SRI INDU COLLEGE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

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	C	SS	GL	PPT	MOOC	IV
PTSP	√	√					√		
DLD	√	√	√		√		√		
EDC	√	√	√	√			√		√
SS	√	√	√				√	√	
ECA	√	√					√		
EMTL	√	√	√				√	√	
AWP	√	√	√		√	√	√	√	√
ADC	√	√		√		√	√		
LDIC	√	√			√		√		
CS	√	√					√		
COOS	√	√	√	√					
DCN	√	√	√		√		√		
VLSI	√		√			√	√		√
MPMC	√	√	√	√	√		√		
DSP	√	√	√		√	√	√		
MWE	√					√	√		
ESD	√					√	√	√	
CMC	√					√		√	√
DIP	√	√	√	√		√	√	√	
SC	√	√					√		
RS	√	√			√		√		
WCN	√					√	√		√

Teaching Methodologies

ACADEMIC YEAR	MODE OF TEACHING		PERCENTAGE%
2021-2022	Black Board Teaching		50
	ICT BASED TEACHING	NPTEL LECTURES	10
		DIGITAL TEACHING THROUGH PPT	5
		BLOG SPOT	5
		ONLINE TEACHING THROUGH ZOOM OR GOOGLE MEET	20
		TECHNICAL QUIZ	5
		ROLEPLAY	5
2020-21	Black Board Teaching		10
	ICT BASED TEACHING	NPTEL LECTURES	15
		DIGITAL TEACHING THROUGH PPT	10
		BLOG SPOT	5
		ONLINE TEACHING THROUGH ZOOM OR GOOGLE MEET	60
2019-20	Black Board Teaching		65

		NPTEL LECTURES	10
	ICT BASED TEACHING	DIGITAL TEACHING THROUGH PPT	10
		BLOG SPOT	5
		ONLINE TEACHING THROUGH ZOOM OR GOOGLE MEET	10

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)

> 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

2. prashantspise.blogspot.com

Title

COOS NOTES

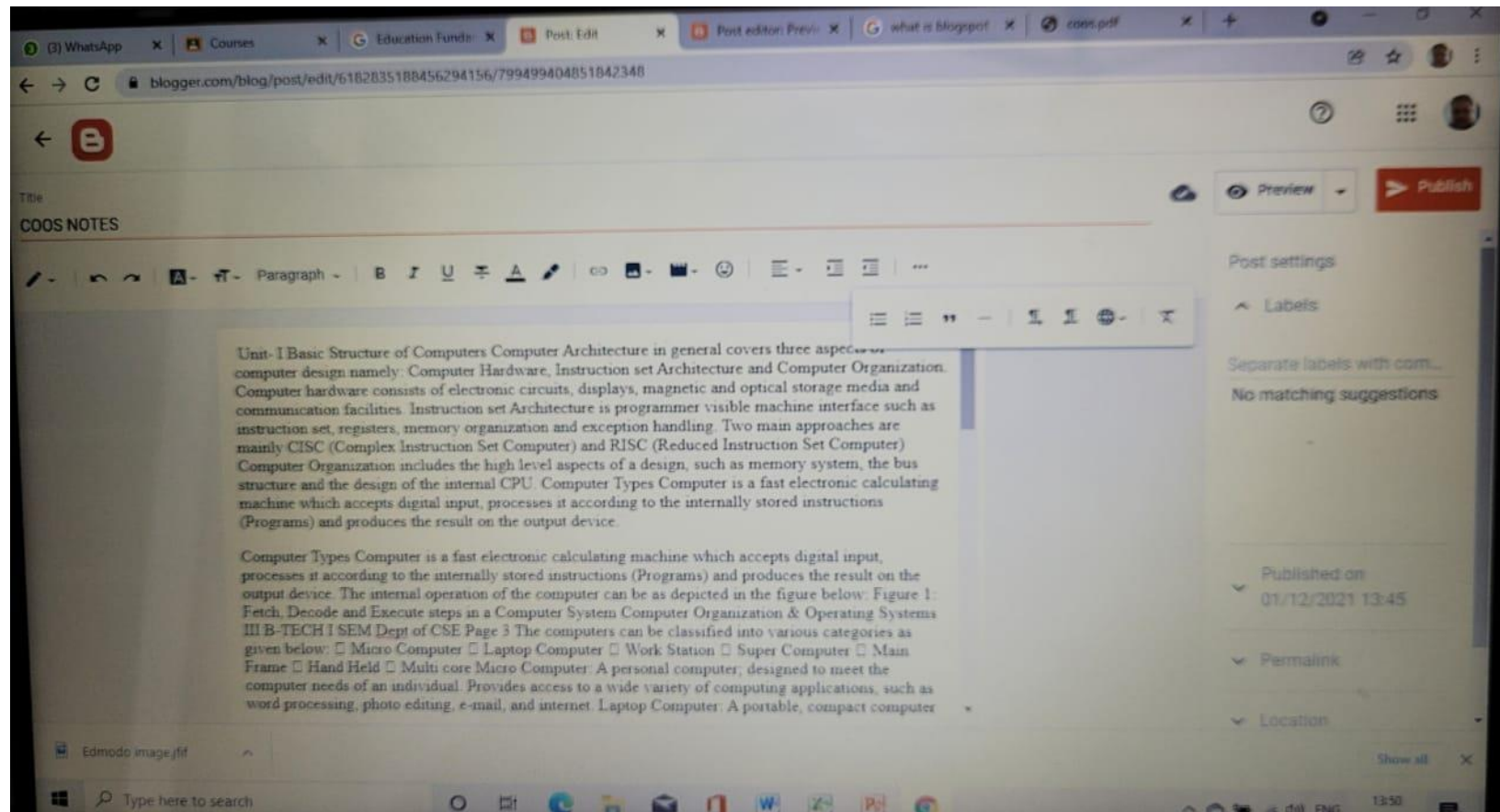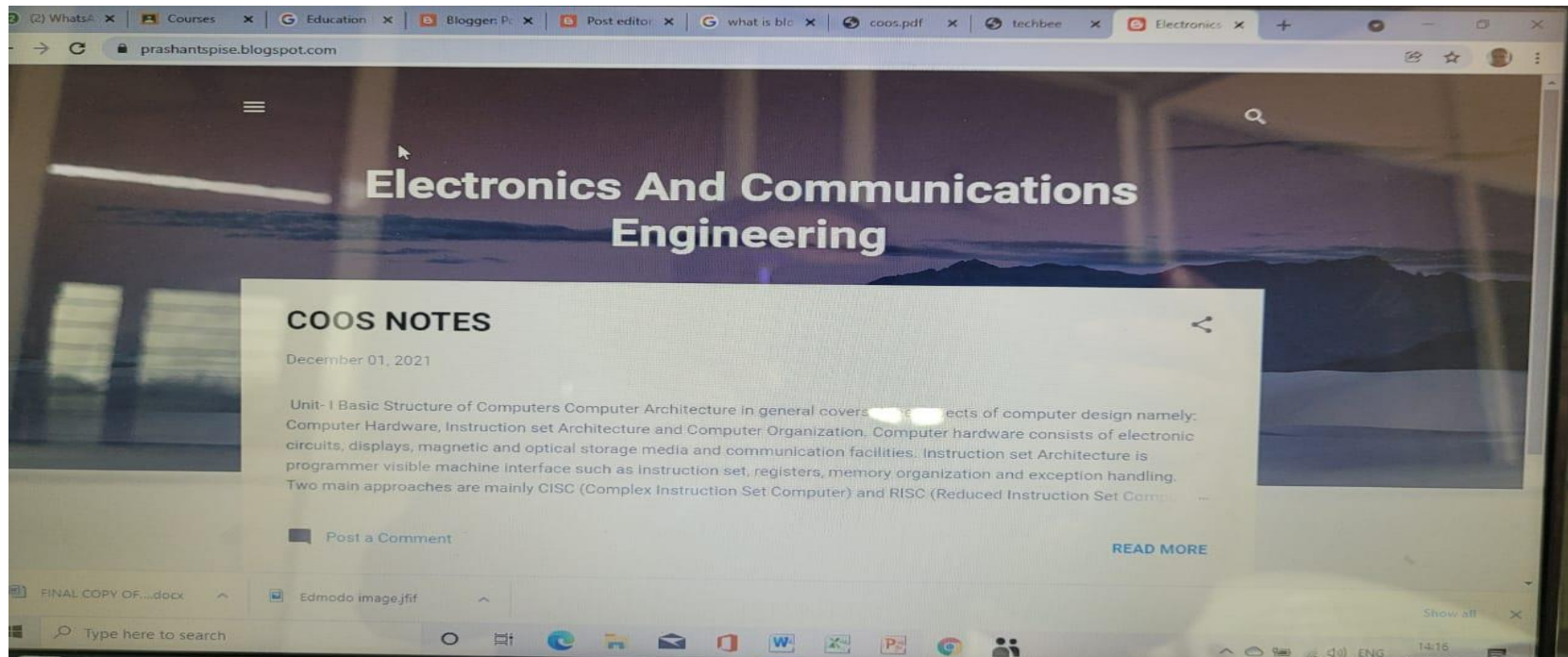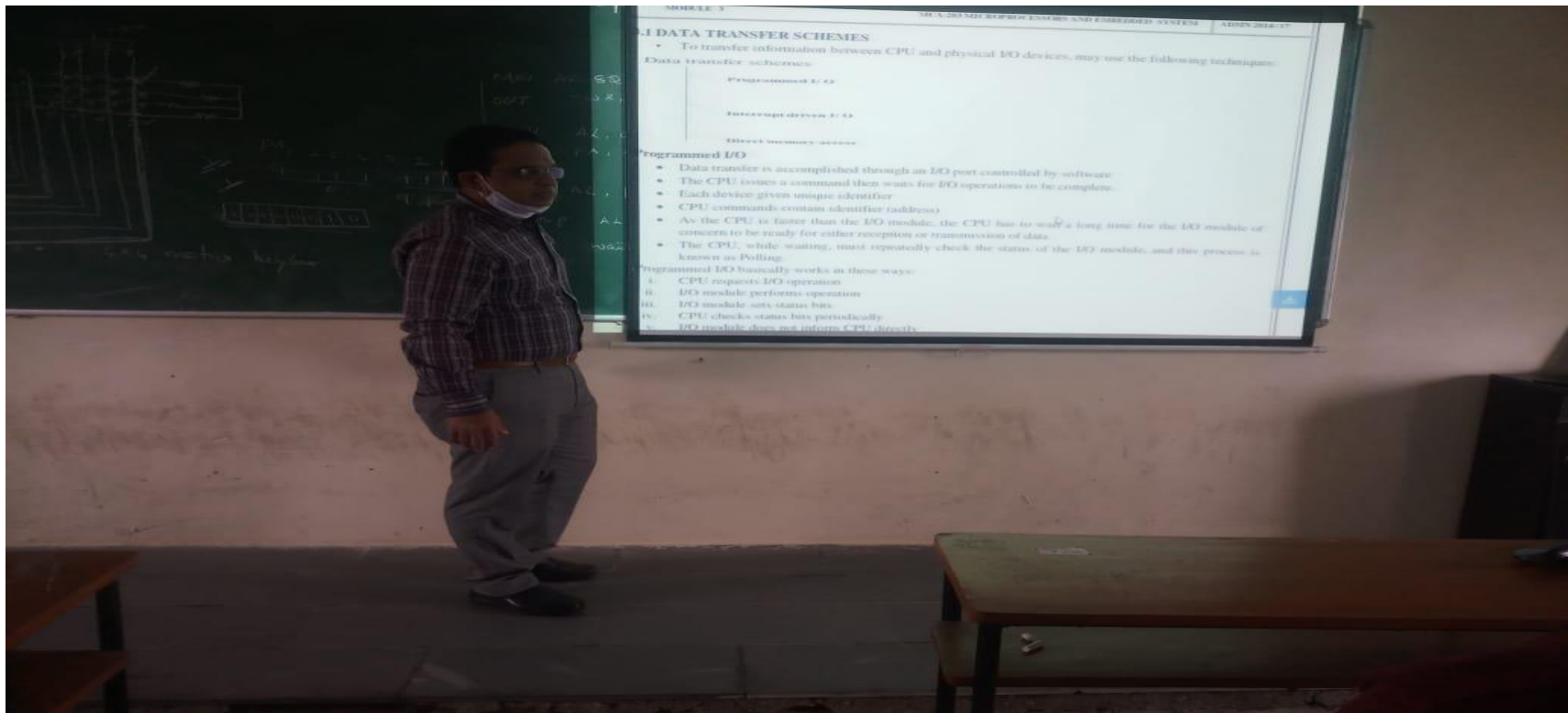Unit- I Basic Structure of Computers Computer Architecture in general covers three aspects of computer design namely: Computer Hardware, Instruction set Architecture and Computer Organization. Computer hardware consists of electronic circuits, displays, magnetic and optical storage media and communication facilities. Instruction set Architecture is programmer visible machine interface such as instruction set, registers, memory organization and exception handling. Two main approaches are mainly CISC (Complex Instruction Set Computer) and RISC (Reduced Instruction Set Computer) Computer Organization includes the high level aspects of a design, such as memory system, the bus structure and the design of the internal CPU. Computer Types Computer is a fast electronic calculating machine which accepts digital input, processes it according to the internally stored instructions (Programs) and produces the result on the output device.

Computer Types Computer is a fast electronic calculating machine which accepts digital input, processes it according to the internally stored instructions (Programs) and produces the result on the output device. The internal operation of the computer can be as depicted in the figure below: Figure 1: Fetch, Decode and Execute steps in a Computer System Computer Organization & Operating Systems III B-TECH I SEM Dept of CSE Page 3 The computers can be classified into various categories as given below: □ Micro Computer □ Laptop Computer □ Work Station □ Super Computer □ Main Frame □ Hand Held □ Multi core Micro Computer: A personal computer; designed to meet the computer needs of an individual. Provides access to a wide variety of computing applications, such as word processing, photo editing, e-mail, and internet. Laptop Computer: A portable, compact computer

Electronics And Communications Engineering

COOS NOTES

December 01, 2021

Unit- I Basic Structure of Computers Computer Architecture in general covers the aspects of computer design namely: Computer Hardware, Instruction set Architecture and Computer Organization. Computer hardware consists of electronic circuits, displays, magnetic and optical storage media and communication facilities. Instruction set Architecture is programmer visible machine interface such as instruction set, registers, memory organization and exception handling. Two main approaches are mainly CISC (Complex Instruction Set Computer) and RISC (Reduced Instruction Set Comp...

Post a Comment

READ MORE

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.

SRI INDU COLLEGE OF ENGINEERING & TECHNOLOGY
(An Autonomous Institution under UGC, New Delhi)
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Sheriguda(V), Ibrahimpatnam(M), R.R Dt.

ELECTRONICS AND COMMUNICATION ENGINEERING
CENTAL LIBRARY DETAILS

1. Total Volumes   :
2. Total Titles   :
3. Print Journals   :   30
   National Journals   :   18
   International Journals   :   12

SELF LEARNING MATERIALS/E-RESOUCRCES

4. E-Journals   :   402
   DELNET –   National Journals- 31   International Journals- 10
   J-Gate   –   National Journals- 247   International Journals- 114
5. NPTEL (National Programme on Technology and Enhanced Learning)
   No. of Courses   :   44
   No. of Video Lectures   :   1739
   No. of Text of Video Lectures :   1474
   No. of PDF Lectures (web courses):   8
6. SONET (Society for Networking for Excellence in Technical Education)
   No. of Courses   :   7
   No. of Video Lectures   :   128
7. EKEEDA Resources
   No. of Subject   :   27
   No. of Courses   :   3406
8. E-Books (eshodhsindu N-List) :   2926
9. NDLI National Digital Library of India

DEPARTMENTAL LIBRARY

   1. Total Volumes   :
   2. Total Titles   :

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DIGITAL LIBRARY

The Digital Library provides online resources for students and faculty. Digital Library is a library in which collections are stored in digital formats and accessible by computers. The digital content may be stored in CDs/DVDs locally, or accessed remotely via computer networks. A digital library is a type of information retrieval system with 40 computers of 100 Mbps speed Internet. NPTEL Video Lectures and Text of video lectures in PDF format from IITS and IISc, SONET Lectures, EKEEDA Digital Library Videos, E-content and E-books are maintaining by DSpace and Calibre E-Book Management software in the digital library.

DSpace Institutional Digital Repository/LMS:

The aim of this digital repository is to provide free service to Staff and students. It is a digital service that collects, preserves, distributes rare digital material and provides resource links. Users can access self learning e-content like E-Journals from   J-Gate and DELNET, E-books from eshodhsindu NLIST, Calibre E-book management software, NPTEL Videos, MIT Videos, Open source content and other digital information. DSpace URL: http://192.168.8.220/jspui/

E-RESOURCES

S.No	Details	No. of E-Resources
1	E-Journals	3221
	National: 1643+670	2313
	International: 788+120	908
2	E-Books (N-List and Callibre)	57553
3	EKEEDA Digital Library Videos	
	No. of Subject	171
	Video Lectures	20099
4	NPTEL Videos	5287
5	NPTEL Text of Video Lectures	8403
6	NPTEL PDF Materials	88
7	SONET Videos	264
8	Multimedia CD and DVDs	2403
9	LMS/Institutional Repository	Dspace
10	Databases	DELNET
11	E-Resources	J-Gate Engineering & Technology DELNET INFLIBNET N-LIST e-shodhsindu EKEEDA Video Lectures National Digital Library (NDLI) NPTEL E Resources
12	MOOCs (Massive Open Online Courses)	SWAYAM NPTEL Online Courses Coursera Online Courses Swayamprabha DTH Channel

SELF LEARNING/REMOTE ACCESS E-RESOURCES

S.No	Resource Name	Website Address
1	Eshodhsindu N-List	https://nlist.inflibnet.ac.in/veresources.php
2	J-Gate Engineering & Technology	https://jgateplus.com/search/login/
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/

REMOTE ACCESS – CREDENTIALS

1. **Eshodhsindu N-List :**

   User Name : sriinducentrallibrary@gmail.com

   Pass Word : **library**

2. **J-Gate Engineering & Technology: https://jgateplus.com/**

   User Name: **induuser**

   Password : **induuser1468156003**

3. **DELNET: http://164.100.247.26/ or https://delnet.in**

   User Name: **tgsicet**

   Password : **sic8382**

4. **EKEEDA : https://ekeeda.com/catalog/academic**

   For Login and Password contact Librarian

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.

NPTEL – SELF LEARNING MATERIAL
VIDEO 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 - I	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	IISc 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 Iyer	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)
ECE

S.No.	Name of the Course	No. of Lectures
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	38
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 - II	39
21	Electronics for Analog Signal Processing-I	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
1	Digital communication
2	Digital image processing
3	Digital signal processing
4	Embedded systems
5	Microcontrollers
6	Mircoporcessors & microcontrollers
7	Principles of communication
8	Semiconductor devices

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

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
Self Learning Courses
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**

DELNET E-JOURNALS
NATIONAL

		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

INTERNATIONAL

	ECE
1	American Journal of Electrical and Electronic Engineering
2	American Journal of Embedded Systems and Application
3	Iranian Journal of Electrical and Electronic Engineering
4	International Journal of Computer and Communication Engineering
5	International Journal of Computers Communications & Control
6	International Journal of Electrical and Electronic Engineering & Telecommunication
7	International Journal of Electrical, Electronics and Data Communication(IJEEDC)
8	International Journal of Electronics and Telecommunications
9	International Journal of Engineering Research in Electronics and Communication Engineering
10	International Journal of Wireless & Mobile Network (IJWMN)

ECE- J-Gate eJournals
NATIONAL

S.No	JOURNAL NAME
	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

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
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
36	Journal of Image Processing Theory and Applications
37	Journal of Information and Communication Convergence Engineering
38	Journal of Information and Communication Technology
39	Journal of Information and Telecommunication
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
50	Journal of Programmable Devices, Circuits, and Systems
51	Journal of Radio and Television Broadcast
52	Journal of Sensor and Actuator Networks
53	Journal of Sensor Science and Technology
54	Journal of Sensor Technology
55	Journal of Sensors
56	Journal of Sensors and Instrumentation
57	Journal of Signal and Image Processing
58	Journal of Signal and Information Processing
59	Journal of Signal Processing
60	Journal of Signal Processing
61	Journal of Signal Processing and Wireless Networks
62	Journal of Signal Processing Theory and Applications
63	Journal of Switching Hub
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
100	Application of Information and Communication Technology
101	APSIPA Transactions on Signal and Information Processing
102	Automatika: Journal for Control, Measurement, Electronics, Computing and Communications
103	Bahria University Journal of Information and Communication Technologies
104	BHEL Journal
105	BIOINFO Sensor Networks
106	Bonfring International Journal of Advances in Image Processing
107	Bonfring International Journal of Research in Communication Engineering
108	CED: Communications Engineering and Design
109	Cell Signalling and Trafficking
110	Circuits and Systems
111	Circuits and Systems: An International Journal

112	CLEI Electronic Journal
113	Communication Theory and Research
114	Communications
115	Communications and Network
116	Communications and Strategies
117	Communications Engineering Journal
118	Communications in Control Science and Engineering
119	Communications in Information and Systems
120	Communications in Mobile Computing
121	Communications News
122	Communications of the IIMA
123	Communications Today
124	Computing, Performance and Communication Systems
125	Control Theory and Informatics
126	CSI Communications
127	CSIR News
128	Defence Science Journal
129	Defense Electronics
130	Digital Communications and Networks
131	DJ Journal of Advances in Electronics and Communication Engineering
132	EIJO Journal of Engineering, Technology and Innovative Research
133	Electrical Engineering and Electromechanics
134	Electronic Communications of the EASST
135	Electronic Journal of Information Systems in Developing Countries
136	Electronic Research Announcements (ERA-MS)
137	Electronics
138	Electronics
139	Electronics and Power
140	Electronics Weekly
141	ELK Asia Pacific Journal of Electronics and Communication Technology
142	Embedded Selforganising Systems
143	Engineered Systems
144	Engineering and Technology
145	Engineering Letters
146	Engineering Science and Technology
147	EURASIP Journal on Advances in Signal Processing
148	EURASIP Journal on Embedded Systems
149	EURASIP Journal on Image and Video Processing
150	EURASIP Journal on Wireless Communications and Networking
151	Facta Universitatis Series : Electronics and Energetics
152	Flexible and Printed Electronics
153	Global Journal of Control Engineering and Technology
154	Global Journal of Engineering Research
155	Greener Journal of Electronics and Communication
156	Hans Journal of Wireless Communications

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
217	Signal Processing : An International Journal
218	Signal Processing Research
219	Sound and Video Contractor
220	SSRG International Journal of Electronics and Communication Engineering
221	SSRG International Journal of VLSI and Signal Processing
222	Telecommunications and Electronics
223	Television
224	This Week in Consumer Electronics
225	Turkish Journal of Fuzzy Systems
226	Universal Journal of Communications and Network
227	Universal Journal of Control and Automation
228	Universal Journal of Engineering Science
229	Vehicle Engineering
230	VLSI Design
231	Voice and Data
232	Wireless and Mobile Technologies
233	Wireless Communications and Mobile Computing
234	Wireless Engineering and Technology
235	Wireless Sensor Network
236	Wireless Week
237	World Journal Control Science and Engineering
238	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
243	IOSR Journal of VLSI and Signal Processing
244	ISRN Communications and Networking
245	ISRN Electronics

246	ISRN Sensor Networks
247	ISRN Signal Processing
	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

37	International Journal of Electronics and Communication Engineering and Technology
38	International Journal of Electronics and Communication Engineering Research and 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
60	International Journal of Information and Electronics Engineering
61	International Journal of Information Engineering and Electronic Business
62	International Journal of Innovations in Engineering and Technology
63	International Journal of Innovative Research in Electronics and Communications
64	International Journal of Innovative Technology and Creative Engineering
65	International Journal of Instrumentation and Control Systems
66	International Journal of Instrumentation and Measurement
67	International Journal of Instrumentation Science
68	International Journal of Instrumentation, Control and Automation
69	International Journal of Interactive Mobile Technologies
70	International Journal of Latest Trends in Engineering and Technology
71	International Journal of Managing Public Sector Information and Communication 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

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

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To access e-books through NLIST, fill the following Google Form
https://docs.google.com/forms/d/1T129BCnzbGna_hInUOSTEhfGjZ_Aw
AcFvipeaDYVW5E **or scan QR Code**

1. After filling Google form you will receive mail from NLIST
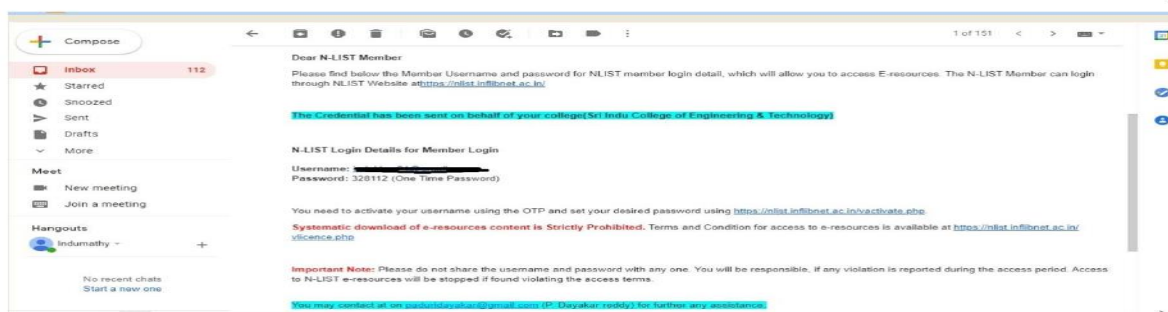
2.The user must activate with their credential
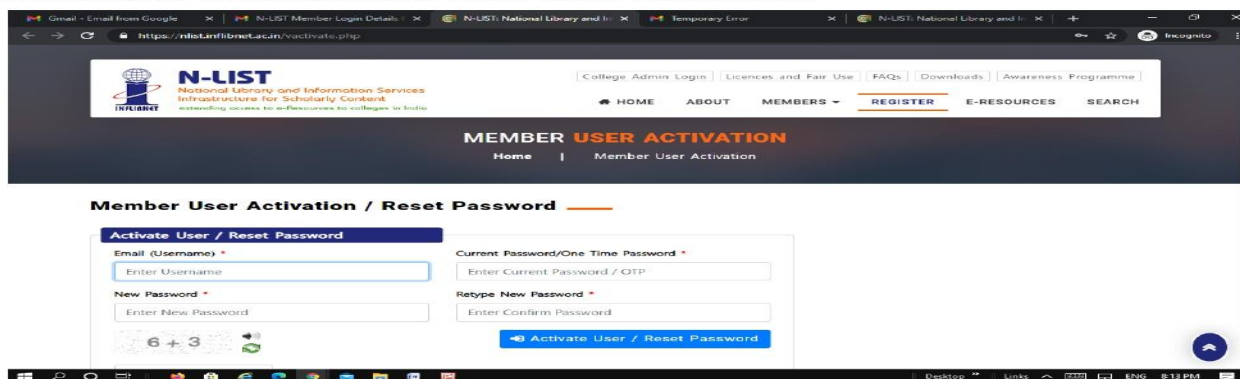
3.Type URL: https://nlist.inflibnet.ac.in/ **or Scan QR Code**
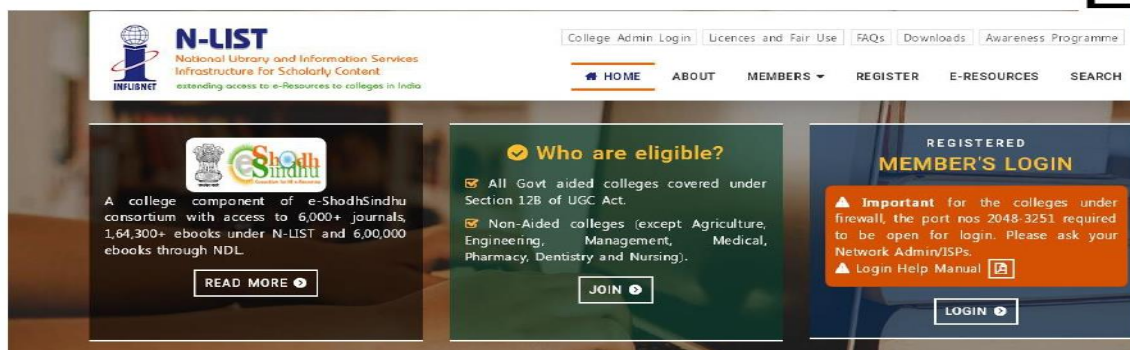
4.Once click on member's login, the below screenshot will open and shows that 'your connection isn't secure'. Please click on Advanced button to proceed the next step and click on Continue to iproxy.inflibnet.ac.in(unsafe) link to get member's login webpage. It will show only for one time while using latest version browser of Chrome, Firefox or Microsoft edge etc.
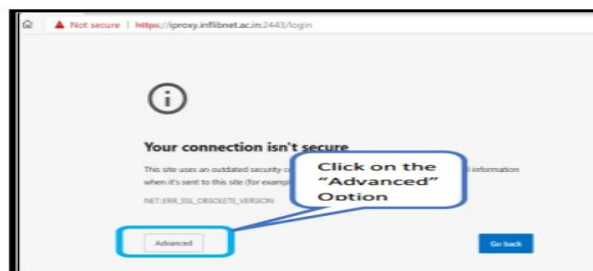
5.Please enter the username and password to access the N-List e-resources.

(username is your e mail id, for password please check your mail received from NList)

6. After Login you will get the list of e-Resources available.
7. Type any book name or author name on search box provided

If already Registered in NLIST, but forgotten password

1. **Type URL:** https://nlist.inflibnet.ac.in/
2. **click on Member's Login**
3. **Click on forgot Password**

4. Type your mail id and click on send OTP to Email and check your mail

HOW TO ACCESS J-GATE FULL TEXT JOURNALS

1. Login with URL **http://www.jgateplus.com** and click on go button
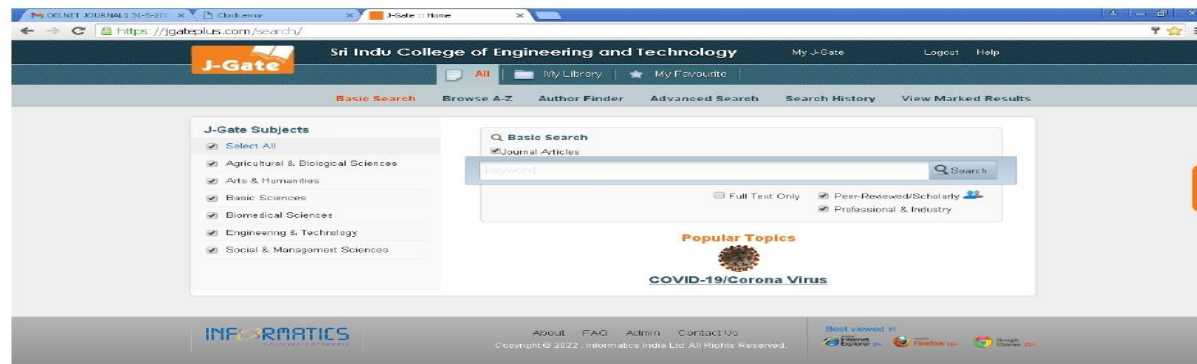
2. Click on **Journal Finder** and **Type any Journal Name on the following screen, Click Search button**
3. Click on **Journal** and select any article
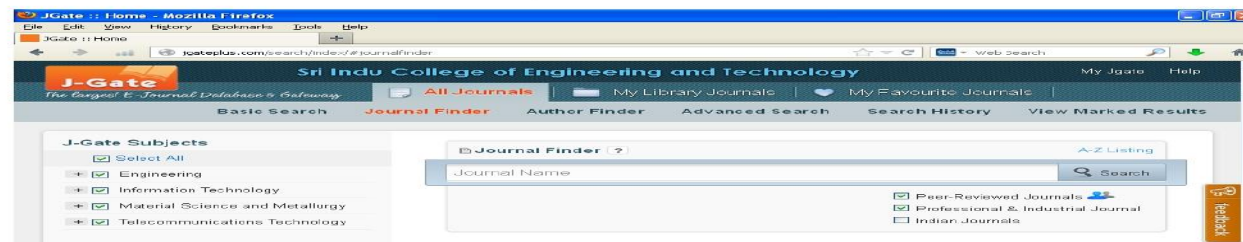
4. Click on Basic search for article search and type article name, click search button.

How to Access DELNET Online

1. **Type url** http://delnet.in
2. **Click on New Discovery Portal**
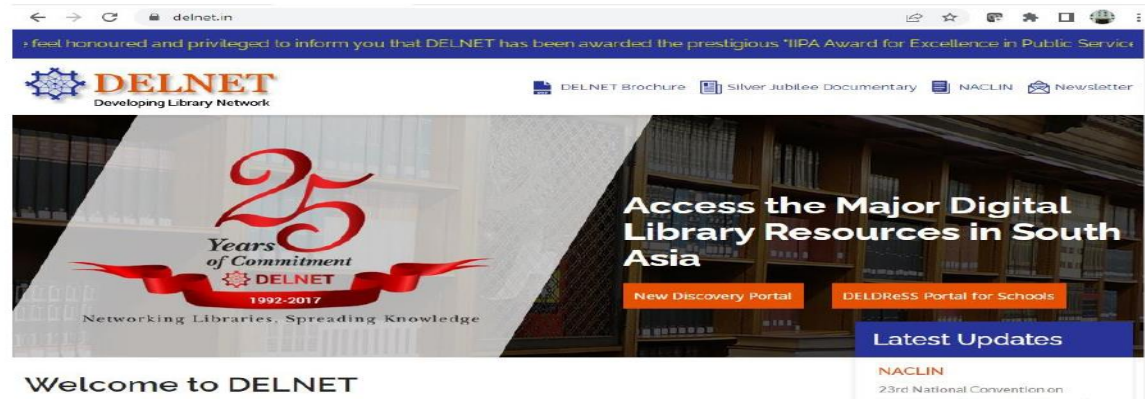
3. **Type User Name:**   **tgsicet**
4. **Type Password   :**   **sic8382**
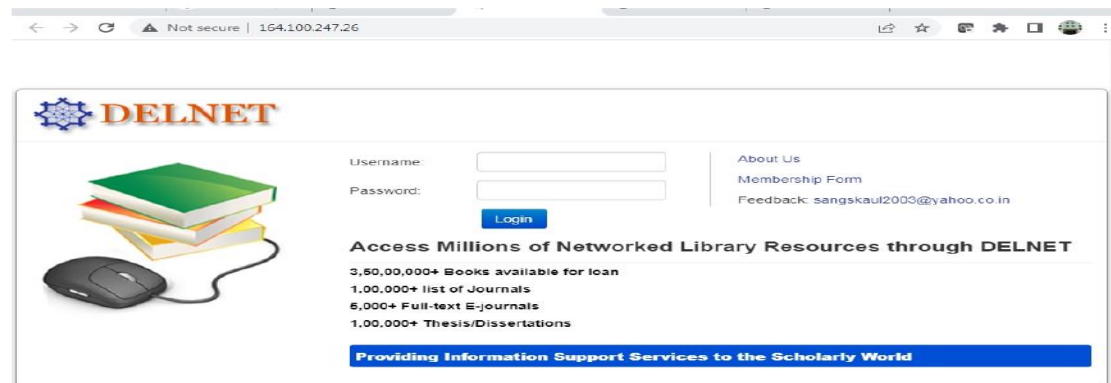
EKEEDA DIGITAL LIBRARY
Steps to activate Ekeeda Digital Library

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Step 2: Select your Branch
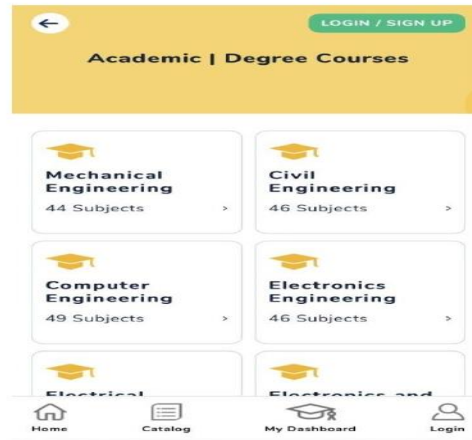
Step 3: Click on **'Get Subscription'**

Step 4: Click on Signup and create your account. Use Referral Code - **EAPSRI22**

Step 5: Click on **'Get Subscription'** and you will be redirected to Subscription Plans page

Step 6: Select the subscription plan which you want and click on 'PROCEED'

Step 7: Enter Coupon Code SRIINDU click on Apply button

Step 8: Now Click on 'PROCEED TO PAY'. Your course will be activated.

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Enter Code

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Subscription Plan
4 Years   ₹ 5,400.00
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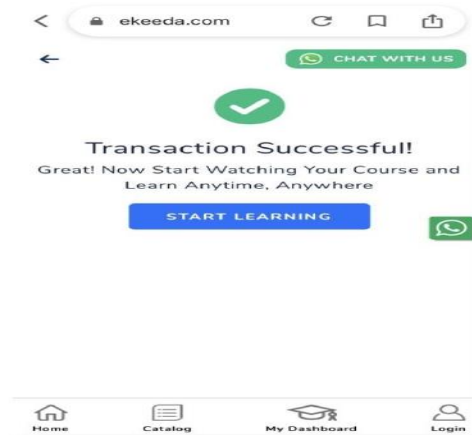
HOW TO ACCESS DSpace/LMS

1. Type URL : http://192.168.8.220/jspui
2. Select any one e-resource from side bar and click on e-resource

HOW TO SEARCH E-BOOKS

FROM CALIBRE E-BOOK MANAGEMENT SOFTWARE

1. Login with URL http://192.168.8.114:8080/browse
2. Type Book Title or Author on the search bar and press enter
3. For Branch wise books - Click Series button on the following screen
4. For Subject wise books – Click Tag button on the following Screen
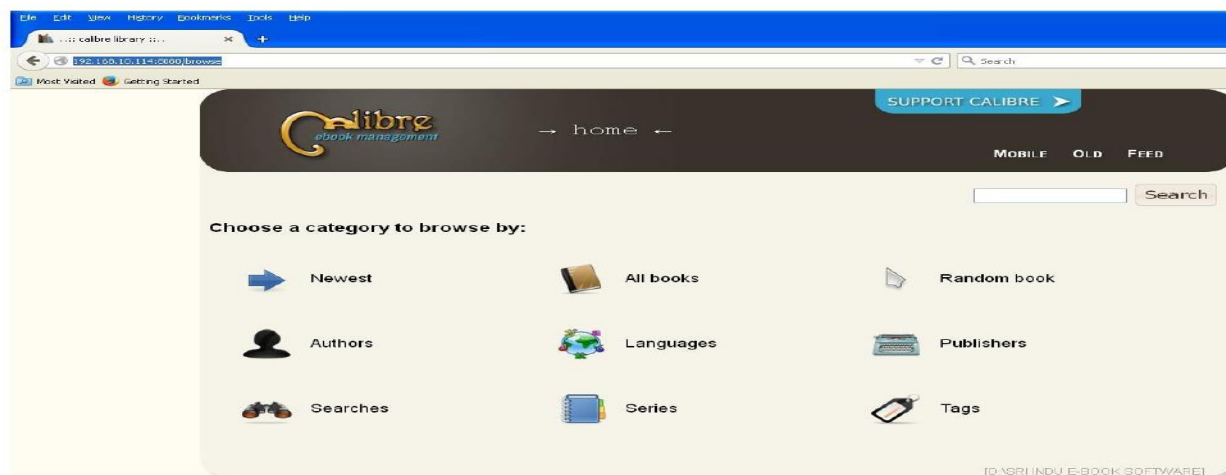
Charts
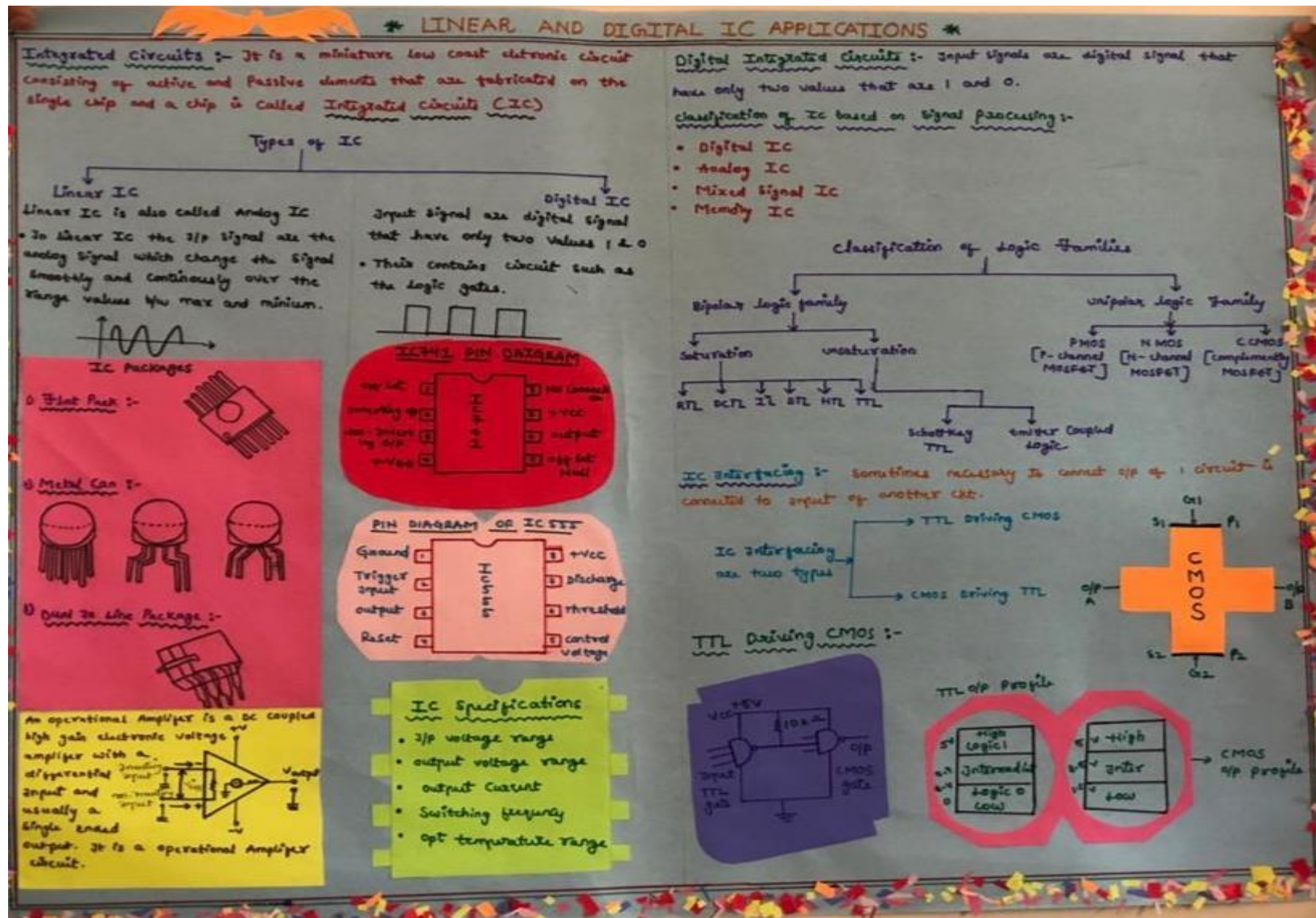
LINEAR & DIGITAL INTEGRATED CIRCUITS
APPLICATIONS

INTEGRATED CIRCUITS:— An Array of components Miceltiple Circuits and Semi Conductor
Wafer material part (0) Integrated together to form a chip
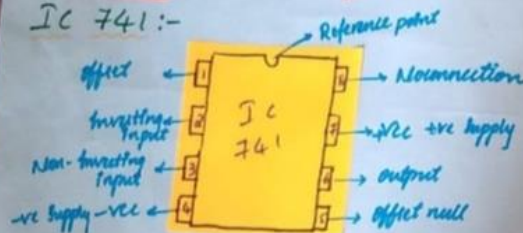→ Jackkibly Invented 1st "Integrated Circuits" in 1960

LINEAR IC

Metal Can Ic   Ceramic flat pack Ic   Pin Dual In line Package (DIP)   DIP Plastic

IC 741:—

- offset → 1
- Inverting Input → 2   IC 741   → No connection
- Non-Inverting input → 3   → Vcc +ve supply
- -ve Supply -Vcc → 4   → output
- → offset null
- Reference point
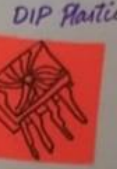
OPERATIONAL AMPLIFIER

→ An Opamp is a components to compled high gain electronic voltage amplifier with a different input usally a single coded output

Non-Inverting +Vcc / Inverting OP. Amp 6 O/P / -Vcc

→ These Op-amp consist of open phase (own supply to device) to a -ve
o/p

IC 555 timer

- GND → 1   IC 555   → Vcc
- Trigger → 2   → Discharge
- output → 3   → Threshold
- Reset → 4   → control

IC 565 timer

- -Vcc → 1   14 → No Connection
- input → 2   13 → No Connection
- input → 3   12 → No Connection
- VCO O/P → 4   11 → Interconnection
- Phase detector → 5   10 → external CAP+Vcc
- VCO Input → 6   9 → external Capacitance
- Demodu → 7   8 → external Resistor

DIGITAL IC

DATA CONVERTER:— An Analog Signal is a
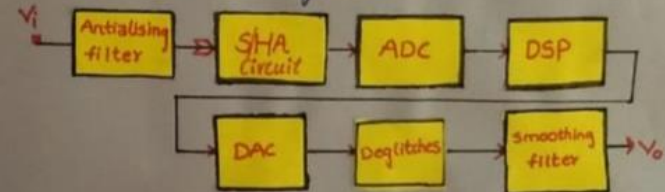→ time varying signal that has any number of value for a given time slot.
→ An Digital signal varies suddenly from one level to another level and will have only finite number of value for given time slot
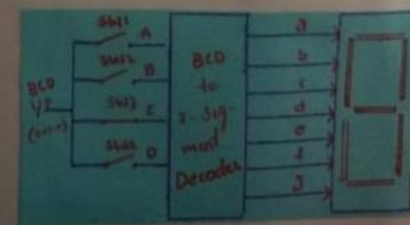
Types of Data Converters:—
→ A to D converters   → D to A converters

BLOCK Diagram:—

Vi → Antialising filter → SHA Circuit → ADC → DSP →
→ DAC → Deglitches → smoothing filter → Vo

LCD SEVEN SEGEMENT DISPLA
→ LCD (Liquid Cryst Display)
→ the seven segement disp are made up of either LC
→ These are arranged in a way to form numbers an characters by displaying different combinations of segment

Electromagnetic Wave

An Electromagnetic wave is radiated by an accelerated charge as coupled electric and magnetic field Oscillating perpendicular to each other and also to the direction of propagation of the wave.
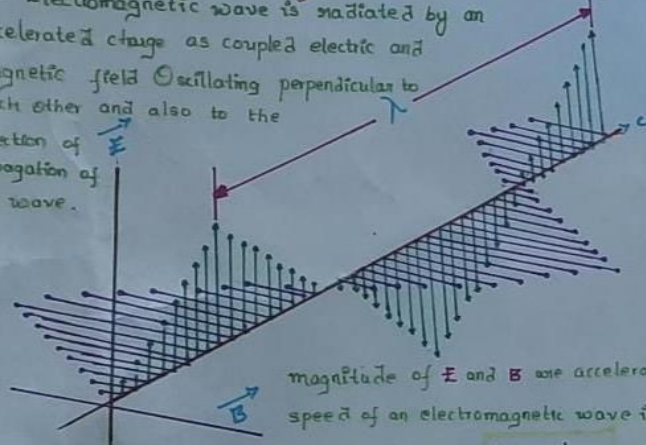
magnitude of E and B are accelerated $\frac{E_0}{B_0} = c$

speed of an electromagnetic wave in free space.

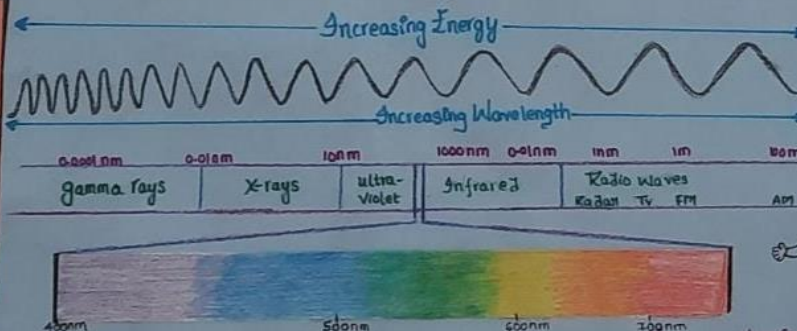$$c = \frac{1}{\sqrt{\mu_0 \varepsilon_0}}$$

Properties

- Do not carry any charge.
- Do not deflect by electric and magnetic field.
- Travel with speed of light in vaccum.
- Transverse in nature.
- Do not require any material medium for propagation.

Electromagnetic Spectrum

The orderly distribution of electromagnetic waves in accordance with their wavelength or frequency.

Maxwell's Equations

① $\oint_s \bar{E} \cdot \bar{ds} = \frac{q}{\varepsilon_0}$

② $\oint_s \bar{B} \cdot \bar{ds} = 0$

③ $\oint_s \bar{E} \cdot \bar{dl} = -\frac{d\phi_B}{dt} = -\frac{d}{dt} \oint_s \bar{B} \cdot \bar{ds}$

④ $\oint_s \bar{B} \cdot \bar{dl} = \mu_0 (i_c + i_D)$

$= \mu_0 (i_c + \varepsilon_0 \frac{d}{dt} \oint_s \bar{E} \cdot \bar{ds})$

Modified Ampere's law
$\oint \bar{B} \cdot \bar{dl} = \mu_0 (i_c + i_D)$

Displacement Current
$i_D = \varepsilon_0 \frac{d\phi_E}{dt}$

Increasing Energy

Increasing Wavelength

0.0001 nm	0.01 nm	1 nm	1000 nm	0.01 nm	1 nm	1 m	100 m
gamma rays	X-rays	ultra-violet	Infrared		Radio waves Radar TV FM		AM

400 nm | 500 nm | 600 nm | 700 nm

Radio Waves : Used in radio communication.

Infrared : Useful for elucidating molecular structure.

Visible light : Detected by simulating nerve endings of human retina.

Ultra Violet : Can cause many chemical reactions. e.g. the tanning of human skin.

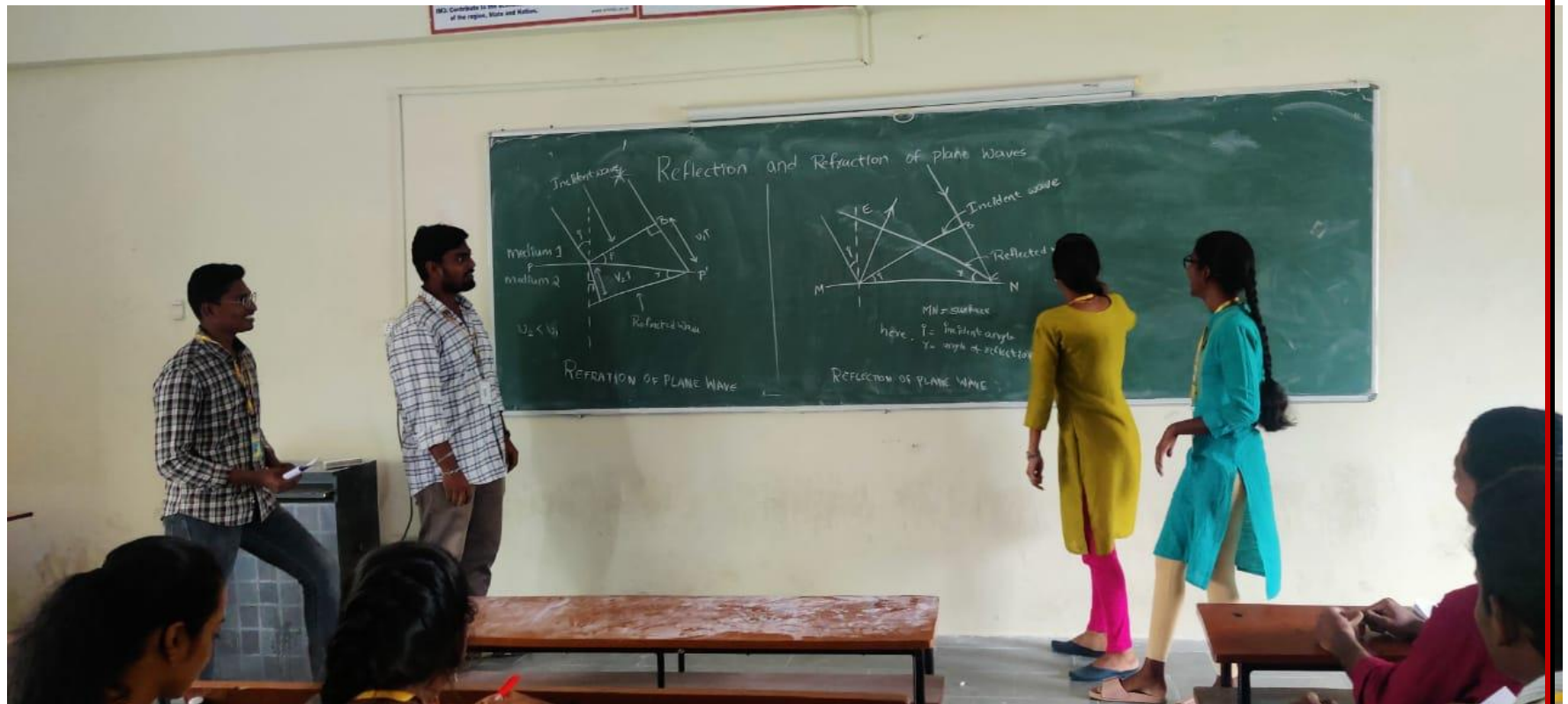X-rays : Penetrate matter 2) Ionize gases (e.g. Radio Graphy

Gamma Rays : In the treatment of Cancer and tumours.

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.

Industrial Visit

- The Department is Planning One Industrial Tour for every year. As it is evident that students gain practical knowledge during their industrial visit which help them to get placed to a great extent, department has taken necessary measures to have MoUs with industries in the vicinity of the college for in-plant training, internship and all related components.

KWALITY PHOTONICS PRIVATE LIMITED
&
LEDCHIP INDUS PRIVATE LIMITED
29A&B, Elelctronics Complex, Kushaiguda, Hyderabad-500 062
Naresh-8179409843 Mail: nareshledchip@gmail.com
Website: www.ledchipindus.com www.kwalityphotonics.com

Hyderabad,
05/01/2021.

To

From   SRI INDU COLLEGE Of ENGINEERING & TECHNOLOGY

Sub: Industrial Visit for   SRI INDU COLLEGE Of ENGINEERING & TECHNOLOGY

Respected Sir/Madam,

Kwality Photonics Pvt Ltd. would like to inform you that industrial visit proposal for your students is accepted on 07th JAN-2022   100students and faculty has visited factory.
Rs 2000 Visit Chagres

Thanking you,

Yours sincerely,

For Kwality Photonics Pvt. Ltd.
&
LEDchip Indus Pvt Ltd.

Dr. FAZEL UR REHMAN, VU3GEH

Chairman   MBBS, FRACGP (Aust.)

S. RAM MOHAN, VU2MYH

Executive Vice - Chairman & Director

NATIONAL INSTITUTE OF AMATEUR RADIO

Raj Bhavan Road, Somajiguda,
Hyderabad - 500 082, INDIA

To:

Principal
Sri Indu College of Engg. & Technology
Ibrahimpatnam, Hyderabad

Sub: Visit of students and faculty for field visit to NIAR - reg.

Dear Sir,

We thank you and members of ECE department for bringing 63 students of 4th year ECE of your institute for a field visit to NIAR today along with 3 faculty members.

The participants were introduced to the various concepts of Amateur Radio including live demonstration, Fox Hunt and visit to Amateur Radio Museum.

We hope that the information provided to the students was useful and that they would take interest in becoming Amateur Radio operator for the benefit of the society. Amateur Radio examination is scheduled every alternate months.

Thanking you,

Yours sincerely,

(S.Ram Mohan)