

E-Newsletter of Electronics & Communication Engg. Department (July to Dec-2020)

Greetings from the E&C Dept., GEC-Gandhinagar.

It's been a privilege to present the E-newsletter of the E & C Department (July-Dec 2020) from the desk of the Head of Department-E&C. As per the Vision & Mission statements of this department, we are imparting quality education in the field of E&C Engineering and allied areas through various means of teaching-learning during this current situation of pandemic CoVID-19. The faculties of E&C dept. have tried their best during this period of pandemic to impart effective teaching-learning in many different ways i.e. Use of ICT in almost all semester classes, Use of E-Classroom provided by Microsoft Teams, Use of Virtual Laboratory (Supported By IITs) and so on. Thanks to my team-EC and big thanks to the key stakeholders of the department-my beloved Students for providing wholeheartedly support during this so called "New Normal" situations too. At this point, I must appreciate the efforts from all the stakeholders of the E & C department from the bottom of my heart. At last it proves that we together will grow at our best in spite of any so called ab-normal situations. We will continue this beautiful journey of teaching-learning together.

Stay Healthy and Stay Safe.

Best Wishes,

Prof. (Dr.) Kishor G. Maradia

Head of E&C Dept. - GEC-Gandhinagar

About the Institute: GEC-Gn¹



Vision of the Institute:

To be a premier engineering institution, imparting quality education for innovative solutions relevant to society and environment.

Mission of the Institute:

- To develop human potential to its fullest extent so that intellectual and innovative engineers can emerge in a wide range of professions.
- To advance knowledge and educate students in engineering and other areas of scholarship that will best serve the nation and the world in future.
- To produce quality engineers, entrepreneurs and leaders to meet the present and future needs of society as well as environment.

About the Department: E&C Dept.²

Vision of the E&C Department:

To produce globally competitive and resourceful EC Engineers to bring out research, innovation and teamwork for development in various fields of Electronics and Communication Engineering.

¹<http://www.gecgh.cteguj.in/>

²<http://www.gecgh.cteguj.in/programs/detail/74>

Mission of the E&C Department:

- To impart quality education in the fields of Electronics and Communication Engineering through effective teaching-learning processes, well equipped laboratory facilities and collaborative ventures with industries.
- To provide the students of E&C engineering an environment of an academic freedom that will ensure the exchange of ideas and the dissemination of knowledge in this discipline.
- To provide the platform for students to perform the project work related to needs of society.

Program Educational Objectives (PEOs) of E&C Department:

I. To prepare graduates to excel in postgraduate programmes or pursue higher studies or to succeed in industry / technical profession through global, rigorous education.

II. To train graduates with good scientific and engineering breadth so as to comprehend, analyze, design, and create novel products and solutions for the real life problems.

III. To inculcate in graduates professional and ethical attitude, effective communication skills, teamwork skills, multidisciplinary approach, and an ability to relate engineering issues to broader social context.

Program Specific Outcomes (PSOs) of E&C Department:

PSO-I: The ability to implement and apply knowledge of Electronics and Communication Engineering subjects in the analysis, design and development of various types of electronic and communication systems.

PSO-II: Demonstrate soft skills, aptitude and technical skills & knowledge to work in the industry and Research and Development organization.



Faculties @ E&C Dept.



MR. KISHOR KUMAR HARADIA

DESIGNATION	PROFESSOR
QUALIFICATION	PH.D.(ELECTRONICS & COMMUNICATION)
EXPERIENCE	25 YEARS
AREA OF INTEREST	WIRELESS COMMUNICATION & NETWORKS, OPTICAL COMMUNICATION & NETWORKS, SATELLITE COMMUNICATION, DIGITAL COMMUNICATION, IMAGE PROCESSING, REMOTE SENSING.



MR. TEJASH KUMAR SHETH

DESIGNATION	ASSOCIATE PROFESSOR
QUALIFICATION	M.E.(COMMUNICATION SYSTEM ENGINEERING)
EXPERIENCE	17 YEARS
AREA OF INTEREST	SIGNAL PROCESSING



MS. AVANI VITTHALANI

DESIGNATION	ASSISTANT PROFESSOR
QUALIFICATION	M.E.(EBC)
EXPERIENCE	12 YEARS
AREA OF INTEREST	WIRELESS COMMUNICATION



MR. JIGNESH BHAVSAR

DESIGNATION	ASSISTANT PROFESSOR
QUALIFICATION	MASTER OF ENGINEERING
EXPERIENCE	30 YEARS
AREA OF INTEREST	IMAGE PROCESSING, SIGNAL PROCESSING



MR. ABHINAV DAVE

DESIGNATION : ASSISTANT PROFESSOR
QUALIFICATION : ME
EXPERIENCE : 10 YEARS
AREA OF INTEREST : ELECTRONICS AND COMMUNICATION



MR. SANJAYBHAI PATEL

DESIGNATION : ASSISTANT PROFESSOR
QUALIFICATION : M.E. IN ELECTRONICS AND COMMUNICATION SYSTEMS
EXPERIENCE : 10 YEARS
AREA OF INTEREST : DIGITAL IMAGE PROCESSING, COMPUTER NETWORK, INTERNET OF THINGS



MR. DEVENDRAKUMAR PATEL

DESIGNATION : ASSISTANT PROFESSOR
QUALIFICATION : B.E.(EC), M.E.(EC-CSE)
EXPERIENCE : 10 YEARS
AREA OF INTEREST : EMBEDDED SYSTEM, VLSI, IMAGE PROCESSING



MR. NITESHKUSMAR BHANWAR

DESIGNATION : ASSISTANT PROFESSOR
QUALIFICATION : M.E. (COMMUNICATION SYSTEM ENGINEERING)
EXPERIENCE : 10 YEARS
AREA OF INTEREST : SIGNAL PROCESSING, WIRELESS COMMUNICATION



MR. SHARADMHAMMED MODADKA

DESIGNATION : ASSISTANT PROFESSOR
QUALIFICATION : PH.D
EXPERIENCE : 10 YEARS
AREA OF INTEREST : ANALOG ELECTRONICS, RF & MICROWAVE



MR. SANDEEP DANDGA

DESIGNATION : ASSISTANT PROFESSOR
QUALIFICATION : PURSUING PHD AND MASTER OF ENGINEER IN COMMUNICATION SYSTEM ENGINEERING
EXPERIENCE : 10 YEARS
AREA OF INTEREST : WIRELESS COMMUNICATION, ADVANCE CHANNEL CODING TECHNIQUE, INFORMATION THEORY



MS. NEENA PRAJAPATI

DESIGNATION : ASSISTANT PROFESSOR
QUALIFICATION : M.E.E.C.
EXPERIENCE : 10 YEARS
AREA OF INTEREST : SIGNAL PROCESSING



MR. SANDEEP RAJPUT

DESIGNATION : ASSISTANT PROFESSOR
QUALIFICATION : MASTER OF ENGINEERING IN ELECTRONICS AND COMMUNICATION ENGINEERING
EXPERIENCE : 4 YEARS
AREA OF INTEREST : FREE SPACE OPTICAL COMMUNICATION, DIGITAL COMMUNICATION

	MR. UJJVAL DAVE DESIGNATION : ASSISTANT PROFESSOR QUALIFICATION : M.TECH (ELECTRONICS & COMMUNICATION) EXPERIENCE : 4 YEARS AREA OF INTEREST : EMBEDDED SYSTEMS, COMMUNICATION
	MISS. DEVUL RATNAKAR DESIGNATION : ASSISTANT PROFESSOR QUALIFICATION : B.E. EXPERIENCE : 13 YEARS AREA OF INTEREST : ELECTRONICS & COMMUNICATION
	MR. RUSHESH GAJJAR DESIGNATION : ASSISTANT PROFESSOR QUALIFICATION : B.E. ELECTRONICS & COMMUNICATION ENGINEERING EXPERIENCE : 13 YEARS AREA OF INTEREST : MICROPROCESSOR, MICROCONTROLLER AND INTERFACING
 Mr. BHARATSHAI PARMAR INSTRUCTOR	

Facilities @ E&C Dept.

At E&C Department, students are trained across the entire spectrum, which goes much beyond curriculum. E&C Department is having six separate laboratories with all sophisticated equipment, instruments & trainers under State Government & TEQIP-II grant. **We feel proud to have the state of the art facilities in the following four major technical areas to be treated as "Four Pillars of E&C Dept."** namely **1. Wireless & Satellite Communication, 2. Design Laboratory (sponsored by GUJCOST-DST), 3. IOT Centre (Supported by INTEL), 4. Antennas & RF.** This includes many sophisticated instruments i.e. WiCOMM (Wireless Communication) Trainer Kit, SATCOM Trainer Kit, Handheld Spectrum Analyzer, Embedded system development board, Mixed signal Oscilloscope, IOT Board (Intel Galileo Gen-2), IRNSS Receiver (NavIC), Software Defined Radio (SDR) Kit, Electronics Workbench etc. The above facilities are being utilized widely for research & development purpose to UG, PG & PhD Students of the Institute as well as across the state of Gujarat.

Glimpses of Lab Facilities...





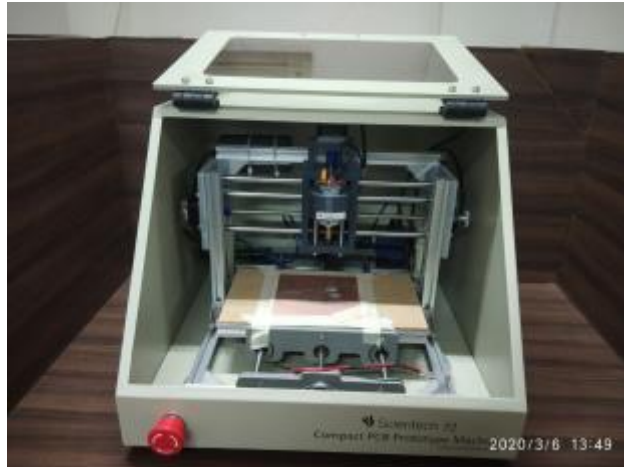




1 - Design Components



2 - Design Components



3 - Design Components



4 - Design Components



In this issue...



In this issue while dealing with the "New Normal" situation, we will take you to the glimpse of the following activities undergone by the E&C Dept. during the period of July to December-2020.

- **Department Activities:**
- **Faculty Achievements:**
- **Faculty Training / Publications:**
- **Student's Achievements :**
- **Self-learning by Students & Faculties:**
- **Creative Corner of E&C Dept.:**

Department Activities:



A Webinar on "Utility of Design lab for Research and Start-up Projects"

To project the focus on the utility of Design Lab, which was established in the year-2020 and to facilitate the usage of equipment's available under Design Lab, E&C department organized a Live Webinar on the "Utility of Design lab for Research and Start-up Projects" on an Engineers Day Dt. 15/09/2020 via Google Meet.

Department of Electronics & Communication Engineering
Government Engineering College, Sector-28, Gandhinagar

DST-GUJCOST Sponsored DESIGN LAB

LIVE WEBINAR ON
"Utility of Design Lab for Research and Startup Projects"

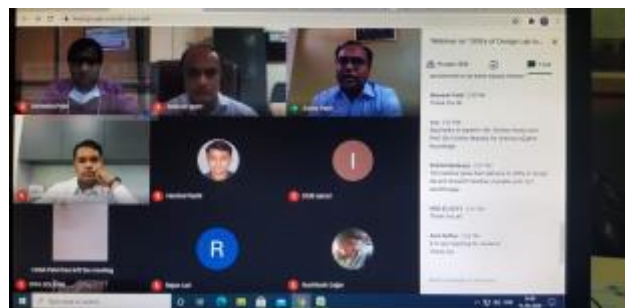
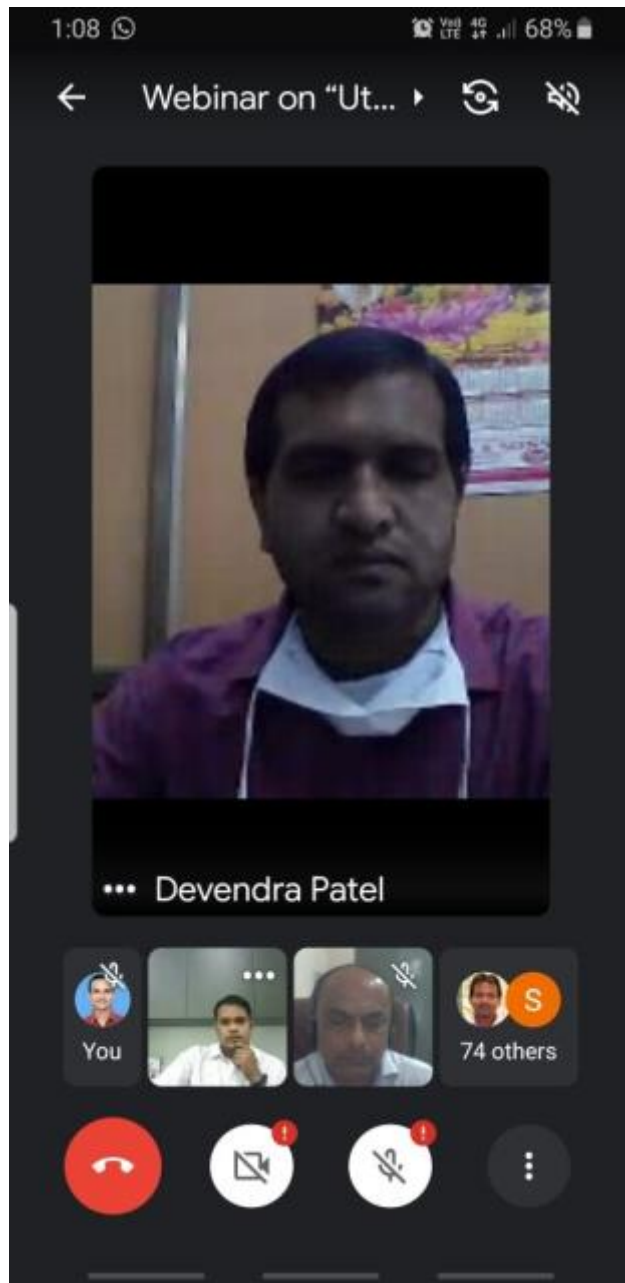
Date: 15/09/2020 (Engineers Day) Time: 1:00pm to 3:00pm

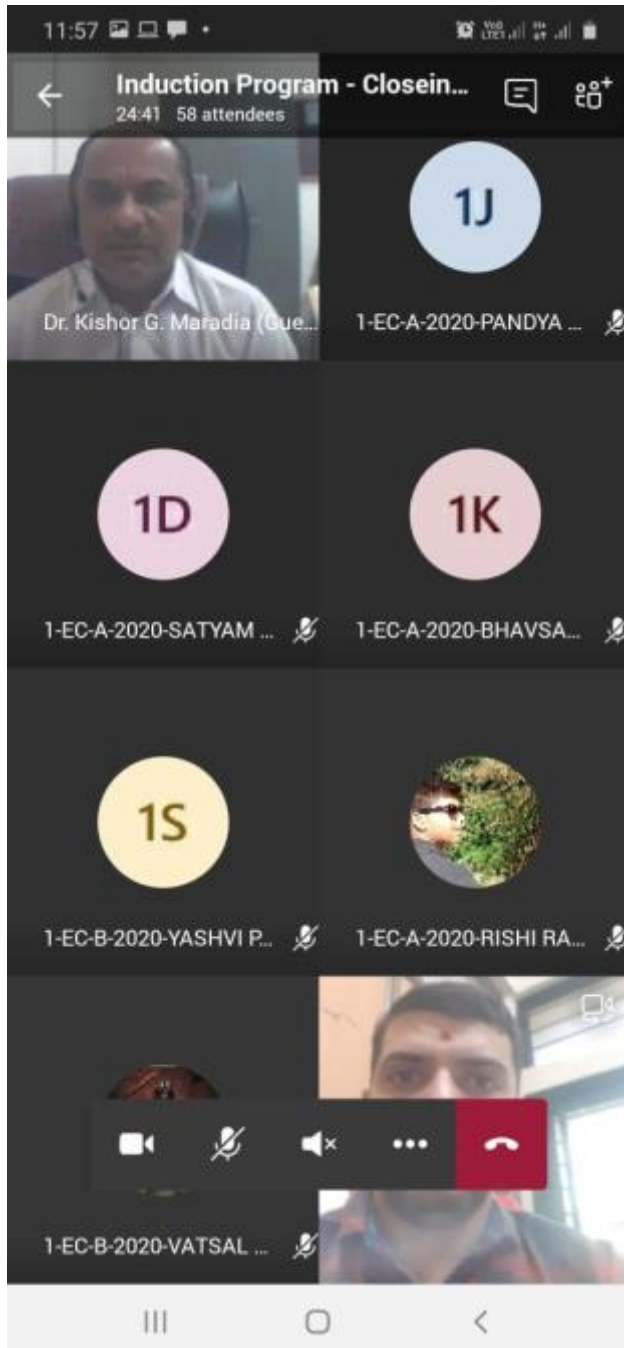
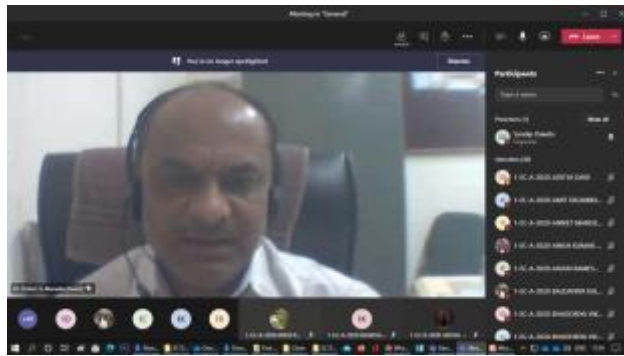
Speakers:
1. Chintan Kharva
Application Engineer,
Royal Electronics Sales and Services.
2. Prof. (Dr.) Kishor G. Maradia
Head of Department (EC)

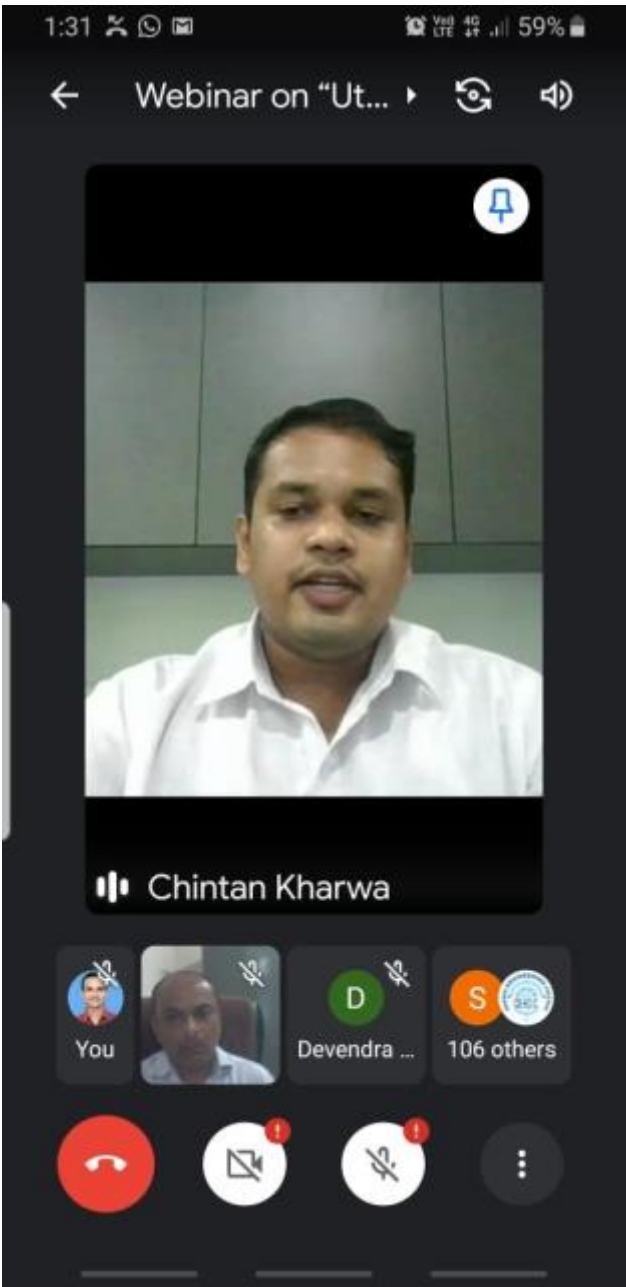
Patron:
Dr. Sweta P. Dave (Principal)
Dr. Narottam Sahoo (Advisor), GUJCOST.

Faculty Coordinators:
Prof. Devendra Patel (EC), Prof. Suhas Patel (EC)

Registration Link: <https://forms.gle/QCKKPrskb3mthFaz8>







1:14

VoLTE 4G 66%



Webinar on "Ut..."



Narottam Sahoo



You



109 others



1:09

4G LTE 68%



Webinar on "Ut..."



AKHIL BIJU joined



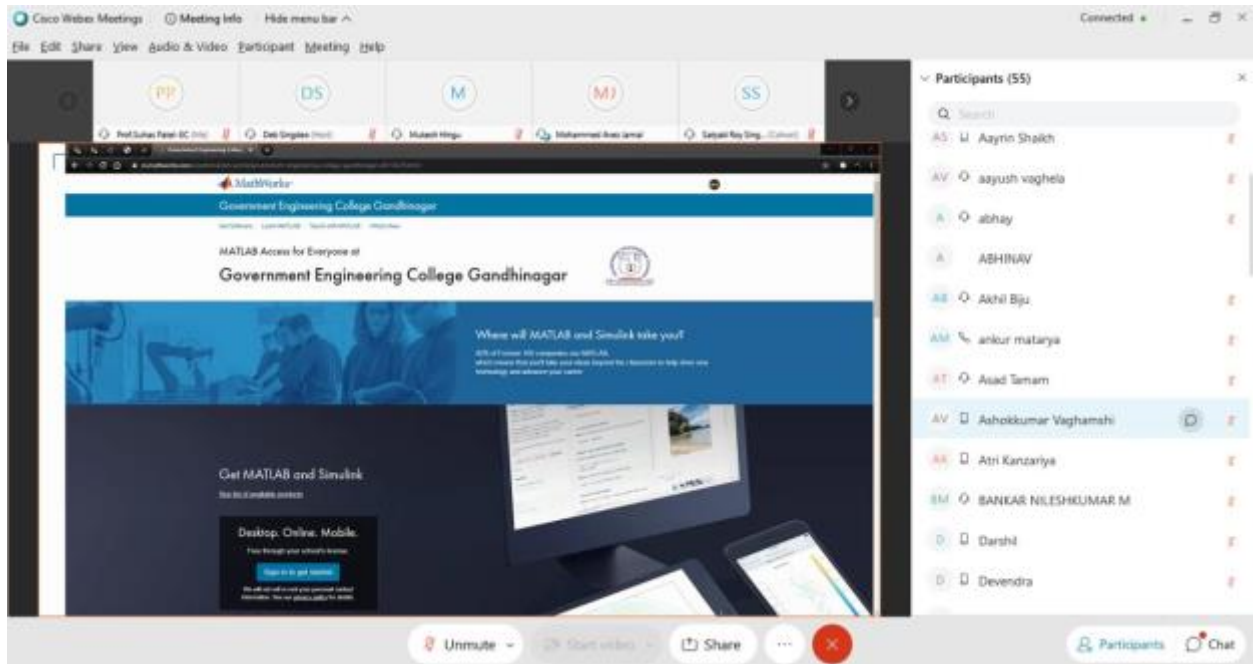
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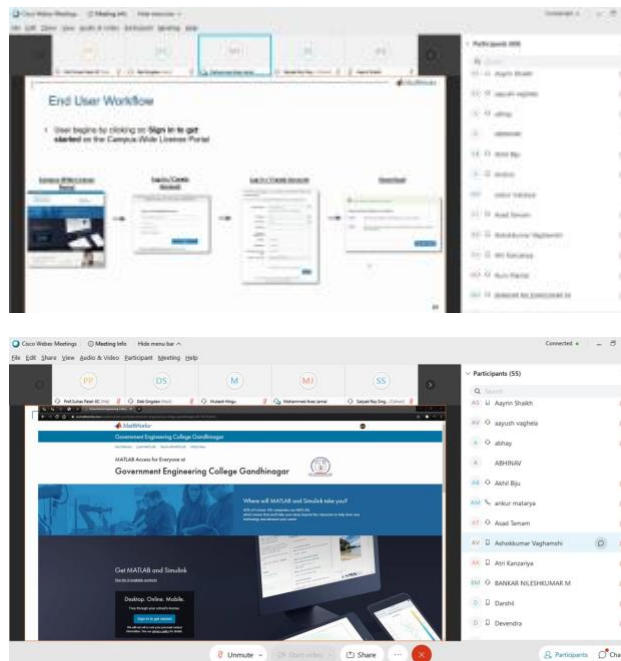
79 others

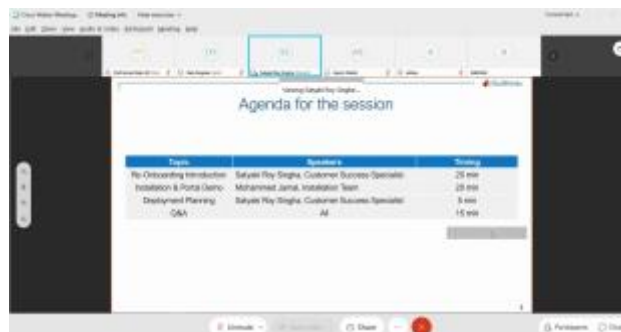


Webinar on "Introduction to MATLAB and Simulink"



A Webinar organized on the topic of "Introduction to MATLAB and Simulink" by Satyaki R. Singha, Education Customer Success Specialist – Western India, The MathWorks jointly with E&C Dept. ,Government Engineering College, Gandhinagar on 29/9/2020 via Online Platform: Cisco Webex







Tech Talks @ EC Dept.



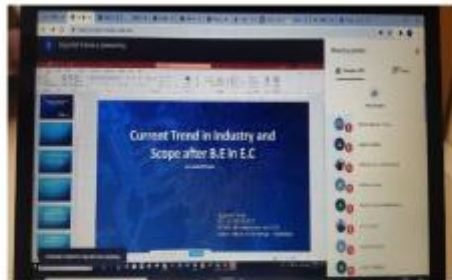
E&C dept. have organized a series of expert lectures during this "New Normal" situation by an eminent experts from Industry as well as academia in an online mode towards the larger benefits of students.

Sr. No.	Topic of the talk	Expert Details	Date & Mode of Conduction
1	My journey in VLSI Industry & career Opportunities in VLSI Industry	Mr. Mohammad Zuber Pirumiya Malek, DFT technical Manager, Intel India Pvt. Ltd., Bangalore	Dt. 11/10/2020 via Online Platform: Google Meet as part of Alumni Meet-2020.
2	Current trends in Industry and Scope after B.E in E&C	Mr. Sugandh Tanna, Analog IC Design Engineer, Maxim India Ltd., Bangalore	Dt. 11/10/2020 via Online Platform: Google Meet as part of Alumni Meet-2020.
3	Introduction to VLSI Industry	Mr. AnishKumar Nair, Physical design Engineer, E-Infochip, Ahmedabad	Dt. 11/10/2020 via Online Platform: Google Meet as part of Alumni Meet-2020.
4	Better Career Perspective through Communication & Soft Skills	Prof. Parul Popat, Associate professor, SP University, Gujarat	Dt. 27/10/2020 via Online Platform: MS Teams.
5	Introduction to EC Engineering: An Overview of Electronics Sector	Prof. (Dr.) Kiran Parmar, Professor, Electrical Department, Adani Institute of Infrastructure engineering, Ahmedabad	Dt. 27/10/2020 via Online Platform: MS Teams.

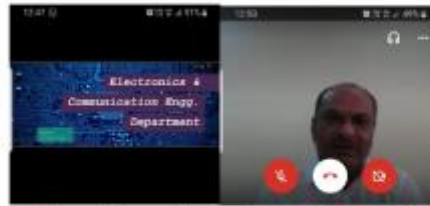
E&C Online Alumni Meet- 2020



The Department of ELECTRONICS & COMMUNICATION ENGINEERING had organized an alumni meeting 2020” for all batches (2008 – 2020) on 11th October 2020-Sunday through online platform Google meet. In total, 112 nos. stakeholders which includes alumni, students, industry persons, parents and faculty members who had linkage with E&C dept. -GEC Gandhinagar have participated in the online alumni meet. Our past alumni and faculty members have participated in this Google Meet by delivering the expert talk and sharing their memories with the department, most of them volunteered to render services for the benefit of the current students of Electronics & Communication Engineering Department, Government Engineering College, sector-28, Gandhinagar.





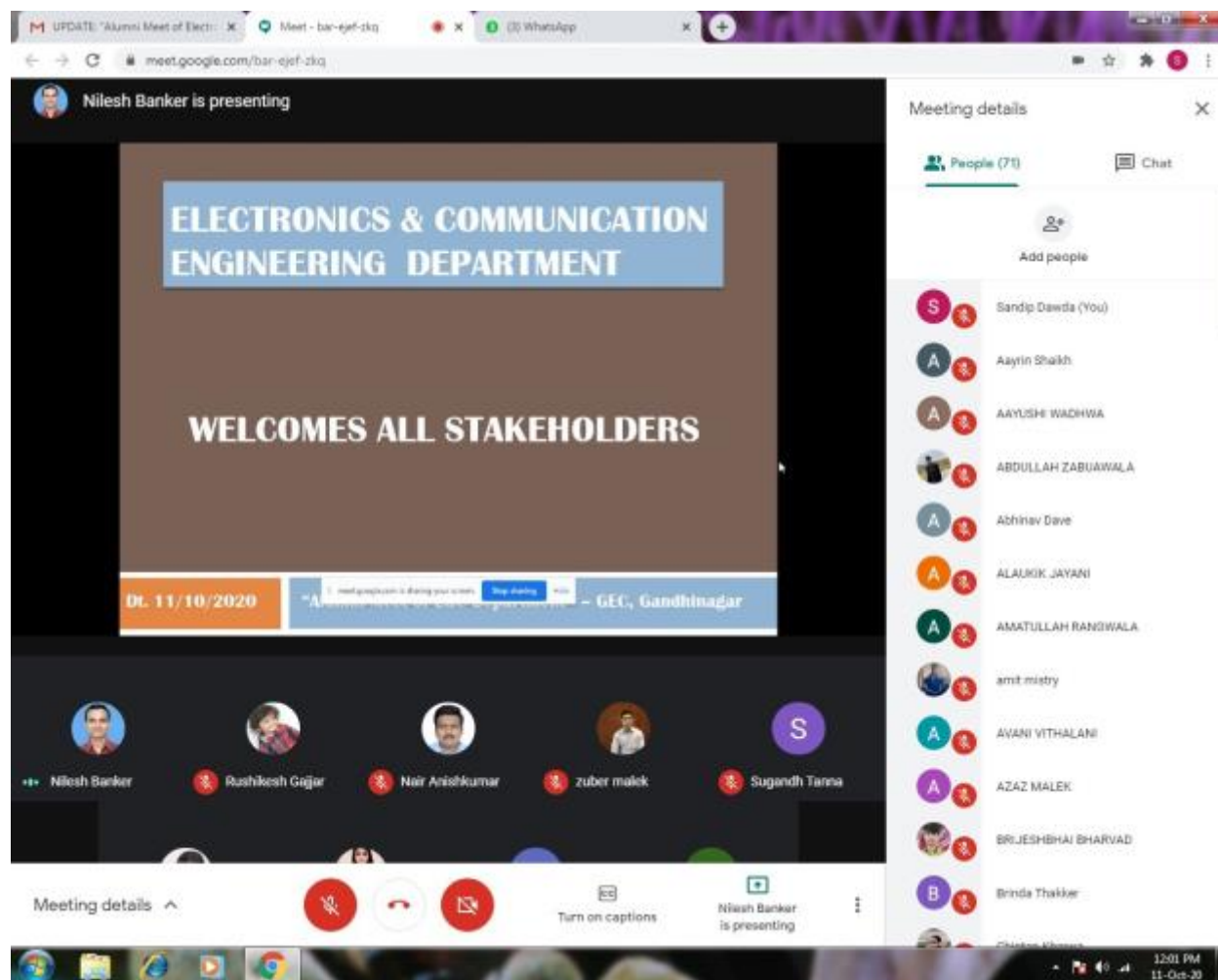








E&C Stakeholder Online Meet-2020



The Electronics & Communication Engineering Department has organized Stakeholder's Online Google Meet on 11th October 2020-Sunday. In total, 134 nos. of stakeholders which includes alumni, current students, industry persons, parents and faculty members who had linkage with E&C dept. -GEC Gandhinagar have participated in this online meet.

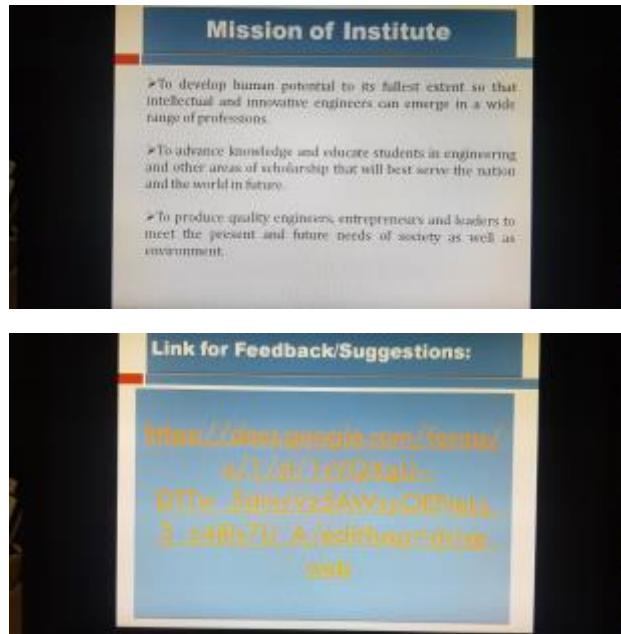
The consent/feedback/suggestions about the Institute SWOC and Vision & Mission statements as well as the Dept. SWOC, Vision & Mission statements, Program Educational Objectives (PEO's) & Program Outcomes (PO's) of E&C Dept. were taken through the dedicated Google Form shared with the stakeholders.

[illegible]

Vision of Institute

- To be a premier engineering institution, imparting quality education for innovative solutions relevant to society and environment.

GEC-Gandhinagar: SWOC	
STRENGTH	WEAKNESS
<ul style="list-style-type: none"> □ Well qualified, trained, motivated, dynamic, enthusiastic faculty □ Close proximity to industries and R&D organizations □ Good infrastructure with Wi-Fi and internet facility □ Well defined administrative policies □ Excellent student environment 	<ul style="list-style-type: none"> □ Shortage of supporting staff □ Faculty Transfer □ Financial power to institute authority □ High academic duties assign to faculties
OPPORTUNITY	CHALLENGES
<ul style="list-style-type: none"> □ Strengthening Industry – institute partnership □ Readiest start up / innovation policy □ Interdisciplinary research □ Alumni support for institute growth 	<ul style="list-style-type: none"> □ Placement Opportunities □ Less publicity in area of excellence, value and quality □ Poor by private engineering institutes / universities



E&C Online SSIP Potential Projects Scrutiny

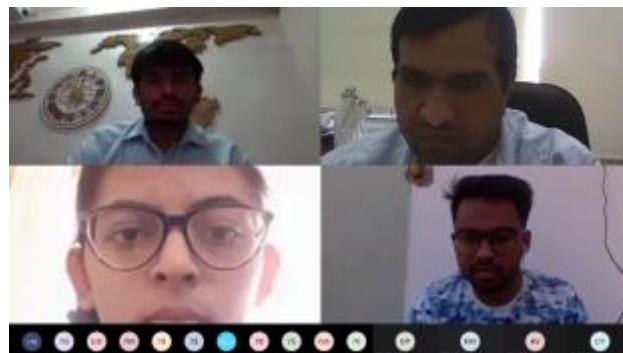


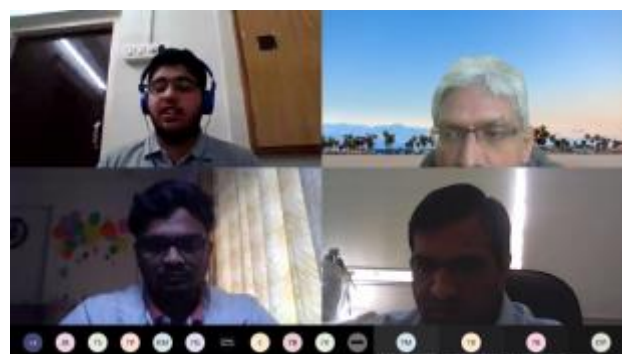
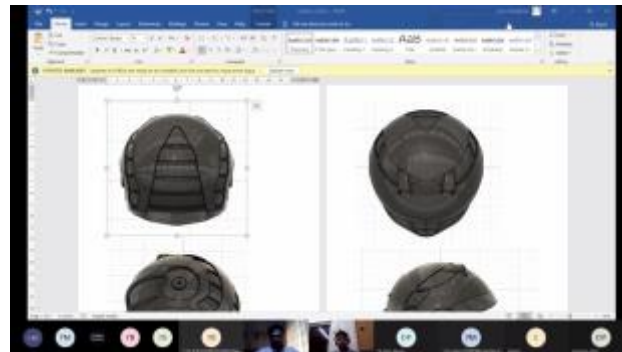
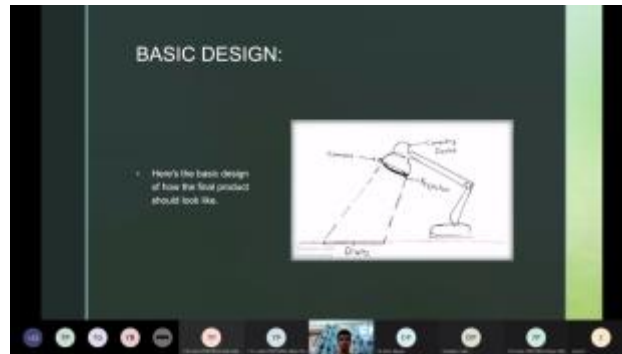
The final scrutiny of selected SSIP potential projects for SSIP grant allocation is scheduled on 13-01-2021, 11:00 A.M via Online Mode.

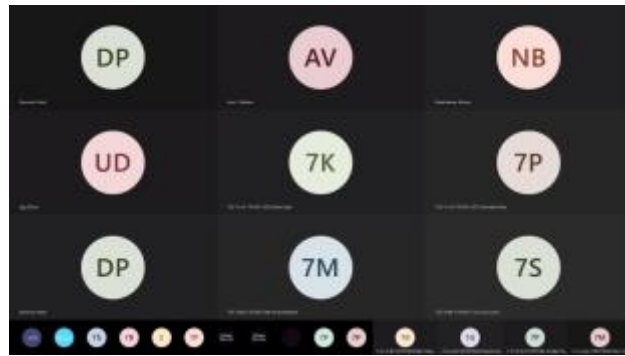
List of Potential Projects

**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
GOVERNMENT ENGINEERING COLLEGE, SECTOR-28, GANDHINAGAR
SSIP POTENTIAL PROJECTS**

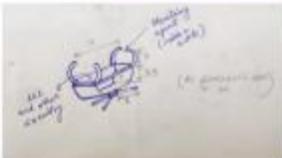
GRP NO.	ENROLLMENT NO.	STUDENT NAME	INTERNAL GUIDE	TITLE OF IDP/UDP	IDP/UDP
1	170130111078	PATEL VYOMA KETANKUMAR	PROF. DEVENDRA PATEL	DESIGN AND IMPLEMENTATION OF FPGA BASED SECURITY SYSTEM	UDP
	170130111075	PATEL SALONIBEN MAHENDRABHAI			
	170130111068	PATEL DHURVIL KANUBHAI			
2	170130111112	ARUN SUTHAR	PROF. UJJVAL DAVE	SMART BELT FOR SEWAGE WORKER	UDP
	170130111107	MEET SOLANKI			
3	170130111005	PARVA BARBHAYA	PROF. NILESH BANKER	WIRELESS STERILIZATION SYSTEM	UDP
	170130111026	DEEPAK GAUR			
	170130111043	M SAI ROHITH			
4	170130111062	PARMAR JAHNVI RAJESHBHAI	PROF. SANDEEP RAJPUT	SMART MEDICINE BOX	UDP
	170130111072	PATEL KEYUR SHAILESHBHAI			
	170130111079	PATEL YASH RAJENDRAKUMAR			
5	170130111032	KADRI MIRAN UL HAQ	PROF. DEVENDRA PATEL	DISPLAYING CONTENT ON A SURFACE USING SIXTH SENSE TECHNOLOGY	UDP
6	170130111054	PRIYAM PANCHAL	PROF. SANDEEP RAJPUT	AUTOMATIC FDM ADDITIVE MANUFACTURING FOR BATCH PRODUCTION	UDP
7	170130111027	GONDALIYA ARKIT	PROF. RUSHIKESH GAJJAR	WILDLIFE SHIELD	UDP
	170130111044	HARSHIL MAHETA			
8	170130111067	DARSHIL PATEL	PROF. AVANI VITHLANI	SUPERCAPACITOR ENERGY BUFFERING BASED SMART SOLAR HARVESTING SYSTEM	UDP
	170130111083	PRAJAPATI SANDIPKUMAR			
	170130111097	JAY SHAH			
9	170130111002	BabariyaDhruv	PROF JIGNESH BHAVSAR	Brain Controlled Wheelchair	UDP
	170130111011	BhayaniMihir			
	170130111020	Desai Vishal			
10	170130111048	Ravin Menghani	PROF. DEVENDRA PATEL	Safety Enhancing Smart Helmet	UDP
	170130111029	Bhaskar SaivinayJeebula			
	170130111046	Harshal Malviya			







Rough sketch



Price (3D Printing) :
Design : Rs. 1000
Manufacturing : Rs. 20 /gram
If device is 350g , price : Rs.7,000



Faculty Achievements:



Design of Modified Wideband Log Periodic Microstrip Antenna with Slot for Navigational Application



Shahid S. Modasiya and Jagdish M. Rathod

Abstract In the present era, development of wireless communication is taking place rapidly which requires an antenna with wide bandwidth and better radiation pattern. Log periodic antenna is one of the solutions to achieve wide bandwidth and better radiation pattern. In this paper, we design the wideband toothed log periodic microstrip antenna having the center feed which gives wide bandwidth, and again optimizing the same antenna by making a slot of 6×4 cm at end of arm which improves the bandwidth of 0.1 GHz, the slot structure reduces the cross-polarization and also maintains the bi-directional radiation pattern and co-polarization. Based on

Solid State Technology

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P – Shaped and Elliptical Slot loaded Wideband Microstrip Antenna for 5G Communication

Anil Poriya, Yagnik Moga, Nandan Patel, Shahid S Modasliya

Abstract

5G is the revolution in the wireless communication technology. Being wireless, an antenna is a significant part of it. The paper proposes a design of Microstrip Patch Antenna, which, due to its planar structure and compact design finds its application in wide range of systems and devices. The proposed antenna is transmission line fed and has a slotted elliptical patch, mounted on FR-4 resin material as a dielectric with relative permittivity $\epsilon_r = 4.4$ and a modified ground, that gives the Gain of 1.5 dB and Bandwidth of 1180 MHz in the simple Patch design. The Gain of 2.06 dB and bandwidth of 1260 MHz in the design with Rectangular Slots on the Patch and the Gain of 2 dB and a wide Bandwidth of 2420 MHz in the Patch design with a Large Elliptical Slot. Hence, it can be observed that the design is characterized by very compact shape and size, wideband operations, and optimized parameters like Bandwidth, Return loss and Gain over existing technology. The design validation is formulated by simulation on finite element method based software – ANSOFT Ansys HFSS (High Frequency Structure Simulator).

[PDF](#)

Issue

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Section

Articles



0.3

2019
CiteScore

AWARD CERTIFICATE

I2OR NATIONAL EMINENT YOUNG RESEARCHER AWARD 2020

presented to

Dr. Shahidmohammed Salaududdin Modasiya

from

Government Engineering College
Gandhinagar, Gujarat


Dr. S.N. Mehta
Chief Editor
I2OR India




Er. T. Singh
Managing Editor
I2OR India

I2OR/A/2020-4541



Elite

NPTEL Online Certification

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



This certificate is awarded to
BANKAR NILESHKUMAR MAHESHBHAI

for successfully completing the course

**NBA Accreditation and Teaching - Learning
in Engineering (NATE)**

with a consolidated score of **76 %**

Online Assignments	22/13/25	Proctored Exam	54/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: 548


Prof. G.L. Sivakumar Babu
Chairman, Centre for Continuing Education
IISc Bangalore

Jan-Apr 2020
(12 week course)


Prof. I. Suman
NPTEL Coordinator
IISc Bangalore



Indian Institute of Science Bangalore



Roll No: NPTEL200211521040046

To validate and check scores: <https://npel.ac.in/en>



NPTEL-AICTE Faculty Development Programme

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



This certificate is awarded to
DR.SHAHIDMOHAMMED S.MODASIYA

for successfully completing the course
Antennas

with a consolidated score of **75 %**

Prof. Andrew Thangani
NPTEL Coordinator
IIT Madras

(Jan-Apr 2020)

Prof. Dileep N. Mathkonda
Advisor (Research, Institute & Faculty Development)
All India Council for Technical Education

Roll No: NPTEL200E20S11040175

To validate and check scores: <http://npTEL.ac/ntvnc>

This candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams.
This certificate is transferable applicable for promotions under CDS as per AICTE notifications dated 10th Aug 2019, similar to other certificate / orientation courses.
E.No. AICTE / 089 / FDP through MOOCs / 2017-19



Elite NPTEL Online Certification

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



This certificate is awarded to
AVANI ARVIND VITHALANI

for successfully completing the course

Introduction to Research

with a consolidated score of **84 %**

Online Assignments	20.46/25	Proctored Exam	63.87/75
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Prof. Devendra Jithal
Chairman
Centre for Continuing Education, IITM

Total number of candidates certified in this course: 1910

Sep-Nov 2020
(8 week course)

Prof. Andrew Thangani
NPTEL Coordinator
IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL20GE22S1040074

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



Elite NPTEL Online Certification

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

This certificate is awarded to
PATEL DEVENDRAKUMAR HIRABHAI

for successfully completing the course

**NBA Accreditation and Teaching - Learning
in Engineering (NATE)**

with a consolidated score of **65 %**

Online Assignments	22.03/25	Proctored Exam	42.75/75
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Prof. G. L. Sankaranarayanan
Chairman, Centre for Continuing Education
IISc Bangalore

Total number of candidates certified in this course: 548

Jan-Apr 2020
(12 week course)

Prof. L. Srinivasan
NPTEL Coordinator
IISc Bangalore



Indian Institute of Science Bangalore



Roll No: NPTEL20GE11S21040004

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



Elite

NPTEL Online Certification

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



This certificate is awarded to
BHAVSAR JIGNESH KANUBHAI
for successfully completing the course

Introduction to Research

with a consolidated score of **68** %

Online Assignments	20.58/25	Proctored Exam	47/75
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Bhanu Prasad Jaiwal

Prof. Bhanu Prasad Jaiwal
Chairman
Centre for Continuing Education, IITM

Total number of candidates certified in this course: 1910

Sep-Nov 2020
(8 week course)

Prof. Anand Thangaraj

Prof. Anand Thangaraj
NPTEL Coordinator
IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL20GE22581040295

To validate and check scores: <https://npel.ac.in/ncv>



Elite

NPTEL Online Certification

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



This certificate is awarded to
SUHASBHAI HARIBHAI PATEL
for successfully completing the course

Deep Learning - Part 1

with a consolidated score of **65** %

Online Assignments	24.38/25	Proctored Exam	40.5/75
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Bhanu Prasad Jaiwal

Prof. Bhanu Prasad Jaiwal
Chairman
Centre for Continuing Education, IITM

Total number of candidates certified in this course: 99

Jan-Apr 2020
(12 week course)

Prof. Anand Thangaraj

Prof. Anand Thangaraj
NPTEL Coordinator
IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL20CS001521040093

To validate and check scores: <https://npel.ac.in/ncv>



NPTEL Online Certification

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



This certificate is awarded to
SUHASBHAI HARIBHAI PATEL
for successfully completing the course

Machine Learning, ML

with a consolidated score of **56** %

Online Assignments	23.15/25	Proctored Exam	33/75
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Bhanu Prasad Jaiwal

Prof. Bhanu Prasad Jaiwal
Chairman
Centre for Continuing Education, IITM

Total number of candidates certified in this course: 95

Feb-Apr 2020
(8 week course)

Prof. Anand Thangaraj

Prof. Anand Thangaraj
NPTEL Coordinator
IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL20CS049511040140

To validate and check scores: <https://npel.ac.in/ncv>



E&C Faculty Training:



DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
GOVERNMENT ENGINEERING COLLEGE, SECTOR-28, GANDHINAGAR
FACULTY TRAINING DETAILS

Name of Faculty	Course / Training Undergone	Duration	Platform
Prof. Avani A. Vithlani	Fundamentals of outcome based curriculum in engineering education	14-09-2020 to 09-11-2020	NPTEL Online Course
Prof. Jignesh K. Bhavsar	Fundamentals of outcome based curriculum in engineering education	14-09-2020 to 09-11-2020	NPTEL Online Course
Prof. Sandip J. Dawda	Fundamentals of outcome based curriculum in engineering education	14-09-2020 to 09-11-2020	NPTEL Online Course
Prof. Shahid S. Modasiya	Fundamentals of outcome based curriculum in engineering education	14-09-2020 to 09-11-2020	NPTEL Online Course
Prof. Tejas B. Sheth	Fundamentals of outcome based curriculum in engineering education	14-09-2020 to 09-11-2020	NPTEL Online Course
Prof. Kishor G. Maradia	Intellectual Property Rights	06-07-2020 to 14-09-2020	iHub,Ahmedabad
Prof. Tejas B. Sheth	Intellectual Property Rights	06-07-2020 to 14-09-2020	iHub,Ahmedabad
Prof. Jignesh K. Bhavsar	Intellectual Property Rights	06-07-2020 to 14-09-2020	iHub,Ahmedabad
Prof. Avani A. Vithlani	Intellectual Property Rights	06-07-2020 to 14-09-2020	iHub,Ahmedabad
Prof. Abhinav J. Dave	Intellectual Property Rights	06-07-2020 to 14-09-2020	iHub,Ahmedabad
Prof. Suhas H. Patel	Intellectual Property Rights	06-07-2020 to 14-09-2020	iHub,Ahmedabad
Prof. Devendra H. Patel	Intellectual Property Rights	06-07-2020 to 14-09-2020	iHub,Ahmedabad
Prof. Nilesh M. Bankar	Intellectual Property Rights	06-07-2020 to 14-09-2020	iHub,Ahmedabad
Prof. Shahid S. Modasiya	Intellectual Property Rights	06-07-2020 to 14-09-2020	iHub,Ahmedabad
Prof. Sandip J. Dawda	Intellectual Property Rights	06-07-2020 to 14-09-2020	iHub,Ahmedabad
Prof. Nisha K. Prajapati	Intellectual Property Rights	06-07-2020 to 14-09-2020	iHub,Ahmedabad
Prof. Sandeep J. Rajput	Intellectual Property Rights	06-07-2020 to 14-09-2020	iHub,Ahmedabad
Prof. Ujjwal J. Dave	Intellectual Property Rights	06-07-2020 to 14-09-2020	iHub,Ahmedabad
Prof. Kishor G. Maradia	E-Content Development	28-07-2020 to 18-08-2020	KCG, Ahmedabad
Prof. Tejas B. Sheth	E-Content Development	28-07-2020 to 18-08-2020	KCG, Ahmedabad
Prof. Jignesh K. Bhavsar	E-Content Development	28-07-2020 to 18-08-2020	KCG, Ahmedabad
Prof. Avani A. Vithlani	E-Content Development	28-07-2020 to 18-08-2020	KCG, Ahmedabad
Prof. Abhinav J. Dave	E-Content Development	28-07-2020 to 18-08-2020	KCG, Ahmedabad
Prof. Suhas H. Patel	E-Content Development	28-07-2020 to 18-08-2020	KCG, Ahmedabad
Prof. Devendra H. Patel	E-Content Development	28-07-2020 to 18-08-2020	KCG, Ahmedabad
Prof. Nilesh M. Bankar	E-Content Development	28-07-2020 to 18-08-2020	KCG, Ahmedabad
Prof. Shahid S. Modasiya	E-Content Development	28-07-2020 to 18-08-2020	KCG, Ahmedabad
Prof. Sandip J. Dawda	E-Content Development	28-07-2020 to 18-08-2020	KCG, Ahmedabad
Prof. Nisha K. Prajapati	E-Content Development	28-07-2020 to 18-08-2020	KCG, Ahmedabad
Prof. Sandeep J. Rajput	E-Content Development	28-07-2020 to 18-08-2020	KCG, Ahmedabad
Prof. Ujjwal J. Dave	E-Content Development	28-07-2020 to 18-08-2020	KCG, Ahmedabad

Student's Activities: Self-learning / Content beyond Syllabus ³ (CBS)

³<https://docs.google.com/spreadsheets/d/1qsXkuev2oevaoUYA8m6RIRv0EQmOJlexR1Gz6gkxXbA/edit#gid=640725072>

ELECTRONICS & COMMUNICATION ENGG. DEPARTMENT

Sr. No.	enrollment no.	name	se m	activities	platform	
1	180130111087	Sadhvani Riya Shaileshbhai	5		Udemy	html, ms-excel
2	180130111087	Sadhvani Riya Shaileshbhai	5		internshala	data science
3	180130111087	Sadhvani Riya Shaileshbhai	5		internshala	
4	180130111090	Shah Meet Tushar bhai	5		Udemy	html, ms-excel
5	180130111090	Shah Meet Tushar bhai	5		techcity software consulting private limited	
6	1901331111004	Bhatt Nidhi Sudhirbhai	5	Online Course	NPTEL	Embedded System Des
7	1901331111004	Bhatt Nidhi Sudhirbhai	5	Yoga International Day Celebration	Panjab University ,Chandigarh	Philosophy
8	1901331111004	Bhatt Nidhi Sudhirbhai	5	Webinar	St Joseph Institute of Technology, Chennai	Artificially Intelligent C
9	1901331111004	Bhatt Nidhi Sudhirbhai	5	Webinar	Panjab University ,Chandigarh	"VEDA FOR WORLPI
10	1901331111004	Bhatt Nidhi Sudhirbhai	5	Quiz	Parul University, Gujarat	Applications of Artifici
11	1901331111004	Bhatt Nidhi Sudhirbhai	5	Quiz	Parul University, Gujarat	International-Level "S
12	1901331111004	Bhatt Nidhi Sudhirbhai	5	Webinar	McGraw -Hill Education	Robotics- Connecting
13	1901331111004	Bhatt Nidhi Sudhirbhai	5	Quiz	Sharda University, Noida	YOGA Awareness
14	1901331111004	Bhatt Nidhi Sudhirbhai	5	Online Training	Mapping Skills Software Institute ,Noida	Python, Data Science
15	1901331111004	Bhatt Nidhi Sudhirbhai	5	Online Lecture	Panjab University ,Chandigarh	"ELENCHUS" Scienti
16	1901331111004	Bhatt Nidhi Sudhirbhai	5	Webinar	ASM IBMR, Pune	Outcome Based Educ
17	1901331111004	Bhatt Nidhi Sudhirbhai	5	Webinar	INDUS University ,Gujarat	"CMOS-MERIMISTE
18	1901331111004	Bhatt Nidhi Sudhirbhai	5	Proficiency Test	Aurora's Technological & Research Institute, Hyderabad	English language Pro
19	1901331111004	Bhatt Nidhi Sudhirbhai	5	Webinar	Panjab University ,Chandigarh	* Contribution to "NEC
20	1801301111023	jain Prachi ajaykumar	5	online course	great learning	python
21	1801301111023	jain Prachi ajaykumar	5	online course	great learning	ms-excel
22	1801301111089	Pramis Saxena	5	online course	coursera	programming with pyt
23	1801301111089	Pramis Saxena	5	online course	coursera	python data structures
24	1801301111089	Pramis Saxena	5	online course	coursera	using python for web
25	1801301111089	Pramis Saxena	5	online course	coursera	Retrieving, processing
26	1801301111089	Pramis Saxena	5	online course	Hackerrank	python (basic)
27	1801301111089	Pramis Saxena	5	online course	FreeCodeCamp	web designing
28	1901301111036	Chauhan Pankti Bhagyeshkumar	3	Online Course	Google Unlck	Digital Marketing
29	1901301111036	Chauhan Pankti Bhagyeshkumar	3	online Course	COGNITIVE CLASS. ai	Python 101 for Data S
30	1901301111036	Chauhan Pankti Bhagyeshkumar	3	webinar	GEC gandhinagar	Concept and Impleme
31	1901301111036	Chauhan Pankti Bhagyeshkumar	3	webinar	GEC gandhinagar	Machine learning with
32	1901301111036	Chauhan Pankti Bhagyeshkumar	3	webinar	GEC gandhinagar	career options and gn
33	1901301111036	Chauhan Pankti Bhagyeshkumar	3	webinar	GEC, Gandhinagar	Regression and Mode
34	1901301111036	Chauhan Pankti Bhagyeshkumar	3	Quiz	ITEE Cyber welfare society	Cyber law awareness
35	1901301111036	Chauhan Pankti Bhagyeshkumar	3	Webinar	GTU	Intellectual Property R
36	1901301111037	Rushabh Pankaj Chauhan	3	Online course	Udemy	Expert Coder: Learn
37	1801301111107	Tank Meet Govardhanbhai	5	Internship	The Spark Foundation	
38	1801301111107	Tank Meet Govardhanbhai	5	Online Course	Udemy	Python for data scienc
39	1801301111107	Tank Meet Govardhanbhai	5	Online Course	COGNITIVE CLASS. ai	Python 101 for Data S
40	1801301111107	Tank Meet Govardhanbhai	5	Online Course	Great Learning	Python for machine le
41	1801301111107	Tank Meet Govardhanbhai	5	Webinar	GEC, Gandhinagar	Regression and Mode
42	1901301111031	chanpura shruti ashokbhai	3	online course	Google unlock	digital marketing
43	1901301111031	chanpura shruti ashokbhai	3	webinar	GEC Gandhinagar	how to crack technica
44	1901301111031	chanpura shruti ashokbhai	3	webinar	GEC Gandhinagar	machine learning with
45	1901301111031	chanpura shruti ashokbhai	3	webinar	GEC Gandhinagar	career options and gn
46	1901301111031	chanpura shruti ashokbhai	3	webinar	GEC Gandhinagar	regression and model
47	1901301111031	chanpura shruti ashokbhai	3	yoga workshop	GTU	philosophy of yoga
48	1901301111031	chanpura shruti ashokbhai	3	Quiz	ITEE cyber welfare society	cyber law awarness q
49	1901301111031	chanpura shruti ashokbhai	3	Quiz	NSS unit gecgn	rashtriya ekta divas, c
50	1701301111112	Suthar Arun Chhaganlal	7	campus ambassador for online tech fest	IIT, GHANDHINAGAR	increase students for
51	1701301111112	Suthar Arun Chhaganlal	7	design own PCB	Autodesk Engie	
52	1701301111112	Suthar Arun Chhaganlal	7	internship in home automation	career electronics	doing internship on wi
53	1701301111112	Suthar Arun Chhaganlal	7	campus ambassador	Indian Robotics community	increase students for

Student's ⁴Co-Curricular & Extra-Curricular Achievements: ⁵



⁴<https://docs.google.com/spreadsheets/d/1qsXkuev2oenvaoUYA8m6RIRv0EQmOJlexR1Gz6gkxXbA/edit#gid=640725072>

⁵<https://docs.google.com/spreadsheets/d/1KCVGKID2nHNob9mWhz5Eaik4jzEWffLpRINT1D-YF3E/edit#gid=0>

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/sec/>

Roll No: NPTEL20CS1551583298
To
BHATT NIDHI SUDHIRBHAI
SHIKTA, 28 BLOCK, INDUSTRIAL CHANDRA
SARASWATI TEMPLE
GANDHINAGAR
BUMBAH, INDIA
PIN-401012



No. of credits recommended by NPTEL2

(An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved).



NPTEL Online Certification

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



This certificate is awarded to
BHATT NIDHI SUDHIRBHAI
for passing the course
Embedded System Design with ARM
with Score* **88** %

Covid-19
Impacted
January 2020
Semester

A. Goswami

Jan-Mar 2020
(8 week course)

Prof. Aditya Goswami
Dean, Continuing Education & NPTEL, Coordinator
of Manager



Indian Institute of Technology Kharagpur



*Continuous online assessment score

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



YOGA AWARENESS QUIZ
SCHOOL OF BUSINESS STUDIES



Certificate

graciously awarded to

NIDHI SUDHIRBHAI BHATT

for participating in 'Yoga Awareness Quiz' on
8th International Yoga Day (21 June, 2020)


Dr. Madhu Sharma
Coordinator


Dr. Deepankar Chakrabarti
Dean, SBS









Priyanshu Rani, et Al.
A SURFACE EDGE CUTOOUT PATCH ANTENNA

ET&A, Special Issue No 1 (60)
Volume 16, January 2021

A SURFACE EDGE CUTOOUT MICROSTRIP PATCH ANTENNA FOR 5G APPLICATIONS

Priyanshu Rani Rajkumar, Ajani Chandani, Jahnavi Deshmukhi, Shahid Modasiya

Government Engineering College, Gandhinagar, Gujarat, India
ranipriyanshu01@gmail.com

Abstract

With internet reinforcing communication, to the extent that it has become a preferred medium of communication. With these huge demand for high speed and effective networks so in order to meet these requirements 5G communication networks is essential. The primary technologies include:





Student's ⁶Extra-Ordinary Achievements:⁷



E&C Students participated being members of the GTU Team-A for DD-ROBOCON -2020 and became 1st runner up in ROBOCON-2020 held on October 27, 2020 at IIT-Delhi and the same team also won "TOYATO AWARD' in ABU Robocon Festival.

⁶<https://docs.google.com/spreadsheets/d/1qsXkuev2oenvaoUYA8m6RIRv0EQmOJlexR1Gz6gkxXbA/edit#gid=640725072>

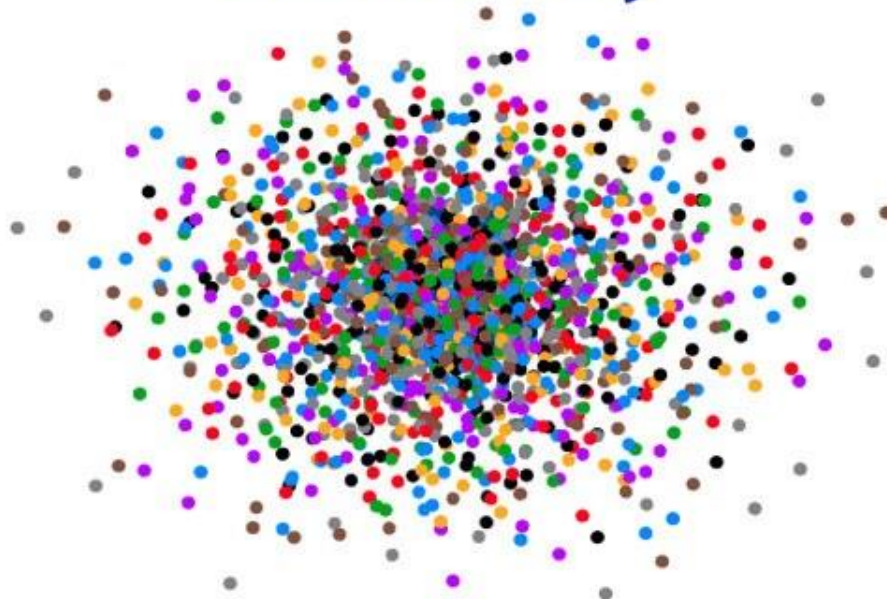
⁷<https://docs.google.com/spreadsheets/d/1KCVGKID2nHNoB9mWhz5Eaik4jzEWfFlpRINT1D-YF3E/edit#gid=0>





Creative Corner of E&C Dept.

Creativity



આ વખતે નૂતન વર્ષ ખરેખર કંઈક નવીન છે..

ફોનમાં ફોટા અને વિડીઓ થકી વિશ થઈ રહી છે,
સુખ-સમૃદ્ધિ પહેલાં હવે સ્વાસ્થ્ય ની જીત થઈ રહી છે..

આ વખતે નૂતન વર્ષ ખરેખર કંઈક નવીન છે..

સ્નેહીજનો જોજનો દૂરથી સ્નેહ મિલન કરી રહ્યા છે,
સૌ કોઈ આપ્તજનો ની આપત્તિ દૂર કરવા મથી રહ્યા છે..

આ વખતે નૂતન વર્ષ ખરેખર કંઈક નવીન છે..

અહીં હવે માસ્કને પોષાકનું અભિન્ન અંગ ગણી રહ્યા છે,
અને સેનીટાઈઝર ને જ હવે સેન્ટ ગણી ચોપડી રહ્યા છે..

આ વખતે નૂતન વર્ષ ખરેખર કંઈક નવીન છે..

નકામાં ખર્ચાઓ અમે હવે ક્યારનાય નકારી કાઢ્યા છે,
જાણી જોઈને અને સમજીને ઘણો બધે જતું કરી રહ્યાં છે..

આ વખતે નૂતન વર્ષ ખરેખર કંઈક નવીન છે..

રખે ને આજે ફટાકડાનાં ધુમાડા ગળાઈ ને લઈ રહ્યા છે,
જાણે વિશ્વનાં આક્રોશને દમ મારી ને ઉડાવી રહ્યા છે..

આ વખતે નૂતન વર્ષ ખરેખર કંઈક નવીન છે..

બસ એ જ જુસ્સા સાથે નૂતન અને નવીન વર્ષનાં
અભિનંદન,
પ્રો. નિલેશ બેંકર અને પરિવાર તરફથી વિક્રમ સંવત
૨૦૭૭ ની અનેકોનેક શુભેચ્છાઓ..
તા. ૧૬/૧૧/૨૦૨૦

ગાંધી...એક પ્રશ્નાર્થ..??..

જો હું ચલણમાં છું,
તો કામ-કાજનાં વલણમાં કેમ નથી??

જો હું ચરખામાં છું,
તો સરખે-સરખામાં કેમ નથી??

જો હું વિચારો માં છું,
તો લોક-વ્યહવારમાં કેમ નથી??

જો હું સત્યાગ્રહ માં છું,
તો સત્યનાં આગ્રહમાં કેમ નથી??

જો હું અહિંસામાં છું,
તો આચાર સંહિતા માં કેમ નથી??

અને અંતે..

જો હું આઝાદીમાં છું,
તો આઝાદ હિન્દુસ્તાનમાં કેમ નથી??

**જો મળે મને આ પ્રશ્નાર્થનો ખરો અર્થ,
તો જ થશે મારો આ જન્મ સાર્થક..**

ગાંધી જન્મજયંતીની શુભેચ્છાઓ સાથે,
પ્રો. નિલેશ એમ. બેંકર
તા. ૦૨/૧૦/૨૦૨૦

ચાલ ને, મોજથી મૃત્યુની મુસાફરી કરીએ..

ચાલ ને, મોજથી મૃત્યુની મુસાફરી કરીએ..

જન્મ લઈને તે જે જન્મારો મેળવ્યો,
બસ એને જ સાર્થક કરવા આજે મચી પડીએ,

ચાલ ને, મોજથી મૃત્યુની મુસાફરી કરીએ..

શ્વાસ ઉચ્છવાસની આ મસ્ત ગતિ ને,
બસ અલમસ્ત બનીને આજે માણી લઈએ,

ચાલ ને, મોજથી મૃત્યુની મુસાફરી કરીએ..

પ્રકૃતિની આ અનેરી પરિભાષા ને,
બસ પરિપક્વ થઈને આજે જાણી લઈએ,

ચાલ ને, મોજથી મૃત્યુની મુસાફરી કરીએ..

જીવનનાં આ રૂપેરી સ્પંદનો ને,
બસ છેક હૈયાનાં ઊંડાણમાં આજે દાબી દઈએ,

ચાલ ને, મોજથી મૃત્યુની મુસાફરી કરીએ..

અને અંતે,

જીવતરનાં આ અમૂલ્ય વારસાને,
બસ એક મૃત્યુ કાળે આજે સાચવી લઈએ,

ચાલ ને, મોજથી મૃત્યુની મુસાફરી કરીએ..

બસ એ જ મોજીલો મુસાફર,

પ્રો. નિલેશ એમ. બેંકર

તા. ૨૩/૦૬/૨૦૨૦

ક્યાંક છે અંત તો ક્યાંક છે શરૂઆત,
બસ જીવન તારી મુસાફરીની આ જ તો છે ખાસ વાત..

ક્યાંક લખે છે કલમ તો ક્યાંક જીભ ચલાવે છે બાણ,
બસ ભાષા તારી ભાવનાઓની આ જ તો છે નોખી રજૂઆત..

ક્યાંક પેટ કરાવે છે વેઠ તો ક્યાંક ભેટ-સોગાદો છે ખાસ,
બસ જરૂરિયાત તારી આદતોની આ જ તો છે અસલ જાત..

ક્યાંક જીતનો છે જંગ તો ક્યાંક હારની છે લાંબી હારમાળ,
બસ અસ્તિત્વ તારા સમરાંગણનો આ જ તો છે ખરો જંઝાવાત..

અને અંતે..

ક્યાંક છે સૂર્યોદય તો ક્યાંક છે સૂર્યાસ્ત,
બસ ધરા તારી ધરી નો આ જ તો છે અસીમ ચમત્કાર..

બસ એ જ કુદરતની જીવનરૂપી નવીન પરીકલ્પનાઓને આવનાર
વર્ષ:૨૦૨૧ માં ફરી પાછી સમજવાને,

પ્રો. નિલેશ એમ. બૅકર
તા.૨૮/૧૨/૨૦૨૦

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