

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.

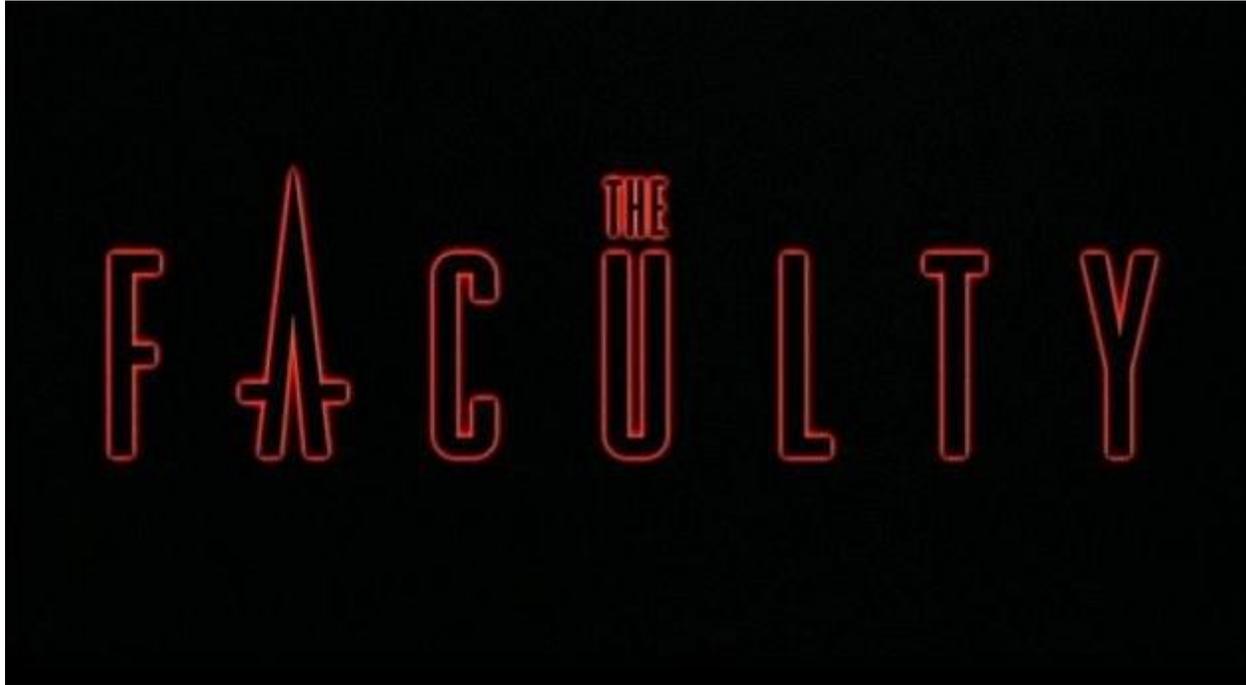
Program Specific Outcomes (PSOs) of E&C Department:

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 MARADA

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 VITHALANI

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 : 20 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. SANJAY 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. DEVINDRAKUMAR PATEL

DESIGNATION : ASSISTANT PROFESSOR

QUALIFICATION : B.E.(EC), M.E.(EC-CSE)

EXPERIENCE : 10 YEARS

AREA OF INTEREST : EMBEDDED SYSTEM, VLSI, IMAGE PROCESSING



MR. NEELKUMAR BANJAR

DESIGNATION : ASSISTANT PROFESSOR

QUALIFICATION : M.E. (COMMUNICATION SYSTEM ENGINEERING)

EXPERIENCE : 18 YEARS

AREA OF INTEREST : SIGNAL PROCESSING, WIRELESS COMMUNICATION



MR. SHAIKH MOHAMMED NODAGHA

DESIGNATION : ASSISTANT PROFESSOR

QUALIFICATION : PH.D

EXPERIENCE : 10 YEARS

AREA OF INTEREST : ANALOG ELECTRONICS, RF & MICROWAVE



MR. SANDEEP DANDA

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. NEETA 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



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...





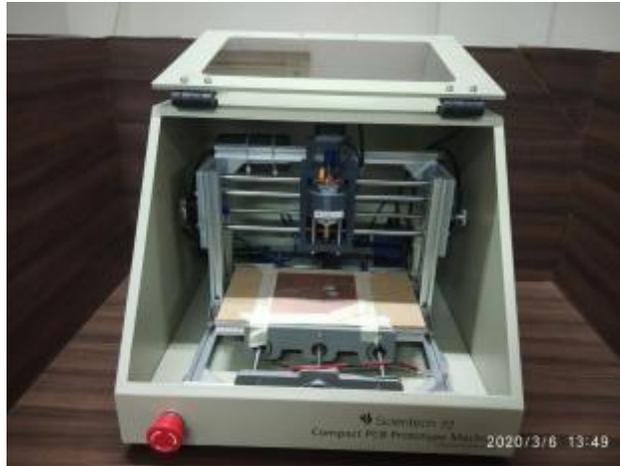




1 - Design Components



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"

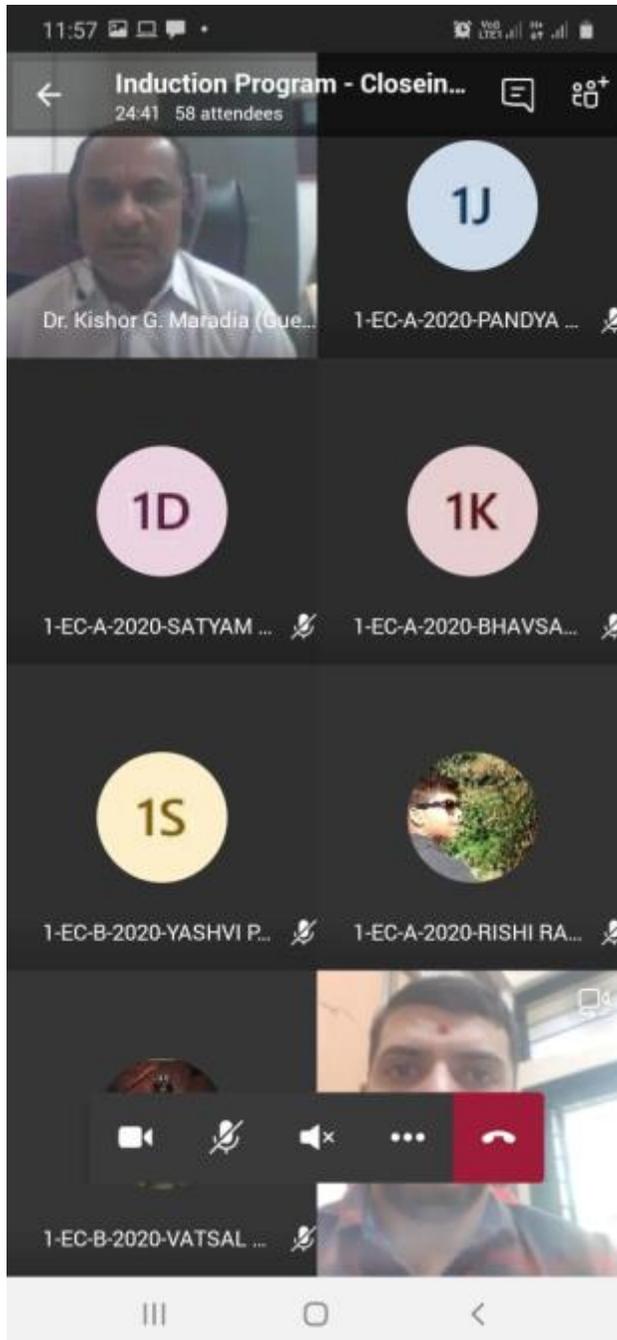
Date:15/09/2020 (Engineers Day) Time: 1:00pm to 3:00pm

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>



1:31

59%

Webinar on "Ut..."



Chintan Kharwa

- You
- Devendra ...
- 106 others

Call, Mute, Unmute, More options

1:14

66%



Webinar on "Ut..."



Narottam Sahoo



You



109 others



1:09

68%



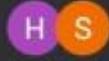
Webinar on "Ut..."



AKHIL BIJU joined



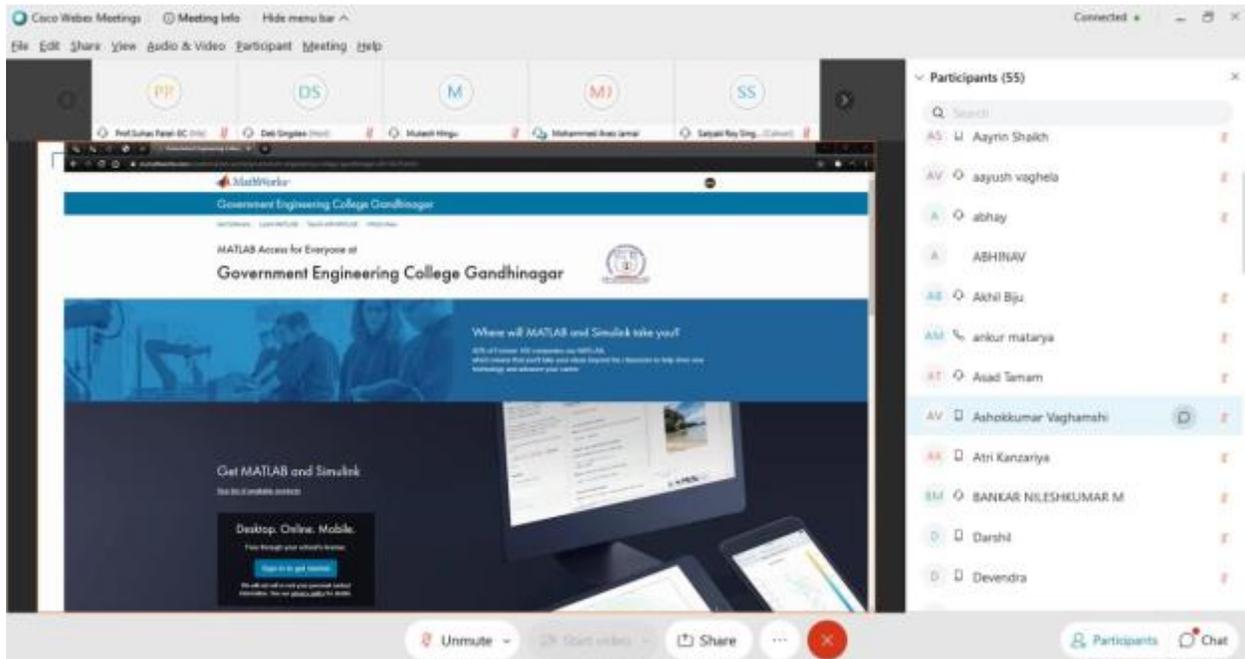
You



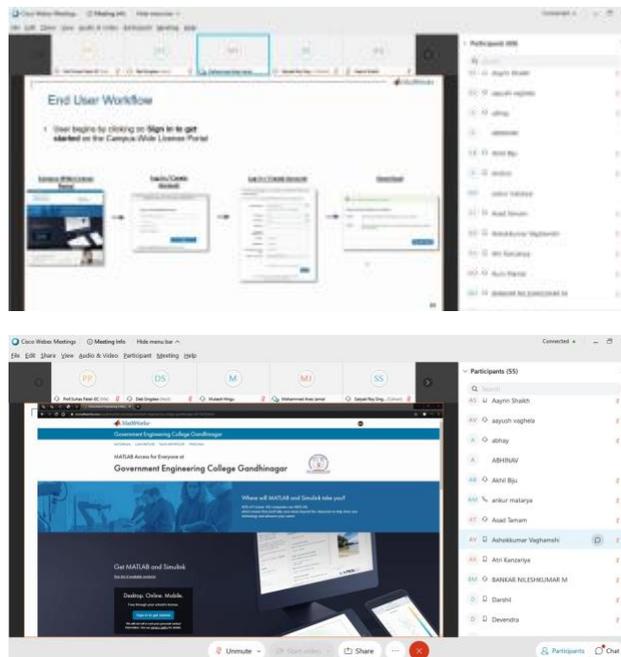
79 others

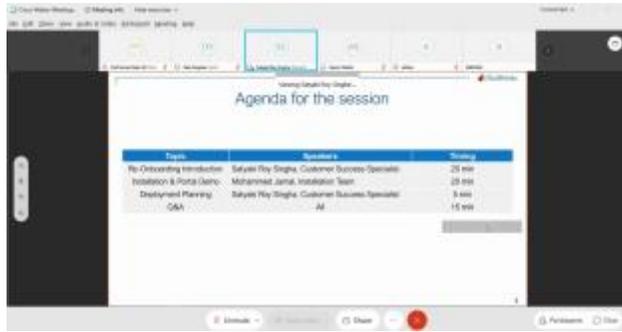
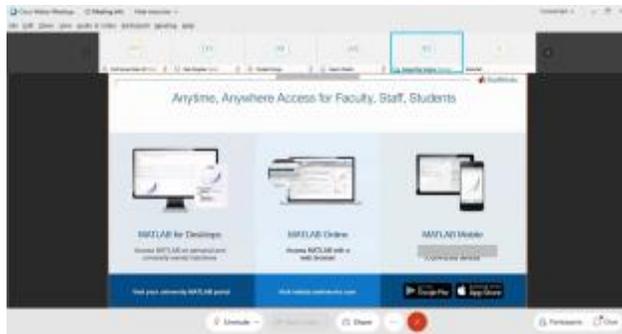


Webinar on "Introduction to MATLAB and Simulink"



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.



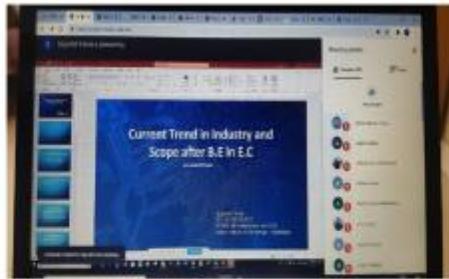
E&C dept. have organized a series of expert lectures during this "New Normal" situation by an eminent experts from Industry as well as academia in an online mode towards the larger benefits of students.

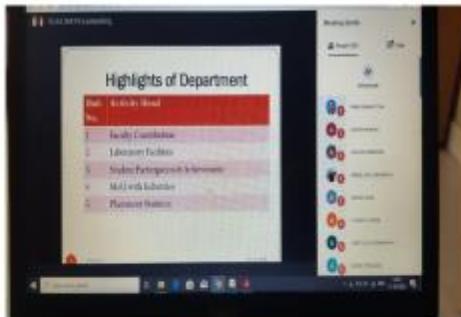
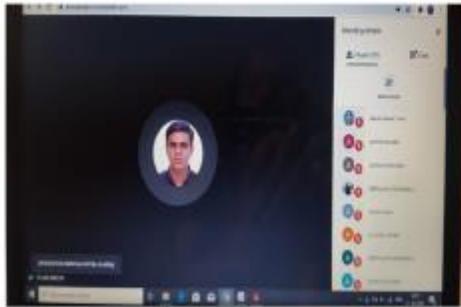
Sr. No.	Topic of the talk	Expert Details	Date & Mode of Conduction
1	My journey in VLSI Industry & career Opportunities in VLSI Industry	Mr. Mohammad Zuber Pirumiya Malek, DFT technical Manager, Intel India Pvt. Ltd., Bangalore	Dt. 11/10/2020 via Online Platform: Google Meet as part of Alumni Meet-2020.
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.

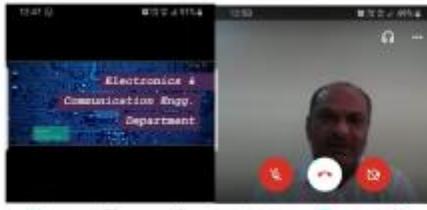
E&C Online Alumni Meet- 2020



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.

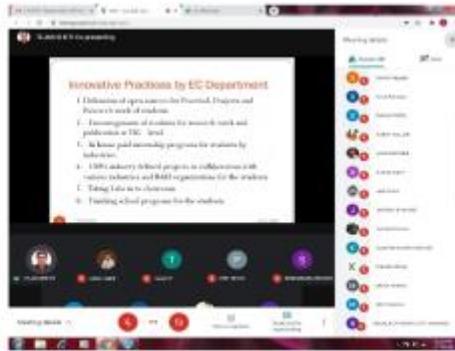




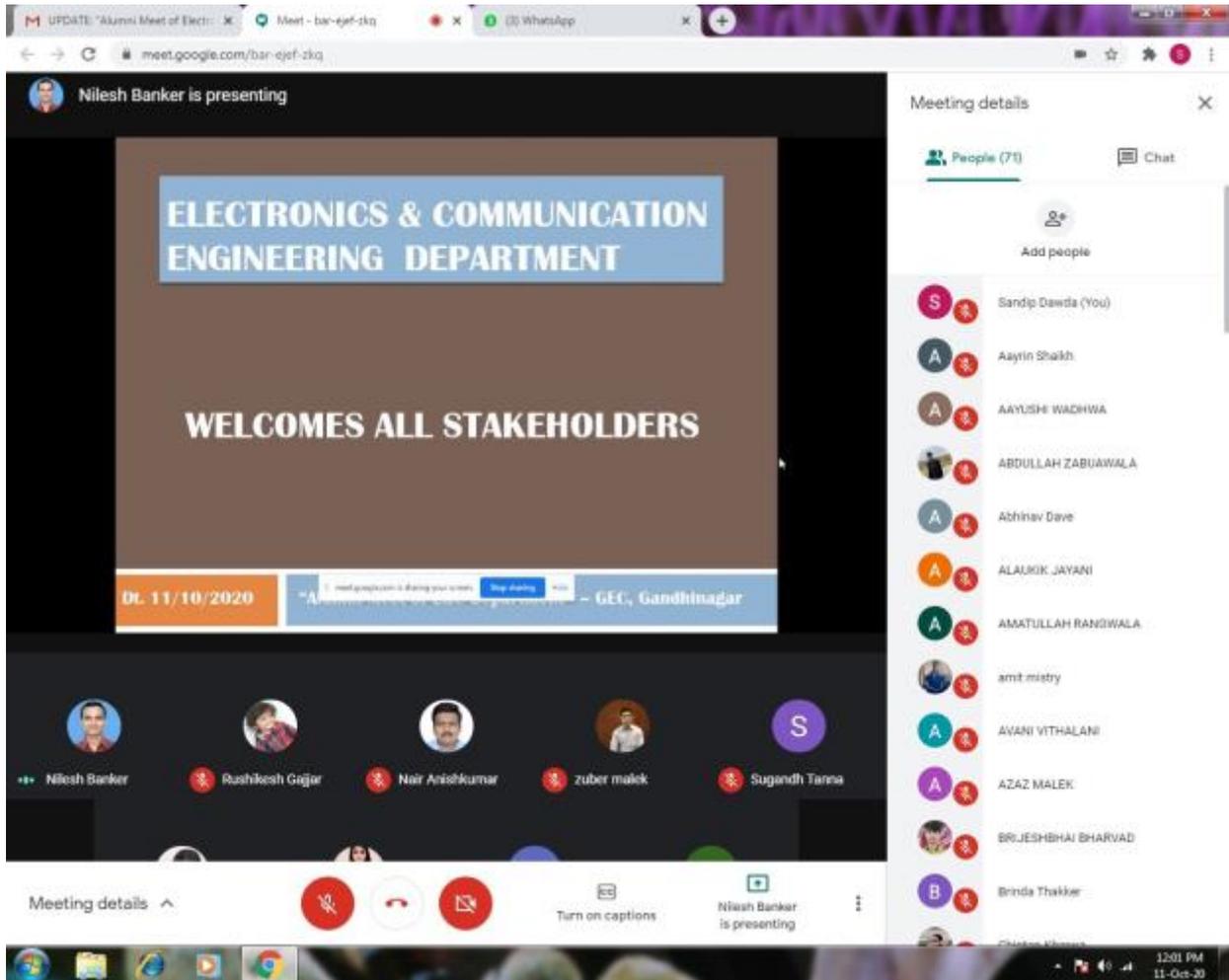






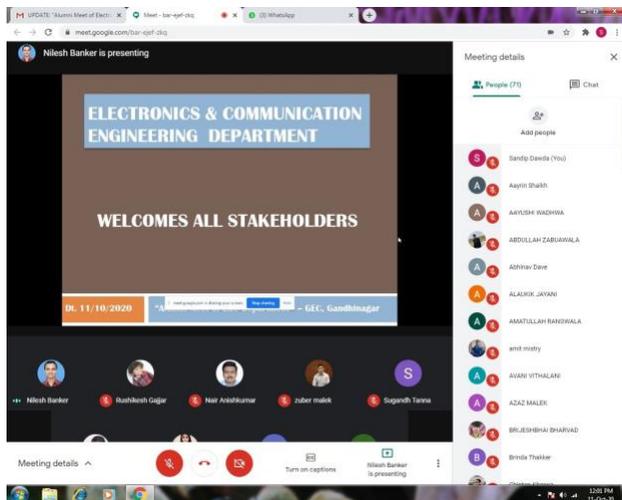
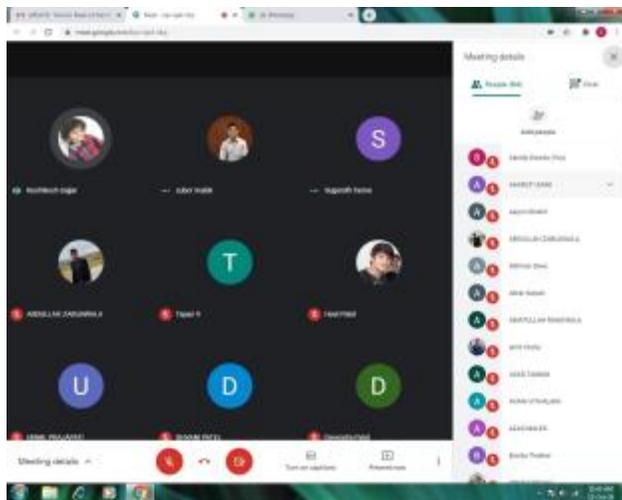


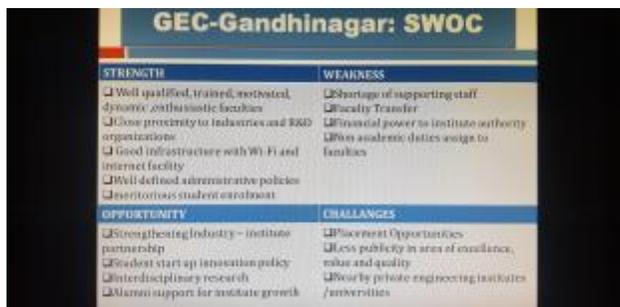
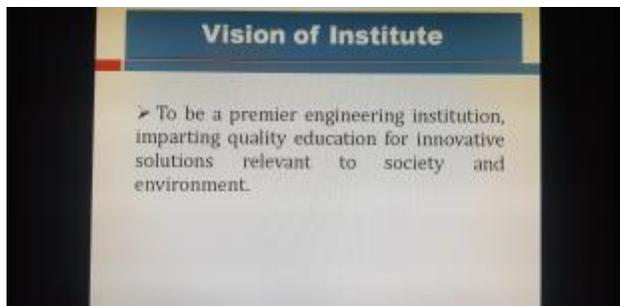
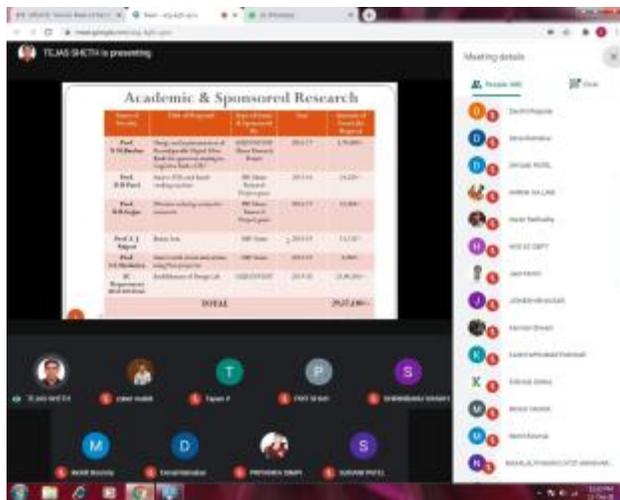
E&C Stakeholder Online Meet-2020

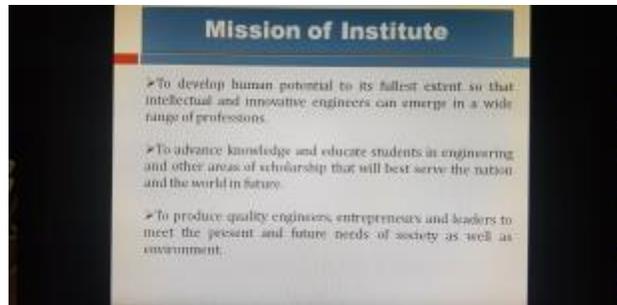


The Electronics & Communication Engineering Department has organized Stakeholder's Online Google Meet on 11th October 2020-Sunday. In total, 134 nos. of stakeholders which includes alumni, current students, industry persons, parents and faculty members who had linkage with E&C dept. -GEC Gandhinagar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

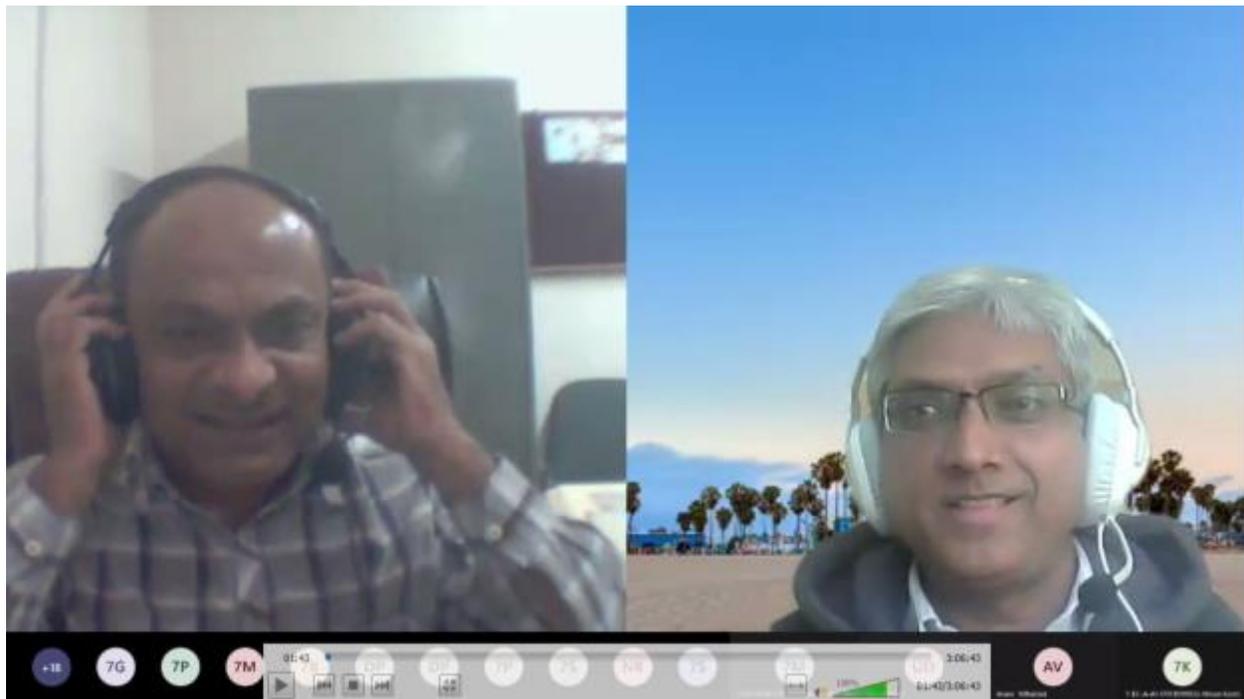
The consent/feedback/suggestions about the Institute SWOC and Vision & Mission statements as well as the Dept. SWOC, Vision & Mission statements, Program Educational Objectives (PEO's) & Program Outcomes (PO's) of E&C Dept. were taken through the dedicated Google Form shared with the stakeholders.







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

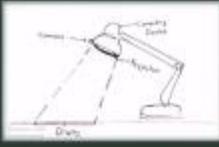
**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
GOVERNMENT ENGINEERING COLLEGE, SECTOR-28, GANDHINAGAR
SSIP POTENTIAL PROJECTS**

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 DHRUVIL 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			

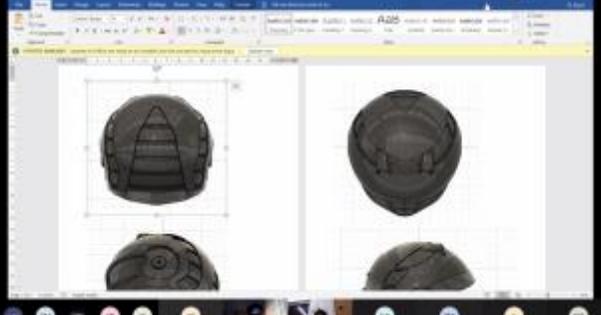


BASIC DESIGN:

- Here's the basic design of how the final product should look like.



A hand-drawn sketch of a mechanical assembly. It features a central vertical shaft with a horizontal arm extending from it. The arm has a circular dial-like component at its end. Labels 'Support' and 'Dial' are present, with 'Dial' appearing twice. The drawing is on a white background with some dashed lines indicating hidden parts.



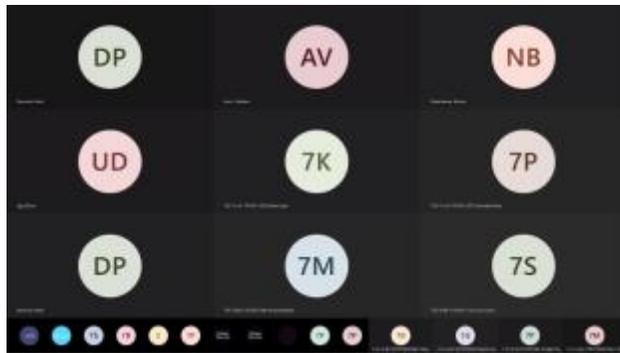
A screenshot of a CAD software interface. The main workspace shows two views of a spherical object with a grid. The top view is a perspective view, and the bottom view is a top-down view. The software interface includes a menu bar at the top and a toolbar on the left.



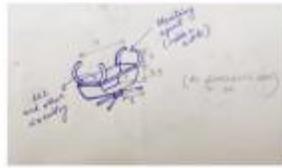
A screenshot of a Zoom meeting grid. The grid shows several participant icons. Four icons are labeled with letters: '1D', '1O', '1K', and '1S'. The '1S' icon is highlighted in yellow. A 'Participants' list is visible on the right side of the screen.



A screenshot of a Zoom meeting showing four individual video feeds of participants. The top-left feed shows a man with glasses and a headset. The top-right feed shows a man with white hair and glasses. The bottom-left feed shows a man with glasses. The bottom-right feed shows a man with glasses. The Zoom interface is visible at the bottom.



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](#)

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Section
Articles



0.3 2019 CiteScore

AWARD CERTIFICATE

I2OR NATIONAL EMINENT YOUNG RESEARCHER AWARD 2020

presented to

Dr. Shahidmohammed Salauddin 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

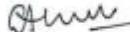
for successfully completing the course

**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. L. Suman

NPTEL Coordinator
IISc Bangalore



Indian Institute of Science Bangalore



Roll No: NPTEL200211521040046

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



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 Thangaraj
NPTEL Coordinator
IIT Madras

Jan-Apr 2020

Prof. Dileep N. Manikrao
Advisor (Placement, MDSU & Faculty Development)
All India Council for Technical Education

Roll No: NPTEL200E20511040175

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

The candidate has studied the above course through MOOC mode, has submitted online assignments and passed proctored exams.
This certificate is transferable/available for promotions under ODS as per AICTE notification dated 27th Aug 2019, similar to other transferable / certification courses.
For AICTE / HRD / FDP through MOOCs / BTE-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 Jadhav
Chairman
Centre for Continuing Education, IITM

Total number of candidates certified in this course: 1910

Sep-Nov 2020
(8 week course)

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL200E22581040074

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



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
--------------------	----------	----------------	----------

Prof. S. 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. Shrivardhan
NPTEL Coordinator
IISc Bangalore



Indian Institute of Science Bangalore



Roll No: NPTEL200E11521040004

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



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
--------------------	----------	----------------	-------

Dr. Bhanu Prakash

Prof. Bhanu Prakash
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://nptel.ac.in/nc>



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
--------------------	----------	----------------	---------

Dr. Bhanu Prakash

Prof. Bhanu Prakash
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: NPTEL20CC091521040393

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



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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Dr. Bhanu Prakash

Prof. Bhanu Prakash
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: NPTEL20CC099511040140

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

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 curriculam in engineering education	14-09-2020 to 09-11-2020	NPTEL Online Course
Prof. Jignesh K. Bhavsar	Fundamentals of outcome based curriculam in engineering education	14-09-2020 to 09-11-2020	NPTEL Online Course
Prof. Sandip J. Dawda	Fundamentals of outcome based curriculam in engineering education	14-09-2020 to 09-11-2020	NPTEL Online Course
Prof. Shahid S. Modasiya	Fundamentals of outcome based curriculam in engineering education	14-09-2020 to 09-11-2020	NPTEL Online Course
Prof. Tejas B. Sheth	Fundamentals of outcome based curriculam 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. Ujjval 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. Ujjval 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	sem	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	190133111004	Bhatt Nidhi Sudhirbhai	5	Online Course	NPTEL	Embeded System De
7	190133111004	Bhatt Nidhi Sudhirbhai	5	Yoga International Day Celebration	Panjab University ,Chandigarh	Philosophy
8	190133111004	Bhatt Nidhi Sudhirbhai	5	Webinar	St Joseph Institute of Technology, Chennai	Artificially Intelligent C
9	190133111004	Bhatt Nidhi Sudhirbhai	5	Webinar	Panjab University ,Chandigarh	"VEDA FOR WORLPI
10	190133111004	Bhatt Nidhi Sudhirbhai	5	Quiz	Parul University, Gujarat	Applications of Artifici
11	190133111004	Bhatt Nidhi Sudhirbhai	5	Quiz	Parul University, Gujarat	International-Level "S
12	190133111004	Bhatt Nidhi Sudhirbhai	5	Webinar	MCGRAW -HILL EDUCATION	Robotics- Connecting
13	190133111004	Bhatt Nidhi Sudhirbhai	5	Quiz	Sharda University, Noida	YOGA Awareness
14	190133111004	Bhatt Nidhi Sudhirbhai	5	Online Training	Mapping Skills Software Institute ,Noida	Python, Data Science
15	190133111004	Bhatt Nidhi Sudhirbhai	5	Online Lecture	Panjab University ,Chandigarh	"ELENCHUS" Scienti
16	190133111004	Bhatt Nidhi Sudhirbhai	5	Webinar	ASM IBMR, Pune	Outcome Based Educ
17	190133111004	Bhatt Nidhi Sudhirbhai	5	Webinar	INDUS University ,Gujarat	"CMOS-MERIMISTEPI COMPUTING"
18	190133111004	Bhatt Nidhi Sudhirbhai	5	Proficiency Test	Aurora's Technological & Research Institute,Hydrabad	English language Pro
19	190133111004	Bhatt Nidhi Sudhirbhai	5	Webinar	Panjab University ,Chandigarh	* Contribution to "NEC
20	180130111023	jain Prachi ajaykumar	5	online course	great learning	python
21	180130111023	jain Prachi ajaykumar	5	online course	great learning	ms-excel
22	180130111089	Pramit Saxena	5	online course	coursera	programming with pyt
23	180130111089	Pramit Saxena	5	online course	coursera	python data structure
24	180130111089	Pramit Saxena	5	online course	coursera	using python for web
25	180130111089	Pramit Saxena	5	online course	coursera	Retrieving, processing
26	180130111089	Pramit Saxena	5	online course	Hackerrank	python (basic)
27	180130111089	Pramit Saxena	5	online course	Freecodecamp	web designing
28	190130111036	Chauhan Pankti Bhagyeshkumar	3	Online Course	Google Unlock	Digital Marketing
29	190130111036	Chauhan Pankti Bhagyeshkumar	3	online Course	COGNITIVE CLASS. ai	Python 101 for Data S
30	190130111036	Chauhan Pankti Bhagyeshkumar	3	webinar	GEC gandhinagar	Concept and Impleme
31	190130111036	Chauhan Pankti Bhagyeshkumar	3	webinar	GEC gandhinagar	Machine learning with
32	190130111036	Chauhan Pankti Bhagyeshkumar	3	webinar	GEC gandhinagar	career options and gn
33	190130111036	Chauhan Pankti Bhagyeshkumar	3	webinar	GEC, Gandhinagar	Regression and Mode
34	190130111036	Chauhan Pankti Bhagyeshkumar	3	Quiz	ITEE Cyber welfare society	Cyber law awareness
35	190130111036	Chauhan Pankti Bhagyeshkumar	3	Webinar	GTU	Intellectual Property fi
36	190130111037	Rushabh Pankaj Chauhan	3	Online course	Udemy	Expert Coder: Learn .
37	180130111107	Tank Meet Govardhanbhai	5	Internship	The Spark Foundation	
38	180130111107	Tank Meet Govardhanbhai	5	Online Course	Udemy	Python for data scienc
39	180130111107	Tank Meet Govardhanbhai	5	Online Course	COGNITIVE CLASS. ai	Python 101 for Data S
40	180130111107	Tank Meet Govardhanbhai	5	Online Course	Great Learning	Python for machine le
41	180130111107	Tank Meet Govardhanbhai	5	Webinar	GEC, Gandhinagar	Regression and Mode
42	190130111031	chanpura shruti ashokbhai	3	online course	Google unlock	digital marketing
43	190130111031	chanpura shruti ashokbhai	3	webinar	GEC Gandhinagar	how to crack technica
44	190130111031	chanpura shruti ashokbhai	3	webinar	GEC Gandhinagar	machine learning with
45	190130111031	chanpura shruti ashokbhai	3	webinar	GEC Gandhinagar	career options and gn
46	190130111031	chanpura shruti ashokbhai	3	webinar	GEC Gandhinagar	regression and model
47	190130111031	chanpura shruti ashokbhai	3	yoga workshop	GTU	philosophy of yoga
48	190130111031	chanpura shruti ashokbhai	3	Quiz	ITEE cyber welfare society	cyber law awarness q
49	190130111031	chanpura shruti ashokbhai	3	Quiz	NSS unit gecgn	rashtriya eka divas, c
50	170130111112	Suthar Arun Chhaganlal	7	campus ambassador for online tech fest	IIT, GHANDHINAGAR	increase students for
51	170130111112	Suthar Arun Chhaganlal	7	design own PCB	Autodesk Engie	
52	170130111112	Suthar Arun Chhaganlal	7	internship in home automation	career electronics	doing internship on wi
53	170130111112	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/1gsXkuev2oeva0UYA8m6RIRv0EQmOJlexR1Gz6gkxXbA/edit#gid=640725072>

⁵<https://docs.google.com/spreadsheets/d/1KCVGKID2nHN0B9mWhz5Eaik4jzEWFFlpRINT1D-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/ncs/>

Roll No: NPTEL20CS15515B3238
To: BHATT NIDHI SUDHIRBHAI
DIRECTOR OF STUDY INQUIRY BH CHANDRA
SHALLOKRAM TEMPLE
KANDHAWANGAR
BUMBAH (INDIA)
PIN-NO-877316222



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

Prof. Adrijit Goswami
Dean, Continuing Education & NPTEL, Coordinator
of the topic

Jan-Mar 2020
(8 week course)



Indian Institute of Technology Kharagpur



*Continuous online assessment score

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



YOGA AWARENESS QUIZ
SCHOOL OF BUSINESS STUDIES



Certificate

graciously awarded to

NIDHI SUDHIRBHAI BHATT

for participating in Yoga Awareness Quiz on
18th International Yoga Day (21 June, 2020)


Dr. Medhu Sharma
Coordinator


Dr. Deepankar Chakrabarti
Dean, SBS







Thanking for your valuable guidance! 🙏🙏🙏

DARSHIL PATEL (+91)9111111111@gmail.com
 10/12/2020 12:02:13 AM

Hi,
 Goodday!

I would like to thank you for your kind and respectful know, advice, guidance and suggestions on my paper. I am happy to inform you that my paper has been selected for oral presentation at IEEE ICNTE (International Conference on Nascent Technologies in Engineering) to be held in January by FRCTI college (Chennai). Thanks again for your inputs and time to review my paper.

I have also attached my edited paper in this email. I have made some improvements in it so that its results can be clearly presented, please have a look if you can. However, there are not implemented any design with discrete components as suggested and I am planning to do it soon after my return.

Regards,
 Darshil Patel





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

ET&A, Special Issue 16:1 (60)
Volume 16, January 2021

A SURFACE EDGE CUTOUT MICROSTRIP PATCH ANTENNA FOR 5G APPLICATIONS

Priyanshu Rani Rajkumar, Ajani Chandani, Jahnavi Deshmukh, Shahid Moclasiya

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

Abstract

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



NPIU



ICRISET-2020

International Conference

on
**RESEARCH AND INNOVATIONS IN
SCIENCE, ENGINEERING & TECHNOLOGY**
4th - 5th September, 2020

Certificate of Presentation

This is to Certify that
P-Shaped and Elliptical Slot loaded Wideband
Microstrip Antenna for 5G Communication

Was Presented

at

**2ND INTERNATIONAL CONFERENCE (DIGITAL) ON
RESEARCH AND INNOVATIONS IN
SCIENCE, ENGINEERING & TECHNOLOGY
ICRISET - 2020**

held at

BIRLA VISHVAKARMA MAHAVIDYALAYA ENGINEERING COLLEGE,
VALLABH VIDYANAGAR, GUJARAT, INDIA
during 4th - 5th SEPTEMBER, 2020

**AUTHORS :- Anil Periya, Yagnik Moga,
Nandan Patel and Shahid Modasiya**



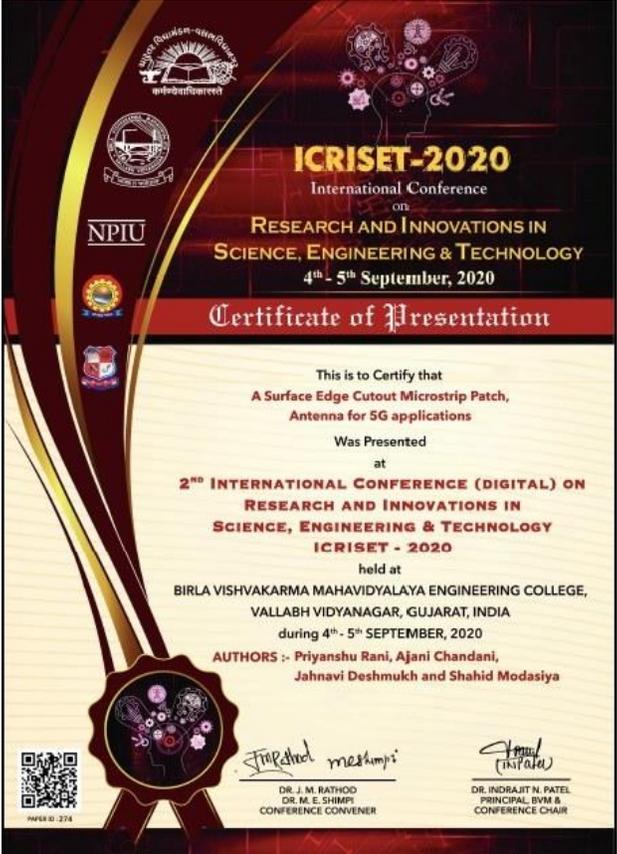
ICRISET-2020

J. M. Sakhod

DR. J. M. SAKHOD
DR. M. S. SHIRSI
CONFERENCE CONVENER

Indrajit N. Patel

DR. INDRAJIT N. PATEL
PRINCIPAL, VVM &
CONFERENCE CHAIR



NPIU



ICRISET-2020

International Conference

on

**RESEARCH AND INNOVATIONS IN
SCIENCE, ENGINEERING & TECHNOLOGY**

4th - 5th September, 2020

Certificate of Presentation

This is to Certify that
A Surface Edge Cutout Microstrip Patch,
Antenna for 5G applications

Was Presented

at

**2nd INTERNATIONAL CONFERENCE (DIGITAL) ON
RESEARCH AND INNOVATIONS IN
SCIENCE, ENGINEERING & TECHNOLOGY
ICRISET - 2020**

held at

BIRLA VISHVAKARMA MAHAVIDYALAYA ENGINEERING COLLEGE,
VALLABH VIDYANAGAR, GUJARAT, INDIA
during 4th - 5th SEPTEMBER, 2020

**AUTHORS :- Priyanshu Rani, Ajani Chandani,
Jahnvi Deshmukh and Shahid Modasiya**



PAPER ID: 274

J. M. Rathod *mesumpi*

DR. J. M. RATHOD
DR. M. E. SHIMPI
CONFERENCE CONVENER

Indrajit N. Patel

DR. INDRAJIT N. PATEL
PRINCIPAL BVM &
CONFERENCE CHAIR

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/1qsXkuev2oevaoUYA8m6RIRv0EQmOJlexR1Gz6gkxXbA/edit#gid=640725072>

⁷<https://docs.google.com/spreadsheets/d/1KCVGKID2nHN0B9mWhz5Eaik4jzEWFfLpRINT1D-YF3E/edit#gid=0>



Certificate

This is to certify that Aarshi Shah
has participated
in
**DD-ROBOCON 2020 Online Festival held at Indian Institute of Technology
Delhi, New Delhi on October 27, 2020**

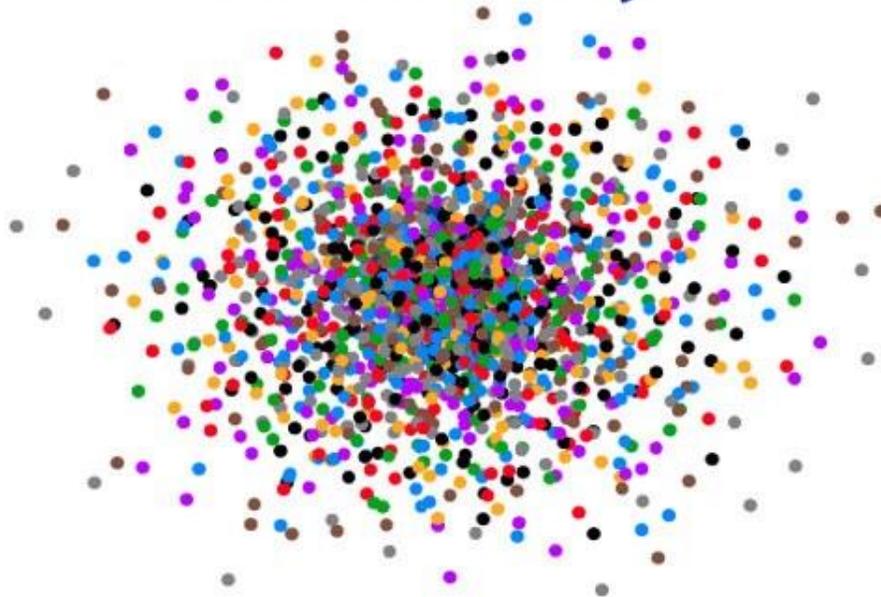
[Signature] [Signature] [Signature]
Prof. K. Rama Krishna **Prof. Sanil Jha** **Prof. S.K. Saha**
Co-Organizer, IIT Delhi Co-Organizer, IIT Delhi Organizer, IIT Delhi





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 આકોશને 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. ૨૩/૦૯/૨૦૨૦

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. બેકર
તા. ૨૮/૧૨/૨૦૨૦

Contact Us:

Correspondence Address:

Electronics & Communication Engg. Department

Block No.2, Govt. Engg. College, Sector-28,

Gandhinagar, Gujarat - 382028

Phone: 7923215167

Email: hod.ec@gecg28.ac.in

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