

**Department of
Electronics and Communication
Engineering**

**ICT ENABLED TOOLS FOR EFFECTIVE
TEACHING - LEARNING PROCESS**

CONTENTS

S.NO	CONTENT		PAGE NUMBER
1	Introduction		03
2	Facilities Available		05
3	Geo Tagged Photographs		08
	3.1	ICT Enabled Classrooms	08
	3.2	ICT Enabled Laboratories	14
	3.3	ICT Enabled Auditorium	19
	3.4	Other ICT facilities	23
		3.4.1 Microsoft Teams	24
		3.4.2 Canvas	28
		3.4.3 Zoom	29
		3.4.4 Cisco WebEx	30
		3.4.5 Google Meet	31
4	NPTEL certification		34

1. INTRODUCTION

It is only through Education and the integration of ICT in education that one can teach students to be participants in the growth process in this era of rapid change. ICT make education system more productive, interesting, give more powerful instruction and also able to extent the educational opportunities to masses and creating information –rich learning environment. To ensure that students play an active role in the learning process, Faculty make use of Information and communication technologies (ICT)in teaching-learning process.

- All our classrooms and laboratories are equipped with LCD Projectors.
- The teachers are encouraged to use modern teaching pedagogy, in addition to conventional classroom teaching practices. Faculty applies teaching methods such as group discussions, seminars, and student presentation for better understanding of concepts/ technologies using ICT.
- The Teaching-Learning Process is supported with Regular Practical Sessions, access to Digital Library, Online Courses (MOOCS, NPTEL etc.), online journals, Use of LCD projectors for seminars and workshops, productive use of educational videos, Communication skills training facility make the students to acquire proficiency in listening, speaking, reading and writing.
- The college has a central library well equipped with books & e-books, technical magazines, journals & e-journals and access to NPTEL lecture videos in the library, which serves as a knowledge resource. The students and faculty are motivated to register for online NPTEL Certificate courses and additional online courses like CODE NINJA, EDUREKA etc.

Various Teaching and Learning Pedagogies used

Course Delivery Methods	Justification
Whiteboard and marker (Lecture Method)	<ul style="list-style-type: none"> • To convey basics, critical information, history, background, theories and equations. • To expose the students to contemporary issues. • Quick way to reach large numbers of students for exchange of useful information
Blended Teaching	<ul style="list-style-type: none"> • Usage of Teaching aid Techniques such as Video Lectures, Power point presentations. • Implementation of Active learning strategies such as Collaborative and individual Learning activities.
Laboratory Demonstration	<ul style="list-style-type: none"> • Theory verified by practical approach using various data acquisition systems in the analysis. • Students learn to work in teams and understand the importance of Multi-disciplinary courses in real world applications.
Course Handout	<ul style="list-style-type: none"> • Course handout consists of Video lectures, Lecture Notes, Assignment questions, Tutorial questions and answers a model question papers.

2.Facilities Available

S.No.	Facility	Total Number
1	ICT Enabled classrooms	13
2	Tutorial Rooms	03
3	Laboratories	12
4	Seminar Hall	01
5	Research and Development Lab	01
6	Auditorium	01

Details of ICT Enabled Classrooms

S.No	Block	Room Number/Class	Floor	Area (sq. m)
1	A	IB-201 / ECE –II A	Second	69
2	A	IB-202 / ECE –II B	Second	83
3	A	IB-203 / ECE –III B	Second	69
4	A	IB-206 / ECE –II C	Second	69
5	A	IB-211 / ECE –II D	Second	69
6	B	IB-213 / ECE –III A	Second	69
7	B	IB-215 / ECE –III C	Second	69
8	B	IB-217 / ECE –III D	Second	69
9	B	IB-313 / ECE –IV A	Third	69
10	B	IB-314 / ECE –IV B	Third	83
11	B	IB-315 / ECE –IV C	Third	69
12	B	IB-321 / ECE –IV D	Third	69
13	B	IB-317 / M.Tech ECE	Third	69

Table: Details of Class Rooms

S.No	Block	Room Number	Floor	Area (sq. m)
1	A	IB-212	Second	34
2	A	IB-205	Second	34
3	A	IB-301	Third	69

Table: Details of Tutorial Rooms

S.No	Block	Room Number	Floor	Area (sq. m)	Description
1	B	IB-114	First	83	Embedded Systems/Advanced Embedded Systems Lab
2	B	IB-208	Second	72.49	Microwave Engineering Lab

3	B	IB-209	Second	72.49	Electronic Devices and Circuits/Electronics Circuits Analysis Lab
4	B	IB-210	Second	72.49	Pulse Digital Circuits/IC Analysis Lab/Digital Systems Design Lab
5	B	IB-214	Second	83	Computer Organization/Digital IC Applied Lab
6	B	IB-218	Second	69	Analog Communication/Digital Communications lab
7	B	IB-219	Second	69	Analog Electronics /Electronics Circuits Analysis /Analog Digital Electronics Lab
8	B	IB-220	Second	69	Linear Applications/IC Application Lab
9	B	319	Third	69	Basic Simulation / Digital Signal Processing Lab
10	B	318	Third	69	Simulation Lab –I (ECA/ADC)
11	B	320	Third	69	Micro Processors & Micro Controllers / VLSI &ECAD/ Modelling and Simulation Lab
12	AB	ABB-002	Ground	76.5	Electrical Lab-I

Table: Details of Laboratories

S.No	Block	Room Number	Floor	Area (sq. m)
1	AB	AB-205	Second	210

Table: Details of Seminar Halls

S.No	Block	Room Number	Floor	Area (sq. m)
1	B	IB-221	Second	72.49

Table: Details of Research & Development Labs

2. GEOTAGGED CLASSROOMS PHOTOGRAPHS

3.1 ICT Enabled Classrooms

Department of Electronics & Communication Engineering

II-ECE A CLASSROOM



II-ECE B CLASSROOM



III-ECE B CLASSROOM



II-ECE C CLASSROOM



II-ECE D CLASSROOM



III-ECE A CLASSROOM



III-ECE C CLASSROOM



III-ECE D CLASSROOM



IV-ECE A CLASSROOM



IV ECE B CLASSROOM



IV-ECE C CLASSROOM



IV-ECE D CLASSROOM



3.2 ICT Enabled Laboratory

ECE-LAB-IB 114

EMBEDDED SYSTEM/ADVANCED EMBEDDED SYSTEM LAB



ECE-LAB-IB 208

MICROWAVE ENGINEERING LAB



ECE-LAB-IB 209

ELECTRONIC DEVICE CIRCUITS LAB



ECE-LAB-IB 210

PULSE & DIGITAL CIRCUITS LAB



ECE-LAB-IB 218**ANALOG COMMUNICATION/DIGITAL COMMUNICATION LAB****ECE-LAB-IB 219****ANALOG DIGITAL ELECTRONICS LAB**

ECE-LAB-IB 220

LINEAR APPLICATIONS/IC APPLICATIONS LAB



ECE-LAB-IB 319

BASIC SIMULATION/DIGITAL SIGNAL PROCESSING LAB



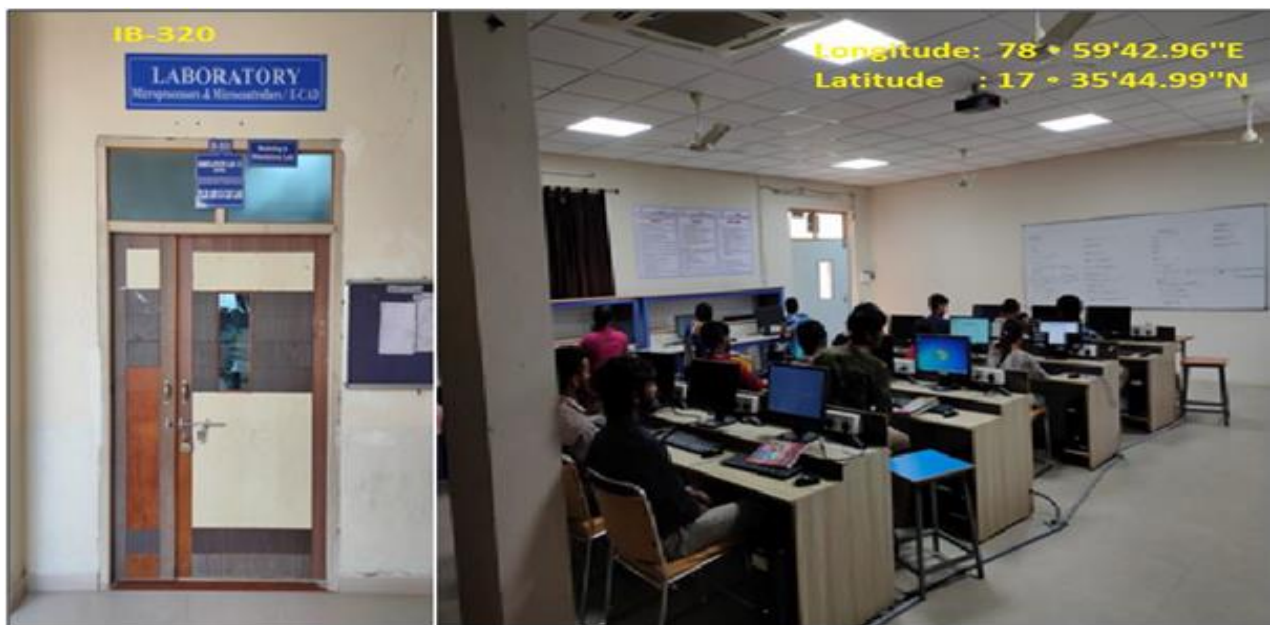
ECE-LAB-IB 318

SIMULATION LAB-I



ECE-LAB-IB 320

MICROPROCESSOR & MICROCONTROLLERS LAB



3.3 ICT Enabled Auditorium



Teachers using ICT for Effective Teaching



Room No : IB213

Mr. Y Satish Kumar , Associate Professor -ECE- using ICT facility for Antennas and Wave Propagation

Aswath
PRINCIPAL
SREYAS INSTITUTE OF ENGG. & TECH
D.No. 9-39, Beside Indu Aranya,
Bandlaguda, Tattianaram, Hyderabad-68

Longitude: 78 ° 35'38.53"E
Latitude : 17 ° 21'15.94"N



ICT facility being used by Mr.N Ramesh , Associate Professor –ECE for Course : Basics of Electrical Engineering.

Longitude: 78 ° 35'38.53"E
Latitude : 17 ° 21'15.94"N



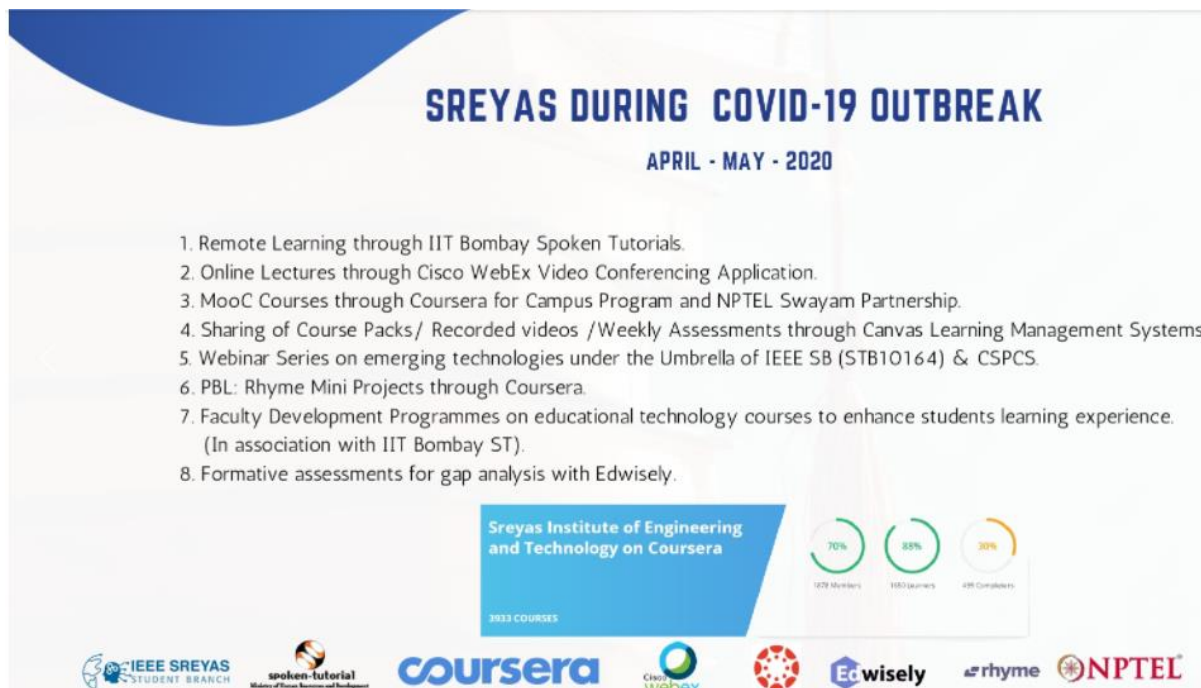
ICT facility being used by Mr.K Narasimha , Assistant Professor –ECE for Computer Networks



Mrs. A.Praveena , Assistant Professor-ECE , using ICT facility in Laboratory : Basic Simulation Laboratory

Ashish
PRINCIPAL
SREYAS INSTITUTE OF ENGG. & TECH
D.No. 9-39, Beside Indu Aranya,
Bandlaguda, Tattianaram, Hyderabad-68

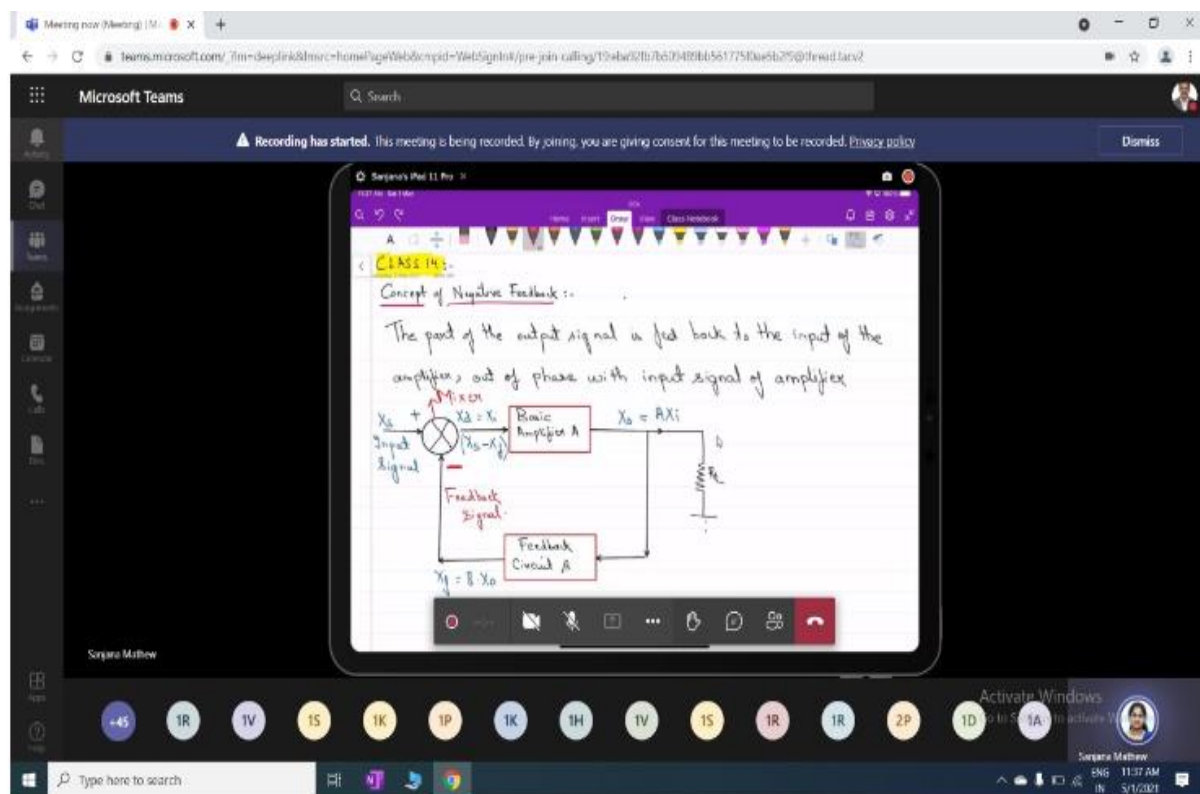
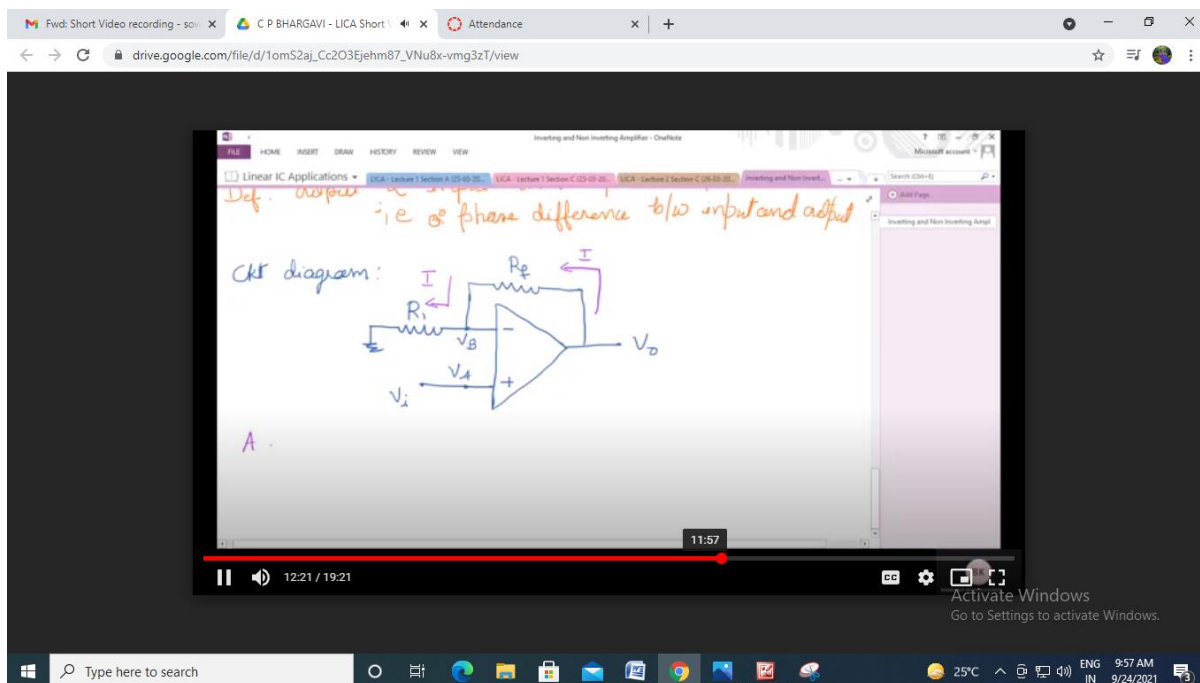
ACTIVITIES CONDUCTED DURING COVID PANDAMEIC



3.4 OTHER ICT FACILITIES

3.4.1 Virtual class using Microsoft teams

https://drive.google.com/file/d/1Bw4ioA_RpBe3FUxuMIAEsHhurLhgK_lw/view?usp=s_haring



Microsoft Teams interface showing a video player for "GPS SESSION 15 (UNIT-3)_20210503_052954.mp4". The video content displays a block diagram of a GPS Receiver.

GPS Receiver

The diagram illustrates the architecture of a GPS receiver. It starts with an Antenna connected to an RF stage (BPF, Amp). This is followed by a First IF stage (BPF, Amp, LO) and a Second IF stage (BPF, Amp, LO). The signal then goes through an A/D converter. A Reference oscillator and Frequency synthesizer provide clocks to the mixers and the A/D converter. The digitized IF signal is processed by a navigation processing block (including Kalman filtering) to produce navigation outputs (position, velocity, time, fault, detection/lock). External inputs (INS, altimeter, Loran-C, clock aiding) are also fed into the navigation processing block. The navigation processing block also handles code acquisition/tracking, carrier acquisition/tracking, message bit synchronization, code/center pseudorange, delta-range measurements, and HW & SW signal processing.

Fig. 4.1 Generic GPS receiver.

09-01-2021 (JUMPS & PORTS)

Paging in 8051

- ROM (64KB) is divided into pages
- Size of each page=2KB

Handwritten notes: 32, 2KB, Absolute Imp, 64KB ← ROM, code / Prog, 2KB → Page, 32 pages.

ROM	0000H	0000	0000	0000	0000	0000	0000
07FFH	0000	0111	1111	1111	1111	1111	1111
0800H	0000	1000	0000	0000	0000	0000	0000
0FFFH	0000	1111	1111	1111	1111	1111	1111
1000H	0001	0000	0000	0000	0000	0000	0000
17FFH	0001	0111	1111	1111	1111	1111	1111
FFFF							

EDC LECTURE-01.mp4

drive.google.com/file/d/1e2y8Jxfh8YOtpdbcmFqMg8j74A39DxR/view?ts=5f2a6fe0

EDC LECTURE-01.mp4

Open with Document Viewer for...

3:10 PM Sun 2 Aug

ELECTRONIC DEVICES AND CIRCUITS

Home Insert Draw View

icon atom

18:39 / 38:18

Activate Windows
Go to Settings to activate Windows.

Type here to search

25°C

ENG IN

10:04 AM

9/24/2021

EDC LECTURE-01.mp4

drive.google.com/file/d/1e2y8Jxfh8YOtpdbcmFqMg8j74A39DxR/view?ts=5f2a6fe0

EDC LECTURE-01.mp4

Open with Document Viewer for...

3:25 PM Sun 2 Aug

ELECTRONIC DEVICES AND CIRCUITS

Home Insert Draw View

Forbidden energy Gap

Energy Gap

Crystal Lattice

Spacing

Interatomic Spacing, r

33:07 / 38:18

Activate Windows
Go to Settings to activate Windows.

Type here to search

25°C

ENG IN

10:04 AM

9/24/2021

The screenshot shows a Microsoft Teams meeting interface. At the top, a notification states: "Recording has started. This meeting is being recorded. By joining, you are giving consent for this meeting to be recorded. Privacy policy". The main content area displays a whiteboard with the following handwritten mathematical equations:

$$a_n s^n C(s) + a_{n-1} s^{n-1} C(s) + \dots + a_0 C(s)$$

$$= b_m s^m R(s) + b_{m-1} s^{m-1} R(s) + \dots + b_0 R(s)$$

$$C(s) [a_n s^n + a_{n-1} s^{n-1} + \dots + a_0]$$

$$= R(s) [b_m s^m + b_{m-1} s^{m-1} + \dots + b_0]$$

$$H(s) = \frac{C(s)}{R(s)}$$

Below the equations, a status bar indicates "Your microphone is muted." and a timer shows "52:40". The bottom of the screen features a Windows taskbar with various application icons and a system clock showing "11:10 AM" on "5/14/2020".

3.4.2 Virtual class using Canvas

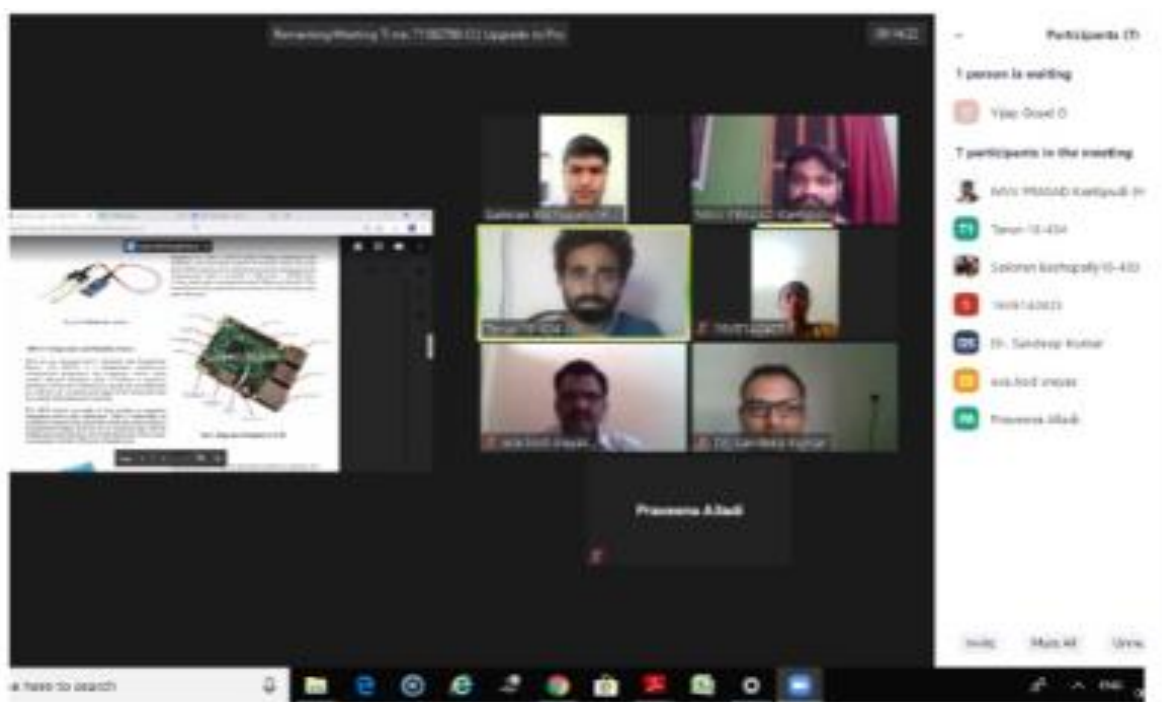
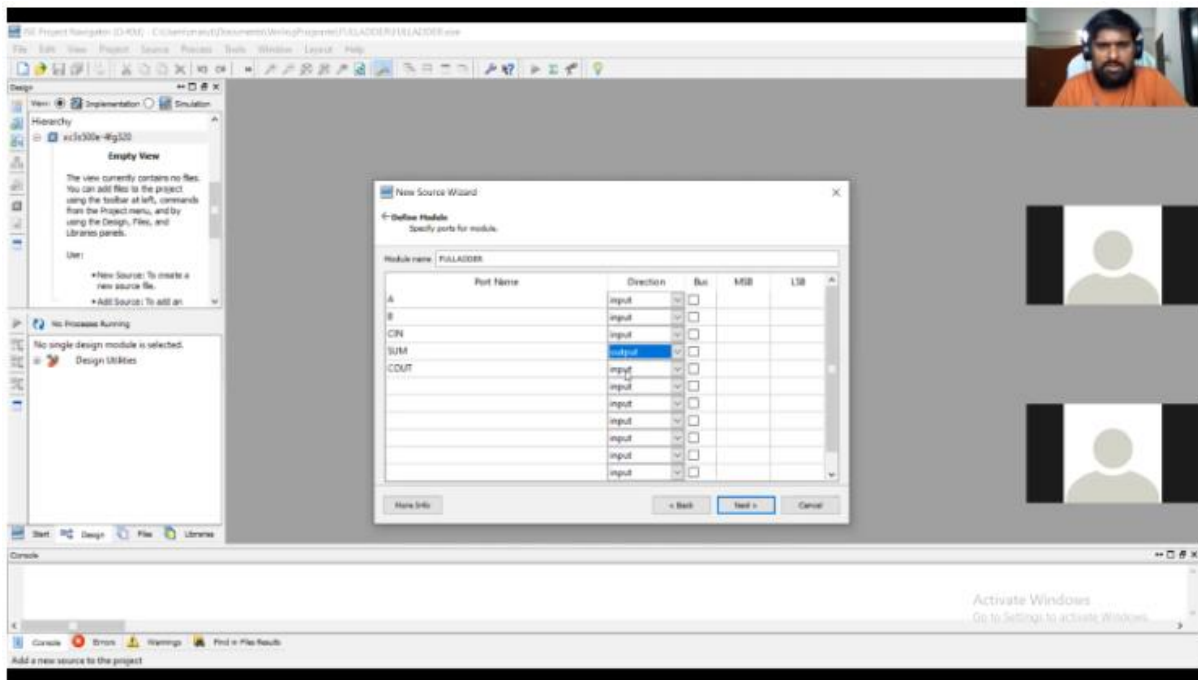
https://drive.google.com/file/d/1B2c3G3uONq6xbec_CDeSOM9JB4eGXv5N/view?usp=sharing

The screenshot shows the Canvas LMS Dashboard. The top navigation bar includes links for Inbox (3,835), Dashboard, and a search bar. The main content area is titled 'Dashboard' and features a sidebar with navigation icons for Account, Dashboard, Courses, Calendar, Inbox, History, Commons, and Help. The main area displays 'Published Courses (5)' with a grid of course cards. The cards include 'Computer Networks(2020-21) CN', 'COE (Signal processing and comm... CPCS', '2020-Advanced Optimization Tec... 2020-AOTHS', 'VLSI -AY 20-21', and 'Data Communications and Netwo... DCN-2020-21'. On the right, there are sections for 'Coming Up' (Nothing for the next week), 'Recent Feedback' (Nothing for now), and buttons for 'Start a New Course' and 'View Grades'. An 'Activate Windows' watermark is visible in the bottom right corner.

The screenshot shows a virtual class session in a web browser. The browser window displays a 'Public Chat' window on the left with a list of users and a chat area. The main content area shows a video feed of a participant, a shared screen displaying a network diagram, and a list of participants. The network diagram shows a complex topology with multiple nodes and connections. The chat area contains messages from participants, including 'SHIVAKANTH REDDY_18VE1A0401...' and 'polapally_venugopal_18VE1A0446...'. The bottom of the screen shows a Windows taskbar with the time 12:17 PM and date 8/25/2020.

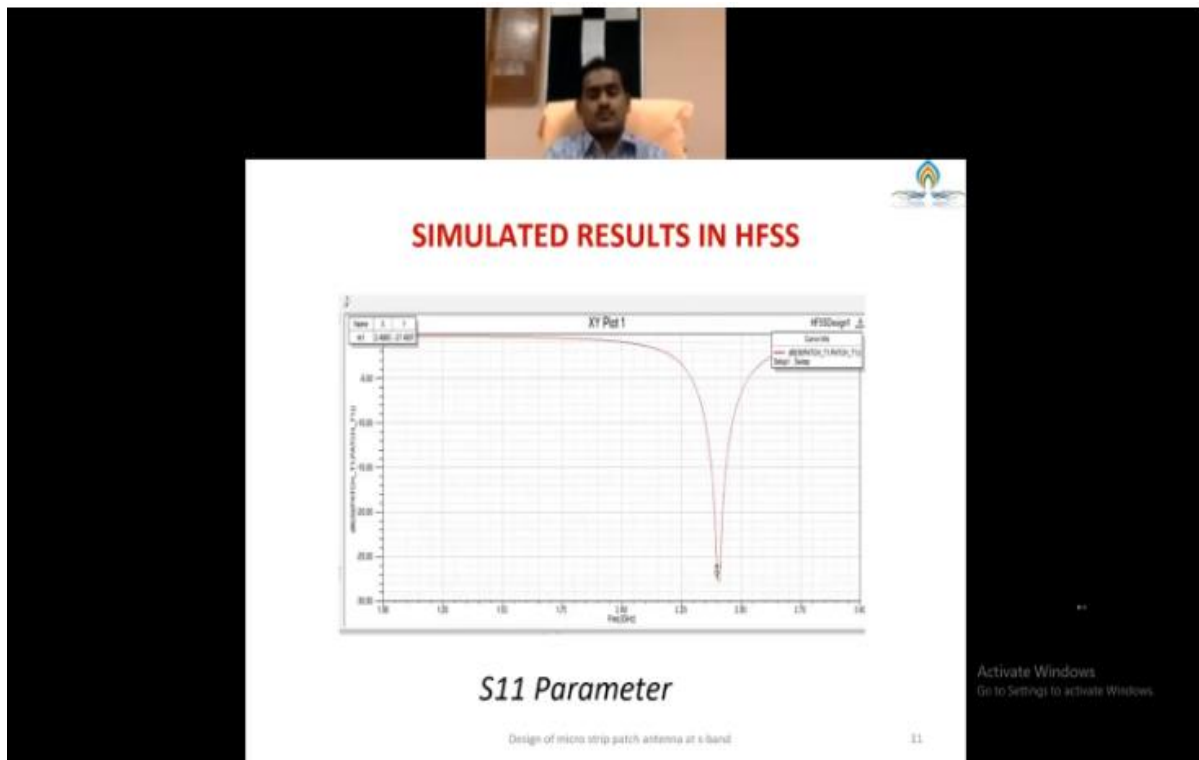
3.4.3 Virtual class using ZOOM

<https://drive.google.com/drive/folders/1ogZ7B1dg7NjsLV5FXUWHREO0DuiAGn8z?usp=sharing>



3.4.4 Cisco WeBex

https://drive.google.com/drive/folders/1pJsJVEIGFbCUR4AxR88Enh_n9-c_dCf9?usp=sharing



3.4.5 Google Meet

https://drive.google.com/file/d/13JyAclYbtVUBz6yU0QeuO7tk_vjCv3kp/view?usp=sharing

Video player interface showing a Google Meet session. The video title is "rjq-ydpx-smv (2020-10-07 at 22:19 GMT-7)". The video content shows a man standing next to a whiteboard. The whiteboard has the title "K-Map (Karnaugh Map)" and "Variable K-Map". It displays two 2x2 Karnaugh maps for variables A and B.

Left K-Map (Variables A, B):

	\bar{B}	B
\bar{A}	0	1
A	2	3

Right K-Map (Variables A, B):

	\bar{B}	B
\bar{A}	M_0 $A+B$	M_1 $A+B$
A	M_2 $A+B$	M_3 $A+B$

Video player controls show a progress bar at 27:49 / 49:44.

Video player interface showing a Google Meet session. The video title is "Sallela Sallela and 45 more". The video content shows a whiteboard with handwritten notes and diagrams related to complex exponential signals.

IV Complex Exponential Signal:

Case (iv) if $\sigma > 0$ and $\omega \neq 0$

$$x(t) = e^{\sigma t} e^{j\omega t} = e^{\sigma t} [\cos \omega t + j \sin \omega t]$$

Exponentially Growing

Exponentially Growing Sinusoidal Signal

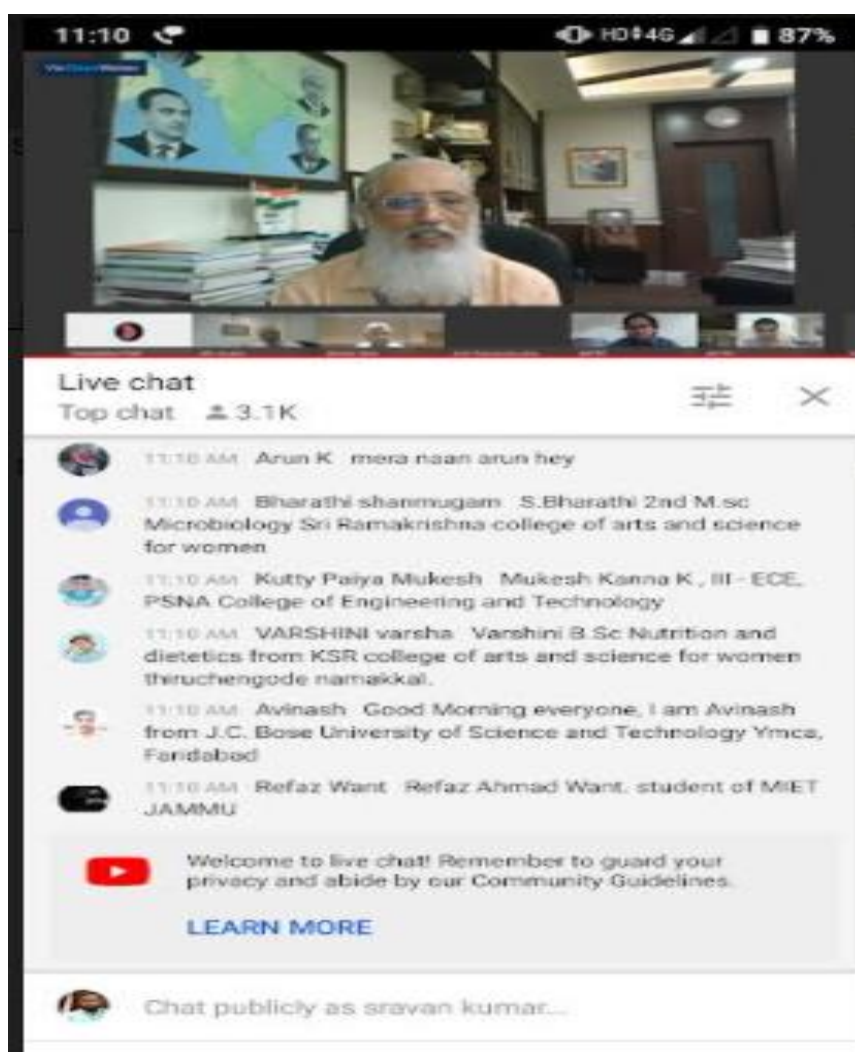
Case (iii) if $\sigma < 0$ and $\omega = 0$

$$x(t) = e^{\sigma t} e^{j\omega t} = e^{-\sigma t}$$

Exponential decay

The whiteboard also includes a graph of an exponentially growing sinusoidal signal and a graph of an exponentially decaying signal.

Meeting of Faculty Innovation cell in Virtual room



4. NPTEL

YEAR	SEM	Total No. of students certified	No. of Gold Certifications	No. of Silver Certifications	No. of Elite Certifications	No. of passed Certifications	Topper	COVID Impact Pass
2020-21	ODD	3		1		2		
2020-21	EVEN	1		1				
2019-20	ODD	11		3	6	1		
2019-20	EVEN	30	2		2			26
2018-19	ODD	13		1	8	4	1	
2018-19	EVEN	12	1	1	6	4	1	

TOTAL CERTIFICATION TILL DATE-70

List of Faculty Members Certified**Sep-Dec'2020**

S.No	Course Name	Faculty Name	Department	Certificate Type	Topper
1	Digital Image processing	A.SOWJANYA	ECE	Successfully completed	
2	Digital Image processing	K SONALI SWAROOP	ECE	Successfully completed	
3	Introduction to Industry 4.0 & Industrial Internet of things	KANTIPUDI MVV PRASAD	ECE	Elite+Silver	Elite+Silver

List of Faculty Members Certified**Jan- Mar'2021**

S.No	Course Name	Faculty Name	Department	Certificate Type	Topper
1	Discrete time processing	KOTHA MANOHAR	ECE	Elite+Silver	Elite+Silver

List of Faculty Members Certified

July- Nov'2019

S.No	Course Name	Faculty Name	Department	Certificate Type	Topper
1	Digital Circuits - Online	CHINNAM SUDHA VENKATA MARUTHI RAO	ECE	Elite+Silver	
2	Digital Circuits - Online	YEDULAPALLY SATISHKUMAR	ECE	Elite	
3	Digital Circuits - Online	SEGONDA SWAPNA	ECE	Elite	
4	Hardware modeling using verilog - Online	MOHAMMED RAFI SHAIK	ECE	Elite	
5	Introduction to Internet of Things - Online	KANTIPUDI MVV PRASAD	ECE	Elite+Silver	Topper of 5% in this course
6	Designing Learner-centric e- learning in STEM disciplines	KANTIPUDI MVV PRASAD	ECE	Elite	
7	Introduction To Learning Analytics	KANTIPUDI MVV PRASAD	ECE	Elite	
8	Microelectronics Devices To Circuits - Online	VUPPALA SWATHI	ECE	Elite	
9	Technical English for engineers	PRAVEENA ALLADI	ECE	Elite+Silver	
10	Introduction to Operating Systems	PRAVEENA ALLADI	ECE	Successfully completed	
11	Introduction to Internet of Things - Online	A.SOWJANYA	ECE	Elite	

List of Faculty Members Certified

July- Sep'2019

S.No	Course Name	Faculty Name	Department	Certificate Type	Topper
1	Qualitative Research methods and research writing	PRAVEENA ALLADI	ECE	Elite	
2	Medical Image Analysis	KANTIPUDI MVV PRASAD	ECE	Elite	
3	Principles of Communication Engineering-I	KOTHA MANOHAR	ECE	Elite+Gold	Elite+Gold
4	Principles of Signals and systems	KOTHA MANOHAR	ECE	Elite+Gold	Elite+Gold
5	Discrete Time Signal Processing	KOTHA MANOHAR	ECE	Modified Pass	
6	Fundamentals of MIMO Wireless Communication	PRAVEENA A	ECE	Modified Pass	
7	Effective Engineering Teaching In Practice	PRAVEENA A	ECE	Modified Pass	
8	Discrete Time Signal Processing	YEDULAPALLY SATISHKUMAR	ECE	Modified Pass	
9	Microwave Integrated Circuits	YEDULAPALLY SATISHKUMAR	ECE	Modified Pass	
10	Introduction to Industry 4.0 and Industrial Internet of Things	KANTIPUDI MVV PRASAD	ECE	Modified Pass	
11	An Introduction to Artificial Intelligence	KANTIPUDI MVV PRASAD	ECE	Modified Pass	
12	Microprocessors And Microcontrollers	RAMACHANDRA KUMAR	ECE	Modified Pass	
13	Introduction to Research	MOHAMMED RAFI SHAIK	ECE	Modified Pass	
14	Principles of Signals and Systems	YEDULAPALLY SATISHKUMAR	ECE	Modified Pass	
15	Electromagnetism	YEDULAPALLY SATISHKUMAR	ECE	Modified Pass	
16	An Introduction to Artificial Intelligence	PRAVEENA A	ECE	Modified Pass	
17	Antennas	PRAVEENA A	ECE	Modified Pass	

18	Microprocessors And Microcontrollers	SEGONDA SWAPNA	ECE	Modified Pass	
19	Introduction to internet of things	CHINNAM SUDHA VENKATA MARUTHI RAO	ECE	Modified Pass	
20	Digital Electronic Circuits	BHARGAVI ARUN KULKARNI	ECE	Modified Pass	
21	Microprocessors And Microcontrollers	BHARGAVI ARUN KULKARNI	ECE	Modified Pass	
22	Principles of Communication Systems - I	K SONALI SWAROOP	ECE	Modified Pass	
23	Microprocessors And Microcontrollers	K SONALI SWAROOP	ECE	Modified Pass	
24	Microprocessors And Microcontrollers	DR.J.PANDU RANGA RAO	ECE	Modified Pass	
25	Principles of Signals and Systems	SREENIVASU BHUKYA	ECE	Modified Pass	
26	Principles of Communication Systems - I	SREENIVASU BHUKYA	ECE	Modified Pass	
27	Microprocessors And Microcontrollers	VUPPALA SWATHI	ECE	Modified Pass	
28	Fundamentals of semiconductor devices	VUPPALA SWATHI	ECE	Modified Pass	
29	Introduction to internet of things	C JOHN MOSES	ECE	Modified Pass	
30	Data Mining	SHAIK FAIROOZ	ECE	Modified Pass	

List of Faculty Members Certified

July-Oct'2018

S.No	Course Name	Faculty Name	Dept	Certificate Type	Topper
1	Discrete Time Signal Processing	K SONALI SWAROOP	ECE	Successfully completed	
2	Digital Circuits	PRAVEENA ALLADI	ECE	Successfully completed	
3	Digital Circuits	SOWJANYA ADAPA	ECE	Elite	
4	Digital Circuits	K SONALI SWAROOP	ECE	Elite	
5	Digital Circuits	VUPPALA SWATHI	ECE	Elite	
6	Digital Circuits	B SPANDANA	ECE	Elite	
7	Digital Circuits	G. RAMACHANDRA KUMAR	ECE	Elite	
8	Microwave Theory and Techniques	DR V A SANKAR PONNAPALLI	ECE	Successfully completed	
9	Computer Architecture	B SPANDANA	ECE	Elite	
10	Introduction to Wireless and Cellular Communications	PRAVEENA ALLADI	ECE	Elite	
11	Introduction to Wireless and Cellular Communications	SOWJANYA ADAPA	ECE	Elite	
12	Digital Image Processing	VUPPALA SWATHI	ECE	Elite	
13	Introduction to Electromagnetic Theory	Y SATISH KUMAR	ECE	Successfully completed	

List of Faculty Members Certified

Jan-Apr'2018

S.No	Course Name	Faculty Name	Department	Certificate Type	Topper
1	Real Time Operating System	PRAVEENA A	ECE	Elite	
2	Introduction to Internet of Things	PRAVEENA A	ECE	Elite+gold	
3	Introduction to Internet of Things	G. RAMACHANDRA KUMAR	ECE	Elite	
4	Principles of Signals and Systems	K SONALI SWAROOP	ECE	Successfully completed	
5	Principles of Signals and Systems	SOWJANYA ADAPA	ECE	Elite	
6	Microprocessors and Microcontrollers	CHINNAM SUDHA VENKATA MARUTHI RAO	ECE	Elite	
7	Antennas	Y SATISHKUMAR	ECE	Elite	
8	Introduction to Research	PRAVEENA A	ECE	Elite+Silver	Topper of 2% in this course
9	Embedded System Design with ARM	PRAVEENA A	ECE	Successfully completed	
10	Basics of Software Defined Radios and Practical Applications	KANTIPUDI MVV PRASAD	ECE	Successfully completed	
11	Effective Engineering Teaching In Practice	DR V A SANKAR PONNAPALLI	ECE	Successfully completed	
12	Managing Intellectual Property in Universities	DR V A SANKAR PONNAPALLI	ECE	Elite	

NPTELTOPPER CERTIFICATES

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://npTEL.ac.in/noc/>

Roll No: NPTEL21EES4S11611105
 To
 KOTHA MANOHAR
 R.NO-4-1802P
 MAYUR SARSEPURAM GATED COMMUNITY
 HYDERABAD
 TELANGANA - 501505
 Ph. NO: 9678858585

Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate



No. of credits recommended by NPTEL:2
 An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to
KOTHA MANOHAR
 for successfully completing the course
Discrete Time Signal Processing

with a consolidated score of **86** %

Online Assignments	20.83/25	Proctored Exam	65.25/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **41**


 Prof. G P Raja Sekhar
 Dean, Continuing Education
 IIT Kharagpur

Jan-Mar 2021
 (8 week course)


 Prof. Debjani Chakraborty
 Coordinator, NPTEL
 IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL21EES4S11611105

To validate and check scores: <https://npTEL.ac.in/noc/>

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL20CS69S61601134

To
KANTIPUDI MVV PRASAD
NEW GAYATHRI NAGAR,
MEERPET
HYDERABAD
TELANGANA - 500097
PH. NO (9586408854



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=80	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3
An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

NPTEL Online Certification
(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to
KANTIPUDI MVV PRASAD
for successfully completing the course
Introduction to Industry 4.0 and Industrial Internet of Things
with a consolidated score of **76** %

Online Assignments	24.38/25	Proctored Exam	52.04/75
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Total number of candidates certified in this course: **3610**


Prof. G P Raja Sekhar
Dean, Continuing Education
IIT Kharagpur

Sep-Dec 2020
(12 week course)


Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur


 Indian Institute of Technology Kharagpur



Roll No: NPTEL20CS69S61601134

To validate and check scores: <https://nptel.ac.in/noc/>

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://npTEL.ac.in/noc/>

Roll No: NPTEL20EE16S21600369

To
KOTHA MANOHAR
R.NO.4-18D/57
MUTRI SURESHPURAM GATED COMMUNITY,
PEDDANABERPET
HYDERABAD - 501506
PH. NO :9010858555



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL3
An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

NPTEL Online Certification
(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to
KOTHA MANOHAR
for successfully completing the course

Principles of Communication Systems - I

with a consolidated score of **92** %

Online Assignments	24.06/25	Proctored Exam	67.5/75
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Total number of candidates certified in this course: 76


Prof. Rajesh M. Hegde
Chairman, Centre for Continuing Education
IIT Kanpur

Jan-Apr 2020
(12 week course)


Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL20EE16S21600369

To validate and check scores: <https://npTEL.ac.in/noc/>

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://npTEL.ac.in/mvc/>


 Roll No: NPTEL19HS31511400592

To
 PRAVEENA ALLADI
 GRIVAS INSTITUTE OF ENGINEERING AND
 TECHNOLOGY, SRI RAMPALAGUDA, NARLOLE
 HYDERABAD
 TELANGANA
 500048
 PH. NO. 97386027171

Score	Type of Certificate
>=60	Elite+Gold
75-88	Elite+Silver
>=80	Elite
40-88	Successfully Completed
<40	No Certificate



No. of credits recommended by NPTEL:2
An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to
PRAVEENA ALLADI
 for successfully completing the course
Technical English for Engineers



with a consolidated score of **76** %

Online Assignments	21.25/25	Proctored Exam	54.75/75
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Prof. Devesh Jaiswal
Chairman
Centre for Continuing Education, IITM

Total number of candidates certified in this course: 2734

Jul-Sep 2019
(8 week course)


Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras




Indian Institute of Technology Madras



Roll No: NPTEL19HS31511400592

To validate and check scores: <https://npTEL.ac.in/mvc/>




Roll No: NPTEL18EE33521381848

To
SRIYAS INSTITUTE OF ENGINEERING &
TECHNOLOGY
HYDERABAD



Score	Type of Certificate
≥90	Elite + Gold Medal
80-89	Elite
60-79	Successfully Completed the course
<60	No Certificate


No. of credits recommended by NPTEL: 3



Elite


NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to
SOWJANYA ADAPA
for successfully completing the course
Digital Circuits
with a consolidated score of **87 %**


Online Assignments	22.44/25	Proctored Exam	64.5/75
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Prof. Anupam Basu
NPTEL Coordinator
IIT Kharagpur

Total number of candidates certified in this course: **4707**

Jul-Oct 2018
(12 week course)



Prof. Adrijit Goswami
Dean
Continuing Education, IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL18EE33521381848

To validate and check scores: <http://npst.ac.in/moc>

