allows the students to review the classes, assignments and other tasks for detailed understanding.
- Time Management, Evaluation, Assessment Report generation and remedial process become very easy with these types of ICT modes.

#### **Evidence of Success:**

- > The method helped all students for referring of syllabus, topics covered, important questions in the theory exam, previous year's question papers etc.
- Students can access it from their home or where ever and whenever they are free.
- Progress will be monitored timely.

#### a) Digital Poster Presentation By Students :

#### **Objective:**

- To cultivate out of box thinking, such as inter-disciplinary thinking, synthesizing knowledge of different disciplines and to cope with complexity among students.
- > To ensure the knowledge acquiring among the students community.
- > To make them understand the emerging concepts from known concepts.
- > To stimulate in-depth learning of the concepts and understanding of various topics.

#### The Context:

- This event is to provide an opportunity for the students to share their knowledge with the peer group members.
- The digital poster is prepared in advance with desired technical framework to share the knowledge on inter-disciplinary fields.
- > This activity will lead to encourage the students to participate in symposia, technical presentation.

#### The Practice:

- > The schedule is prepared and given to the faculty members to prepare and present the acquired
- > This presentation is recorded for review and template for the other participants.

#### **Evidence of Success:**

Outcome of this practice enables the students to

- Participate in technical presentation
- Conferences
- Project Expo
- Participate in skill oriented competitions



Subject name: Java programming Year: II year II semester



Subject name: Artificial Intelligence Year: III year I semester

#### b) Demonstrative Mode

Demonstration is a teaching method used to communicate an idea with the aid of visuals such as flip charts, posters, power point, etc. A demonstration is the process of teaching someone how to make or do something in a step-by-step process. As you show how, you "tell" what you are doing.

To achieve success in demonstration method the teacher need to do three things which are necessary for this method.

- > The object displayed for demonstration should visible to all students
- The demonstrator should use clear language and step by step procedure so the students understand the concept of demonstration easily.
- The pupils should be given the chance to ask question from teachers to clear their concept and difficulties about the topic.



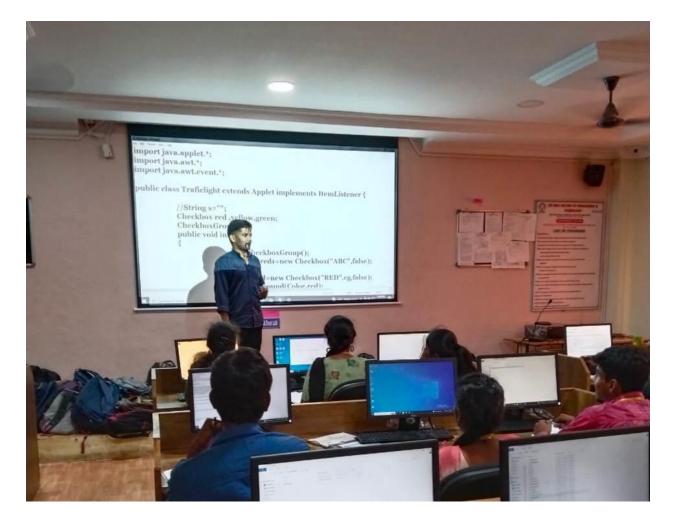
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#### c) Experimental Based Teaching

The experimental method is usually taken to be the most scientific of all methods, the 'method of choice'. The main problem with all the non-experimental methods is lack of control over the situation. The experimental method is a means of trying to overcome this problem. The experiment is sometimes described as the cornerstone of psychology: This is partly due to the central role experiments play in many of the physical sciences and also to psychology's historical

view of itself as a science. A considerable amount of psychological research uses the experimental method.

An experiment is a study of cause and effect. It differs from non-experimental methods in that it involves the deliberate manipulation of one variable, while trying to keep all other variables constant.



Subject name: Java Programming Year: II year I semester

#### d) ICT Mode of Teaching-Learning

Information and Communications Technology (ICT) can impact student learning when teachers are digitally literate and understand how to integrate it into curriculum.

Colleges use a diverse set of ICT tools to communicate, create, disseminate, store, and manage information.ICT has also become integral to the teaching-learning interaction, through such approaches as replacing chalkboards with interactive digital whiteboards, using students' own smartphones or other devices for learning during class time, and the "flipped classroom" model

where students watch lectures at home on the computer and use classroom time for more interactive exercises.

#### Edmodo:

Using Edmodo, students and teachers can reach out to one another and connect by sharing ideas, problems, and helpful tips.

Name	Edmodo code	Blog address	
Dr.C. Kotteeswaran	vn8ygg	kotteesscse.blogspot.com	
A. Chitty	4wewvy	chittycse.blogspot.com	
K. Raju	7zx59w	rajusciet516.blogspot.com	
E. Pavithra	hwfzm6	pavithra6.blogspot.com	
V. Kiranmai	h9w622	kiranmaivu.blogspot.com	
A. Rangamma	zb82gy	ramyaaduri.blogspot.com	
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R. Vinod Kumar	6awg59	vinodrathod9.blogspot.com	
G. Akhila	a5ntr6	akilagouni94.blogspot.com	
P. Chaithanya	3tmdhv	chaithanya1.blogspot.com	
B. Sai Sree	bw2vfp	saisree12.blogspotcom	
G. Swarnalatha	j7ge3q	gundalaswarna.blogspot.com	
K. Naveen Chakkravarthy	s6ditq	naveen8906blogspot.com	
P. Sneha	7b5rxx	snehap2.blogspot.com	
P. Hymavathi	4p8acj	hymavathi1.blogspot.com	
T. Pavan Kumar	29h6fk	pavancse522.blogspot.com	
M. Swathi Reddy	f7bqnq	swathireddy5.blogspot.com	

#### e) Modern Tools:

"The teaching method which focuses more on teaching the students for improving their intellect behavior by using various new and innovative ideas rather than making them recite the syllabus to clear the examination with the same old style is **Modern Teaching Methods** in simple words."

#### **Advantages of Modern Teaching Methods:**

- Unlike traditional teaching methods, modern teaching methods are more interactive and keep students intact. It maintains the interest of students by animations and videos.
- > The visual medium is way better than any other medium to give instructions. It helps to memorize the concept fast and for a more extended period than reading.
- Modern teaching methods are less time-consuming. Teachers take less time to cover the syllabus. Writing on the blackboard is not required.
- Blackboard explanation of content is less explanatory than a representation of videos and animations used in the modern teaching methods.

#### f) Think pair Share

#### Introduction:

Collaborativelearningisaninstructionalmethodinwhichstudent'steamtogetheronanassign ment. In this method, students can produce the individual parts of a larger assignmentindividually and then "assemble" the final work together, as a team. Whether for a semester-long project with several outcomes or a single question during class, collaborative learning

canvarygreatlyinscopeandobjectives.Cooperativelearning,sometimesconfusedwithcollaborative learning, describes amethod where students work together in small groups on astructured activity. Students are individually accountable for their work but also for the work ofthegroupasawhole, andboth productsareassessed.

NameoftheFaculty:Dr.S.KishoreVerma	Designation:Assoc.Prof	Subject:Mchine Learning
Year/Semester: III/II	Section:A	Topic:Decision Tree
Nameoftheactivity:	Date: 18-04-2022	No.ofstudentsattended:24
Think-PairShare		

#### **OBJECTIVE OF THE ACTIVITY:**

To discuss the various functions of the decision tree and its functions.

- > To understand how to construct the decision tree
- > To make students understand complex concepts.
- > To develop oral communication skills, Fosters and develops interpersonal relationships.

#### **EXECUTION PLAN:**

- ➢ Given higher-level questions about the topic to the students
- ➢ Gave sometime for thinking the answer for questions
- Now formed teams of team size2
- ➢ Gave sometime to share the ideas themselves
- They shared their ideas to whole class
- ▶ Finally 80% of the groups have completed the task successfully

#### **Expected Outcomes:**

The students can be able to

- Generate valid routings and invalid routings
- > Analyze the different types of maintenance checks and maintenance hub
- Develops higher level thinking skills
- Builds self esteem in students

#### g) In-ClassTeams

#### Introduction:

In Class Teams is anything course-related that all students in a class session are required to do, other than simply watching, listening and taking notes. Active Learning shifts focus from what the instructor should deliver to what the students should be able to do. Compared to students taught traditionally, students taught in a manner that incorporates small-group learning achieve higher grades, learn at a deeper level, retain information longer, are less likely to drop out of school, acquire greater communication and teamwork skills, and gain a better understanding of the environment in which they will be working as professionals.

NameoftheFaculty: Ms.R.Sowmya	<b>Designation</b> :Asst. Prof	Subject:Computer Networks
Year/Semester:III/I	Section:C	Topic: TCP/IP
Name of the activity: In Class Teams PeerEvaluation	Date:21-08-2021	No.ofstudentsattended:45

#### **Objective of the activity:**

- 1. Students will have an opportunity to discuss the concept of CSMA/CD team effectively.
- 2. To understand the concept of IEEE 802.11
- 3. To demonstrate the concept of domain name space.

#### **EXECUTION PLAN:**

Timemanagement:Class time:40min

a.	Summarized the TCP/IP concepts	03min
b.	Creating team with 4-6size	01 min
c.	Distribution or announcementof Questions	02min.
d.	Studentas brainstorms and solvingbyy team	10min.
e.	Student Should solve final question	04min

#### **Expected Outcomes:**

The students can be able to

- Students can express their views and share knowledge
- > It's an interactive session and teamwork.
- Students can gain more knowledge and improves the critical thinking on the concept Assessment:

#### A550551110111.

1. Assessment is carried out by peer evaluation.

The activity was reached 85% of the groups have completed the task successfully, the activity can be considered as successful.

#### h) FlippedClassroom:

#### **Introduction:**

Instructional environments that allow for students to be more actively engaged with course material are more likely to lead to greater learning gains. The literature in engineering and science education continues to encourage faculty and instructors to use class exercises that require students to be actively engaged in the course material, as opposed to being passive recipients of information.

Engineering students benefit from an active and interactive classroom environment where they can be guided through the problem solving process. Typically faculty members spend class time presenting the technical content required to solve problems, leaving students to apply this knowledge and problem solve on their own at home. There has recently been a surge of the flipped, or inverted, classroom where the technical content is delivered via online videos before class. Students then come to class prepared to actively apply this knowledge to solve problems or do other activities. In this paper, recommendations are made for applying this educational technique to large engineering classrooms.

Name of the Faculty:A.Rangamma	Designation:Asst.Prof	Subject: Data Structures
Year/Semester:II/I	Section:C	Topic: Binary Search Tree
Name of the activity: Flipped Class Room	Date:9th Oct2021	No.ofstudents attended:48

#### **Objective of the activity:**

- ▶ In order to motivate the students to learn the concepts thoroughly.
- Student learns the theories from the videos, can use the theories for discussions and assignments in class.

#### **Execution Plan:**

#### Time management: Class time: 20mins

- a. Students are provided with the learning material (Video Link, text book page numbers) of the topic to be covered and a time of 4days for their preparation for the activity.
- b. On the day of implementation of activity topics are given as per their seating in the class (it was observed students in a same desk are writing different topics) and 20 minutes is given to think and write about the topic.
- c. After 20minutes the scripts were collected in chronological order (rollnumber).

#### Plan of action:

Students were asked to go through the learning material and 2day's time was given for preparation. Every individual will be given a different question or numerical as per higher looms level and time of 15minutes is given to complete the task.

#### **EXPECTED OUTCOMES:**

It's be easier to get the points from videos than from lecture notes.

- 1. This method makes the subject more engaging than the regular method.
- 2. The flipped classroom method will increase the knowledge and understanding of the course area.

#### i) Group Writing Assignments

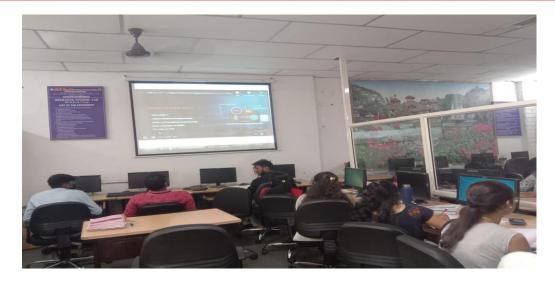
It would be truly surprising to find an author whose writing, even if it was completed independently, had not been influenced at some point by discussions with friends or colleagues. The range of possible collaboration varies from a group of coauthors who go through each portion of the writing process together, writing as a group with one voice, to a group with a primary author who does the majority of the work and then receives comments or edits from the co-author.

#### j) NPTEL Lectures:

- > To promote self-learning and share knowledge among students.
- > To enhance the quality of engineering education and resources for beyond curriculum.



Subject name: Complier Design Year: III year II semester



Subject name: OOPs Using C++ Year: II year I semester

#### k) Chart Work Presentation:

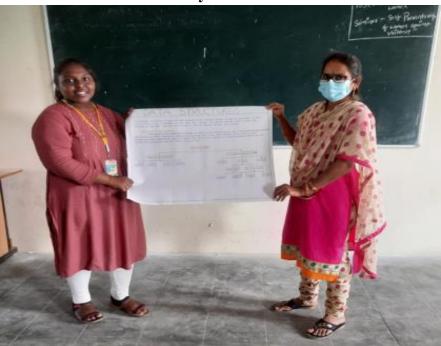
A common, effective teaching method is to use visual presentations in a classroom. Charts and diagrams are especially helpful, as they enable students to see ideas visually laid out in an organized way. Also, visual tools can help the students process content and to make connections more easily. Teachers can purchase or make charts to display around the room, or create a chart as part of a lesson. These tools are especially useful in elementary school, where children tend to have shorter attention spans.



Subject Name: Software Engineering Year: III year I semester



Subject Name: Data Structure Year: II year I semester



Subject name: Data structure Year: II year I semester

#### I) Animation Video Of Lecture:

Animation occurs when images, drawings, or pictures are placed and played in sequence to create an illusion of movement. The use of animation in education is increasing in popularity with new trends in education. The fact that it eases the learning of complex concepts contributes to making it a popular choice among educators and learners. Animation brings learning to life and applies to nearly all subjects. Consequently, this allows educators to explain different concepts with the help of visual representations. Also, it is a fun learning approach that promotes experiential learning.



Subject name: Machine Learning Year: III year II semester

#### m) Group Discursion:

A group discussion tests the teamwork and communication skills of candidates. A group discussion involves a discussion on a given topic with other candidates, usually with similar experience and educational qualifications. Performing well in a group discussion helps you to get noticed and practicing for one improves your public speaking skills.





Subject name: Artificial Intelligence Year: III year I semester

**Subject name: Internet of things**