



E-Newsletter of Electronics & Communication Engg. Department (JULY to DEC-2021)

Greetings from Electronics & Communication Engineering Department - GEC, Gandhinagar!!

It gives me an immense pleasure to present the E-newsletter of the E & C Department (July-December 2021) 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 process 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. And even in the so called "Third wave" of pandemic, we together have proved that "teaching-learning must go ON irrespective of any difficulties".

The faculties of E&C dept. committed to their role of being a teacher-cum-mentor-cum-facilitator during this tough time and with the continuing wholehearted support from the students and alumni of the E&C department, we will keep achieving the greater heights at our best.

This E-Newsletter encapsulates all such moments to cherish with all my beloved stakeholders of the E&C Department. Once again, keep that spirit of Teaching-Learning alive!

Stay Healthy and Stay Safe.

Best Wishes,

Prof. (Dr.) Kishor G. Maradia, HoD- E&C Dept.

GEC-Gandhinagar

About the Institute



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 EC Department

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.

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 industrial and societal requirements.*

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, R & D organizations and society.

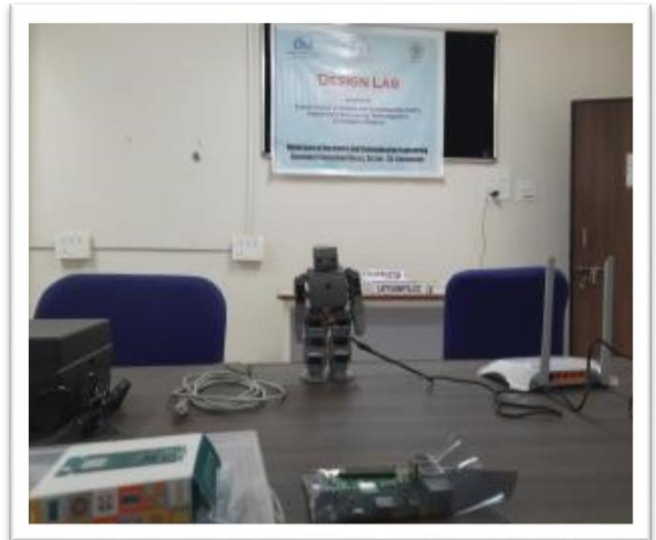
Faculties @ E&C Dept.

| Professor | Associate Professor | Assistant Professor | Lab Assistant |
|------------------|----------------------------|----------------------------|----------------------|
| 01 | 01 | 18 | 01 |

| Sr.No | Name of Faculty | Designation |
|--------------|------------------------|-----------------------|
| 1 | Prof.(Dr.) K.G.Maradia | Professor-HoD |
| 2 | Prof.T.B.Sheth | Associate Professor |
| 3 | Prof.J.K.Bhavsar | Assistant Professor |
| 4 | Prof.A.A.Vithalani | Assistant Professor |
| 5 | Prof.S.H.Patel | Assistant Professor |
| 6 | Prof.K.K.Patel | Assistant Professor |
| 7 | Prof.D.H.Patel | Assistant Professor |
| 8 | Prof.N.M.Banker | Assistant Professor |
| 9 | Prof.S.S.Modasiya | Assistant Professor |
| 10 | Prof.S.J.Dawda | Assistant Professor |
| 11 | Prof.N.K.Prajapati | Assistant Professor |
| 12 | Prof.S.J.Rajput | Assistant Professor |
| 13 | Prof.U.R.Dave | Assistant Professor |
| 14 | Prof.H.K.Patel | Assistant Professor |
| 15 | Prof.N.J.Chhasatia | Assistant Professor |
| 16 | Prof.P.A.Koringa | Assistant Professor |
| 17 | Prof.R.G.Pandey | Assistant Professor |
| 18 | Prof.R.C.Butani | Assistant Professor |
| 19 | Prof.N.K.Bhatt | Assistant Professor |
| 20 | Prof.N.M.Shyal | Assistant Professor |
| 21 | Mr.B.K.Parmar | Laboratory Instructor |

Facilities @ E&C Dept.

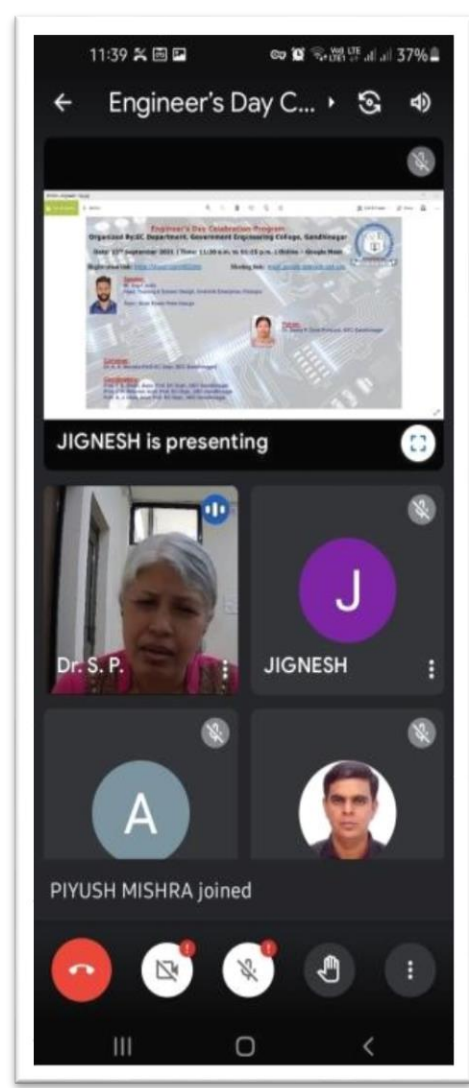
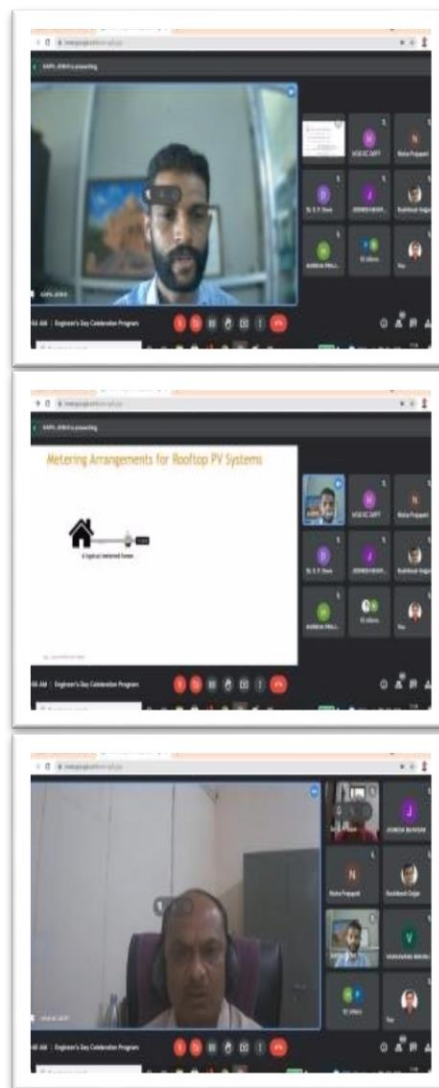
At E&C Department, students are trained across the entire spectrum, which goes much beyond curriculum. E&C Department is having separate laboratories with all sophisticated equipment, instruments & trainers under State Government & TEQIP-II grant. We feel proud to have the state of the art facilities 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.



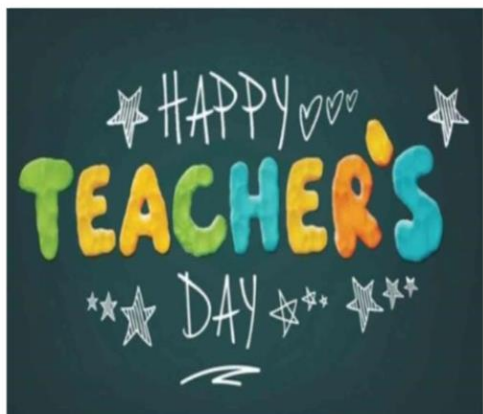
Engineer's Day Celebration



EC Department, Government Engineering College, Sector-28, Gandhinagar celebrated Engineer's Day by remembering Sir, M. Visvesvaraya on his 160th birth anniversary Dt. 15/09/2021. Event started with prayer. Our principal madam Prof.(Dr.) Sweta P. Dave gave speech on this occasion. Then after, Our head of the department Dr.K.G.Maradia gave inspiration speech about Engineer's Day. All the participants were benefited by very informative and technical inputs by an industry expert Mr. Kapil Joshi, Head, Training & System Design, Inventrik Enterprise, Palanpur, Gujarat on Topic "Solar Power Plant Design". In all, more than 90 participants took part of this event.



Teacher's Day Celebration



Students of E&C Department have celebrated the Teacher's Day on the occasion of birth anniversary of a great teacher Dr. Sarvapalli Radhakrishnan by delivering the lectures to their colleagues under the guidance of faculty members on Dt.05/09/2021 at E&C Department.

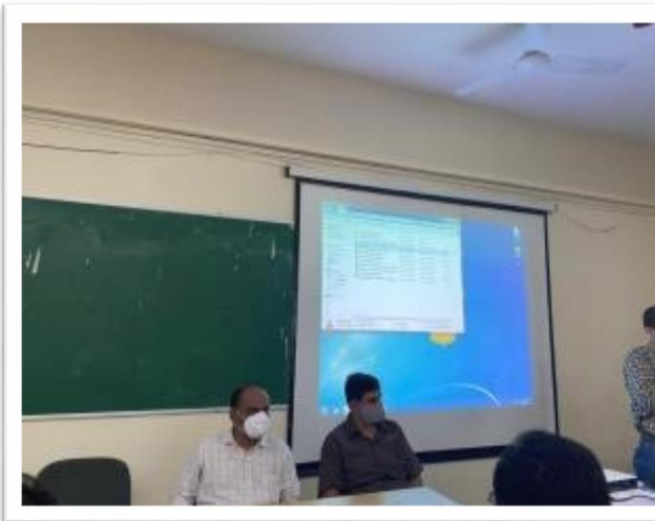


Orientation Program for First Year E&C Students



An Orientation Program have been arranged to welcome the First Year students of Electronics & Communication Engineering students on Dt. 28/09/2021 at E&C Department.

Prof. (Dr.) K.G.Maradia, Professor & Head of the Department had given the welcome address to the first year students followed by sharing the Vision, Mission PEOs & PSOs of the department.



Activities for First Year E&C Student

Expert Talk:

E&C Department had organized an expert session for the first year students on the topic **"Introduction to EC Engineering: An overview of Electronic Sector"** delivered by **Prof.(Dr.) Kiran Parmar, Professor & Head, AIIE, Ahmedabad** dated 06/10/2021.

Webinar on "NBA Awareness":

E&C Department have organized the **webinar on "NBA Awareness"** towards larger benefit for the stakeholders of E&C Dept. as on Dt. 07/10/2021. All the first year E&C Students along with the faculty members of E&C department have participated in this webinar.

Industry Expert Talk @EC-GECGn:

EC Department, Government Engineering College, Sector-28, Gandhinagar had organized Industrial Expert Lecture on 28/09/2021. Event started with prayer. Our head of the department Dr.K.G.Maradia had given an inspirational welcome speech. Then all participations are benefited by very informative and technical inputs by an **industry expert Mr. Nilay Mehta, Lead Physical Design, Eteros Technologies, Ahmedabad** on Topic **"Asic Flow and Physical Design"**. Our head of the department Dr.K.G.Maradia had also summarized the lecture at the end. Around 160 participants had taken part in this event.

SSIP Events

A series of webinars have been organized for the benefit of the students towards the SSIP awareness to the know-how of applicability/modality of SSIP under the kind mentorship of Prof.(Dr.) Kishor G. Maradia, HOD-EC Dept.

 **GOVERNMENT ENGINEERING COLLEGE
GANDHINAGAR** 
SSIP CELL GEC-Gandhinagar
Organizes
A Webinar
"How to choose and sustain Start ups"
(Initiated by IC Dept)

Speaker: Mr. Anand Pandey
Deputy Manager (Commercialization)
IT Gandhinagar- Innovation and Entrepreneurship Center
Indian Institute of Technology Gandhinagar



Date: 4th Sep -2021, Saturday TIME: 11:30 A.M to 12:30 P.M
JOIN MS TEAM LINK: <https://tinyurl.com/y898c8ry>

Patron: Dr. S. P. Dave- Principal


SSIP Mentor: Dr. K. G. Maradia
H.O.D- EC Dept
SSIP Coordinator: Prof.K.K.Acharya
Asst. Professor- IC Dept

 **GOVERNMENT ENGINEERING COLLEGE
GANDHINAGAR** 
SSIP CELL GEC-Gandhinagar
Organizes
A Webinar
"Creativity, Innovation & Entrepreneurship"

Speaker: Dr. Lalit Sharma
Faculty,
Entrepreneurship Development Institute of India
Bhat, Gandhinagar, Gujarat



Date: 20th Sept -2021, Monday
Time: 10:30 a.m to 12:30 p.m

 Entrepreneurship Development
Institute of India (EDI)
Predefined Institution of Entrepreneurship



Join Google Meet Link: <https://meet.google.com/wbu-whaq-srd>



SSIP Mentor: Dr. K. G. Maradia
Professor & Head- EC Dept
SSIP Coordinator: Prof. K.K.Acharya
Asst. Professor- IC Dept

Patron: Dr. S. P. Dave- Principal
GEC, Gandhinagar



SSIP Cell Member-Dr.P.K.Nanavati
Asst. Professor - Metallurgy Dept

 **GOVERNMENT ENGINEERING COLLEGE
GANDHINAGAR** 
SSIP CELL GEC-Gandhinagar
Organizes a webinar for Govt. Polytechnic Gandhinagar
"SSIP Ecosystem for students' Integrated Growth"

Speaker: Prof.K.K.Acharya
Asst. Professor-IC
SSIP Coordinator-GEC- Gandhinagar

Date: 31st JULY -2021
TIME: 11:30 A.M to 12:30 P.M

Patron: Dr. S. P. Dave (Principal)
SSIP Mentor: Dr. K. G. Maradia


 Online webinar on
Startup Era: 
**Transformation in the
Entrepreneurial mindset**
Organized By: SSIP Cell, GEC, Gandhinagar


Register on:
[Bit.ly/SSIP-Breath-a1](https://bit.ly/SSIP-Breath-a1) Saturday, 17 July 2021
Live start at 11 AM


Patron:
Dr. Suresh P. Dave, Principal, GEC, Gandhinagar


Convener:
Prof. Dr. J. C. G. Maradia, Mentor, SSIP Cell, GEC, Gandhinagar

Coordinator:
Prof. Kishor G. Maradia, SSIP Cell Member, GEC, Gandhinagar
Prof. Pooja K. Patel, SSIP Team Member, BM Dept., GEC

 **MANISH MANDAVIYA**
FOUNDER

 **PRATIK THAKUR**
CO-FOUNDER





MANN KI BAAT

Towards celebrating the 75th Year of Independence, GEC, Gandhinagar has organized the event "Mann Ki Baat" for 1st year students with our respected director of technical education Shri G T Pandya sir on Dt. 20.10.2021, 11:00 AM at C V Raman Hall. Students & faculty members of E&C Dept. have participated in this event and exchange the thoughts on teaching-learning at their best.

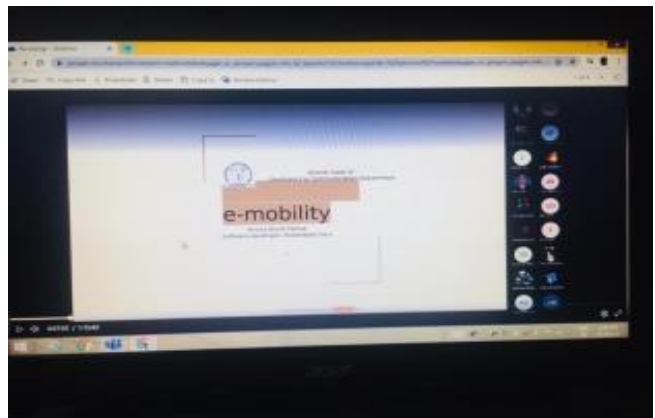
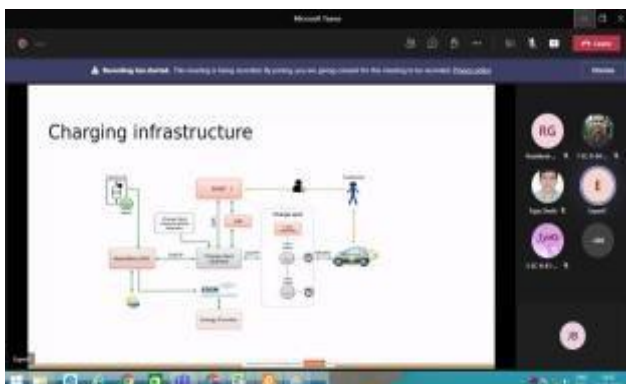
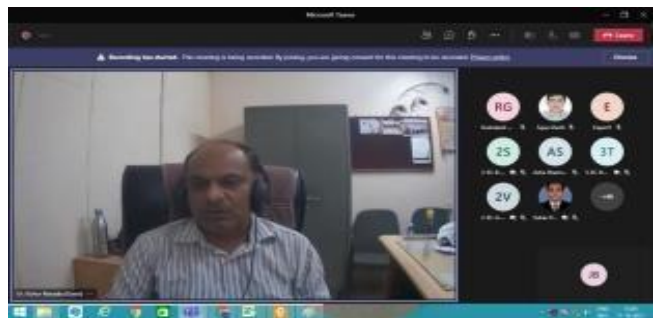
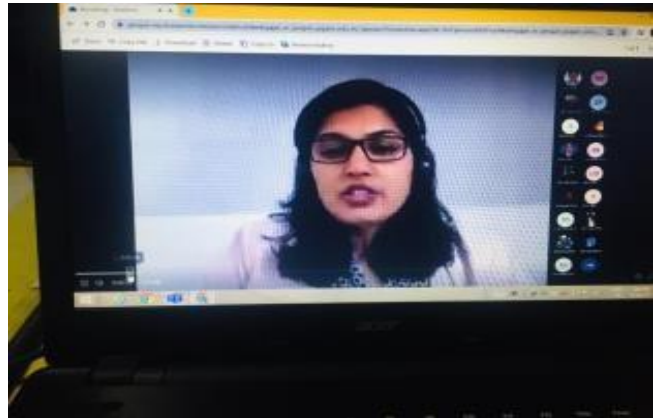


E&C Online Alumni Meet- 2021

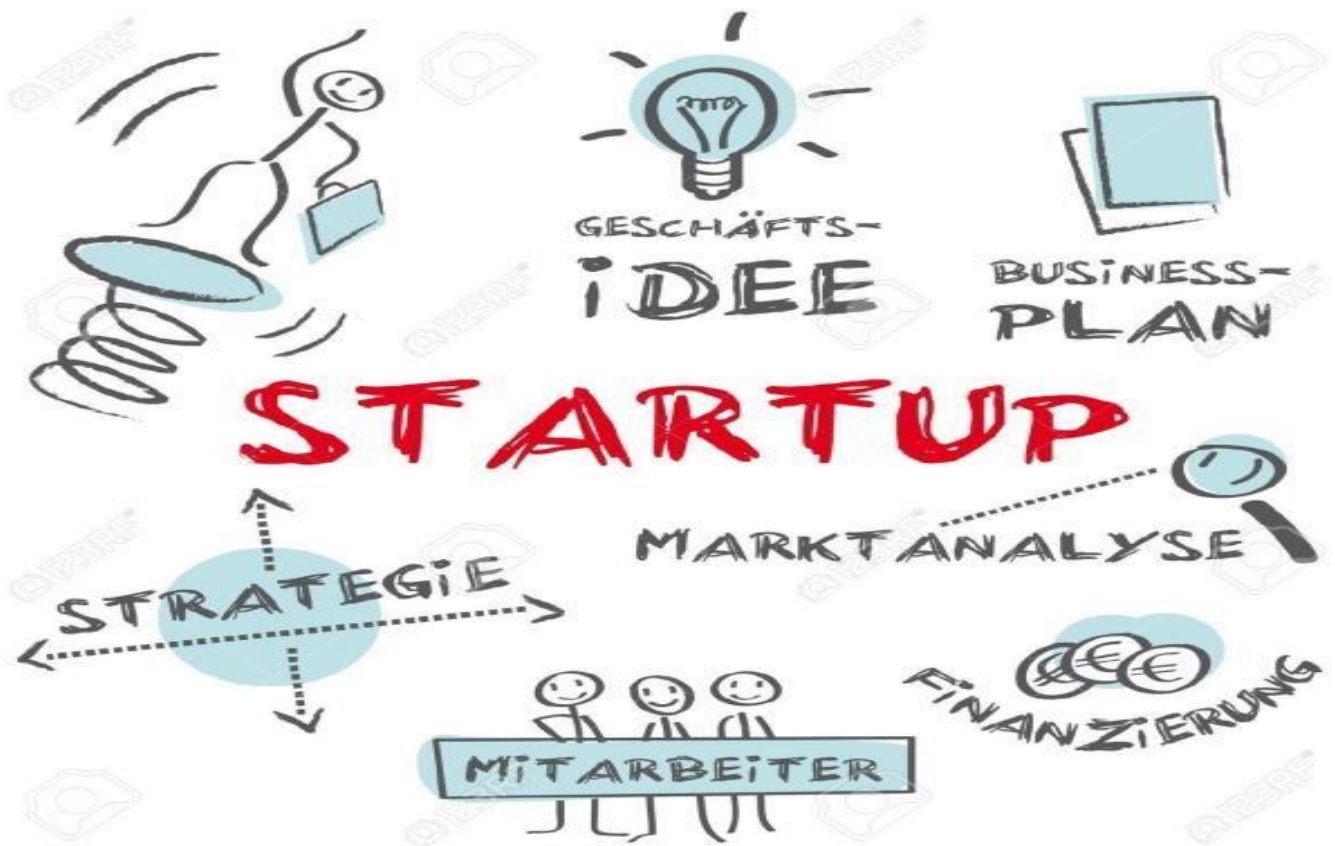


The Department of ELECTRONICS & COMMUNICATION ENGINEERING had organized an Online Alumni

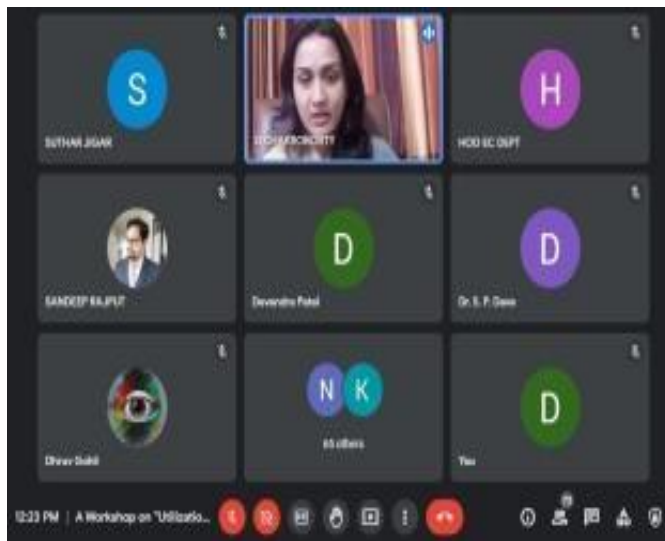
Meet- 2021 for all batches on 11th October 2021 through Google meet platform. In total, more than 90 nos. stakeholders have participated in this online alumni meet. Our alumni and faculty members have participated in this Online Meet by delivering the expert talk and sharing their memories with the department, 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.



Start-up & Entrepreneurship Workshop



EC Dept. has organized a workshop on “Utilization of Design Lab and PoC Sustainability for Startups and Entrepreneurship” on Date: 6th August, 2021, Time: 11:30 a.m. to 01:30 p.m. via Online – Google Meet

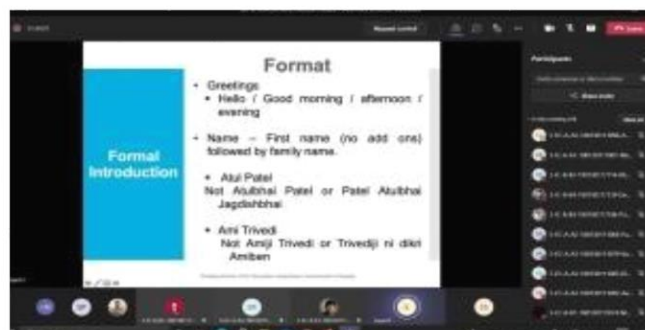
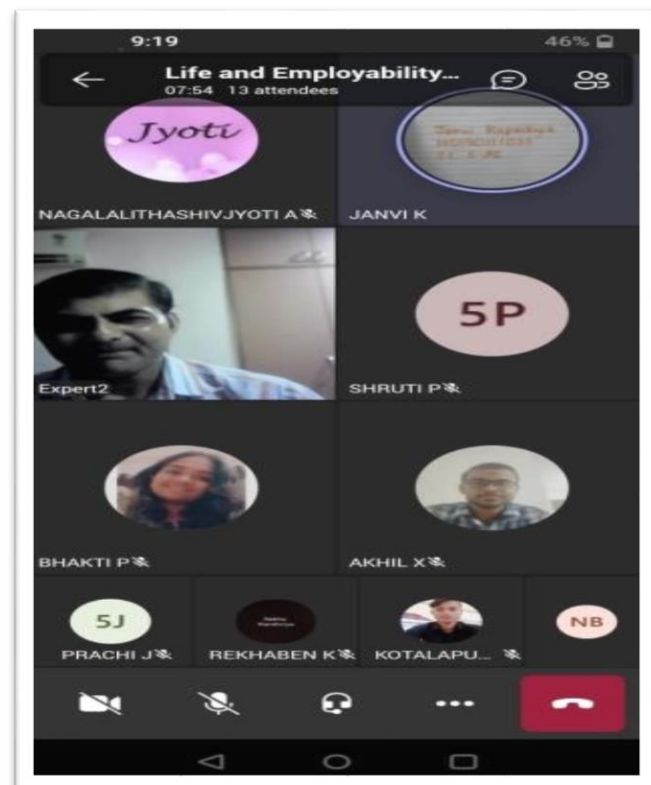


Finishing School Program

Electronics & Communication Engineering Department, Govt. Engg. College, Gandhinagar has organized Finishing School Programme (FSP), one of the flagship programs started by Knowledge Consortium of Gujarat established by the Department of Education, Government of Gujarat towards enhancing the Soft-Skills and related activities for the benefit of students.

In total, 34 Students of Final Year E&C students have been benefited by this Finishing School Programme (FSP) during the following schedule:

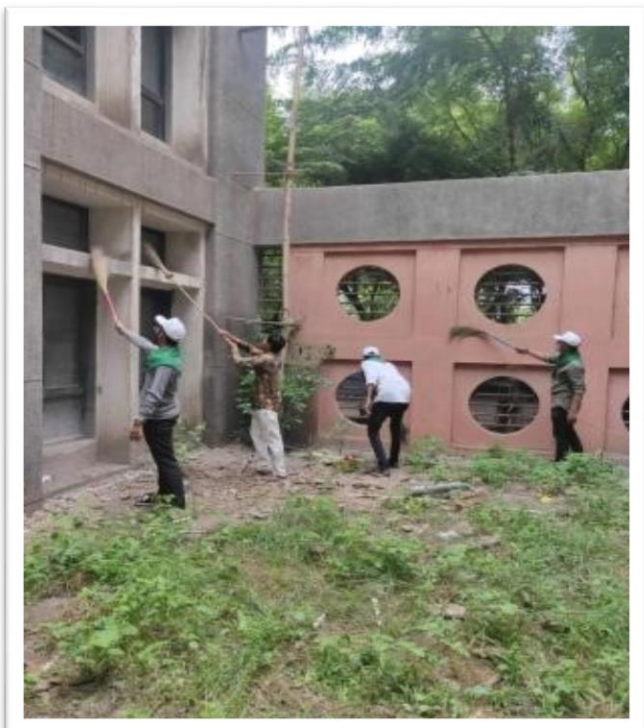
Duration : 26/07/2021 to 05/08/2021 Resource Person: Mr. Maulik Shah, Empanelled KCG Trainer



Societal Activities

Cleanliness Drive:

Cleanness drive on 11/08/2021 under swachhatapakhwada from 1st august 2021 to 14th august 2021.



Tree Plantation:

Tree Plantation drive on 05/08/2021 under swachhatapakhwada from 1st august 2021 to 14th august 2021.

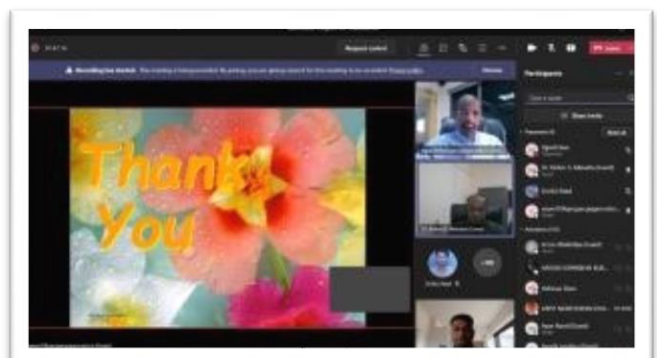
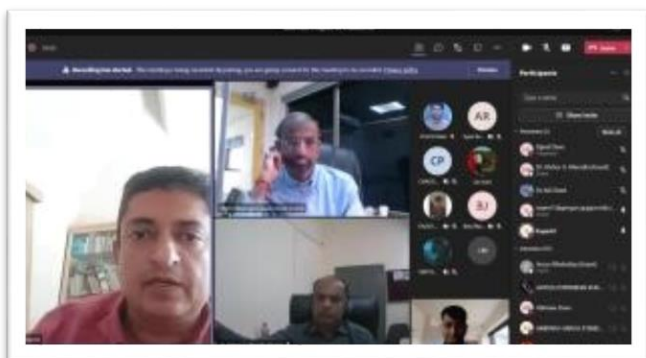
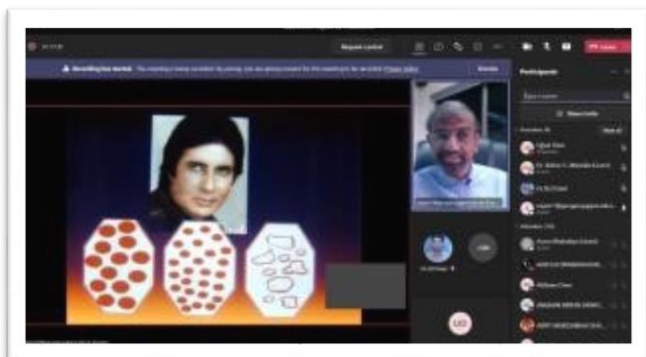


Thalassemia Awareness Program



Towards celebrating the 75th Year of Independence, GEC, Gandhinagar in association with Rotary Club Ahmedabad Metro has organized a webinar on **Thalassemia Awareness Program** on Dt. 19/11/2021 under the convenorship of Prof.(Dr.) Kishor G. Maradia, HOD-E&C Dept.

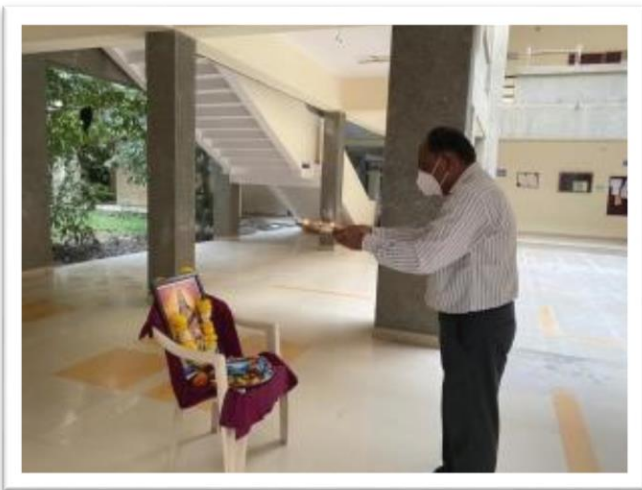
| | |
|---------------------|--|
| 12:30 PM to 1:00 PM | Joining through MS Team |
| 1:00 PM to 1:02 PM | Introduction of Program and welcome to speakers by Prof. Ujjval Dave, Assistant Professor-EC |
| 1:02 PM to 1:07 PM | Welcome Speech by Shri. Vatsal Shah, President, Rotary Club Ahmedabad Metro |
| 1:07 PM to 1:45 PM | Expert talk by Dr.Maulik Bakshi MD (Pediatrician) |
| 1:45 PM to 2:00 PM | Questions & Answers. |
| 2:00 PM to 2:05 PM | Concluding Remarks by Dr.K.G.Maradia, HOD(EC) |
| 2:05 PM to 2:10 PM | Vote of Thanks by Prof. Ujjval Dave, Assistant Professor-EC |



“MAA Saraswati Vandana” Program



During the festive season of NAVRATRI, E&C Dept. has initiated the “MAA Saraswati Vandana” Program towards praying for the betterment of the humankind during the pandemic situation and enlighten the society by enlarge.

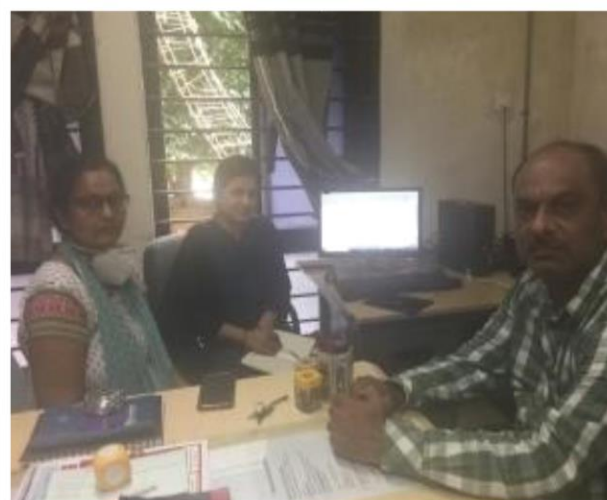


Pedagogy Sessions on NBA Criterion/s



| Sr. No. | Name of Faculty | NBA Criterion | Duration |
|---------|---|---------------|------------|
| 1. | Prof. N. M. Bankar (AP-EC) Prof. D. T. Ratnakar (AP-EC) | Criterion-1 | 23/7/2021 |
| 2. | Prof. T. B. Sheth (Asso. Prof.-EC) Prof. J. K. Bhavsar (AP-EC) | Criterion-2 | 30/07/2021 |
| 3. | Prof. A. A. Vithalani (AP-EC) Prof. N. K. Prajapati (AP-EC) | Criterion-3 | 06/08/2021 |

*Faculty members of EC Dept. has presented the Pedagogy Sessions on respective NBA Criterion wise Status as well **NBA Awareness & implementation strategies in the E&C Department** under the mentorship of Prof.(Dr.)K.G.Maradia – HOD, E&C Dept.*



E&C Faculty –Training/MOOC Courses

❖ E&C Faculty –Training/MOOC Courses:

- Prof.(Dr.) Avani A. Vithlani has participated in the NPTEL Online Course on "Soft Skills" during 26/7/2021 to 15/10/2021.
- Prof.(Dr.) Avani A. Vithlani has successfully completed 02 Credit course under the SWAYAM Online Course on "Fundamentals of Outcome based curriculum in Engg. Education" on 16/08/2021.
- Prof. Jignesh K. Bhavsar has participated in the NPTEL Online Course on "Soft Skills" during 26/7/2021 to 15/10/2021.
- Prof. Jignesh K. Bhavsar has successfully completed 02 Credit course under the SWAYAM Online Course on "Fundamentals of Outcome based curriculum in Engg. Education" on 16/08/2021.
- Prof.(Dr.) Shahid S. Modasiya has participated in the NPTEL Online Course on "Soft Skills" during 26/7/2021 to 15/10/2021.
- Prof.(Dr.) Shahid S. Modasiya has successfully completed 02 Credit course under the SWAYAM Online Course on "Fundamentals of Outcome based curriculum in Engg. Education" on 16/08/2021.
- Prof. Abhinav J. Dave has participated in the NITTTR Bhopal Online training on " Multisim for Analog and Digital Circuit Design" during 16/08/2021 to 20/08/2021.
- Prof. Suhas H. Patel has participated in the NITTTR Bhopal Online training on "Technical Research Methodology" during 30/08/2021 to 03/09/2021.
- Prof. Suhas H. Patel has participated in the NITTTR Bhopal National Conference on "Innovation in Technical Education" on 18/11/2021.
- Prof. Suhas H. Patel has successfully completed 02 UDEMI courses in the broad area of Object detection & Computer Vision respectively on 21/07/2021 & 08/09/2021.
- Prof. Devendra H. Patel has participated in the NITTTR Bhopal Online training on "Technical Research Methodology" during 30/08/2021 to 03/09/2021.
- Prof. (Dr.) Purvi Koringa has successfully completed 12 weeks NPTEL-SWAYAM course on "Learning Analytics Tools " during July-Oct 2021.

EC Dept.- Noteworthy Achievement

Towards establishing the state-of-art Advance Communication laboratory in the campus of GEC, Gandhinagar, E&C Department has submitted the Proposal for 'Center for Advance Communication Systems'- (CACS) Lab worth grant of Rs. 02 Crore to O/o Directorate of Technical Education, Govt. of Gujarat on Dt. 17/11/2021.

Congratulations to Team –E&C Department!

EC - Placement & Higher Studies Details:

| Particulars | Academic Year 2020-21 | Top Recruiters: 1) TCS 2) TATVASOFT 3) Abjayon Consultancy Pvt. Ltd. 4) Estee Advisors Pvt. Ltd. 5) Surekha Technologies Pvt. Ltd. 6) Radixweb 7) Zignuts Technolab Pvt. Ltd. 8) SILVERWING TECHNOLOGIES PVT. LTD. 9) MANTRA SOFTECH |
|--|--------------------------|---|
| Total No. of Final Year Students | 126 | |
| No. of students placed in companies or Government Sector | 23 | |
| No. of students admitted to higher studies with valid qualifying scores (GATE or equivalent State or National Level Tests, GRE, GMAT etc.) | 13 | |
| No. of students turned entrepreneur in engineering/technology | 1 | |
| Total Students Placed | 37 | |
| Placement Index (%): | 29.36% | |
| Average placement (Last Three Academic Years) | 30.32% | |

GTU Robotics Club (GRC)@GECGn:

EC Department, GEC Gandhinagar in association with GTU Robotics Club (GRC) organized a short introductory session on 6/9/2021 at GEC Gandhinagar campus to increase the awareness of students regarding Team Formation 2022 of GTU Robotics Club. The purpose of this event was to introduce students to the competitions like ABU Robocon, e-yantra and Mitsubishi Electric Cup. Dr. K. G. Maradia (HoD, EC Dept) has continuously given guidance and support to students for these programs.

The event ended with a display of photos and videos which showed the journey from simple line follower robots to the robots which will be representing India at ABU Robocon 2021.



Creative Corner of E&C Dept.

કેમ કે, આજે મારું મિડિયા ખોરવાઈ ગયું છે...

રખે ને અજાણે જ, મારું સર્વર ખોટકાઈ ગયું છે,
ખરેખર જાણે કે, મારું સર્વસ્વ લૂંટાઈ ગયું છે,

કેમ કે, આજે મારું મિડિયા ખોરવાઈ ગયું છે..

ક્યાંક કેટકેટલીય યાદો, જાણે અધવચ્ચે જ અટવાઈ ગઈ છે,
ખરેખર જાણે કે, મારી સઘળી લાગણીઓ જ રુંધાઈ ગઈ છે,

કેમ કે, આજે મારું મિડિયા ખોરવાઈ ગયું છે..

ક્યાંક કેટકેટલીય આંખો ને આંગળીઓની, જાણે ચુપકીદી સઘાઈ ગઈ છે,
ખરેખર જાણે કે, મારી આખેઆખી ઇમેજ જ ખરડાઈ ગઈ છે,

કેમ કે, આજે મારું મિડિયા ખોરવાઈ ગયું છે..

ક્યાંક કેટકેટલો અમૂલ્ય સમય, જાણે પળવારમાં જ થંભાઈ ગયો છે,
ખરેખર જાણે કે, નાણાકીય સાપસીડીમાં મને સાપ કરડવા પામ્યો છે,

કેમ કે, આજે મારું મિડિયા ખોરવાઈ ગયું છે..

રખે ને "ઝુકર", તું રોજેરોજ સૌ કોઈને ઝુકાવી જાય છે,
ખરેખર જાણે કે, આજે કુદરત તને જ ઝુકાવી ગઈ છે,

કેમ કે, આજે મારું મિડિયા ખોરવાઈ ગયું છે..

ઝુકરબર્ગ ની ૪-૫ ઓક્ટોબર ૨૦૨૧ ની કાલ્પનિક લાગણીઓ...મારા શબ્દો થકી,

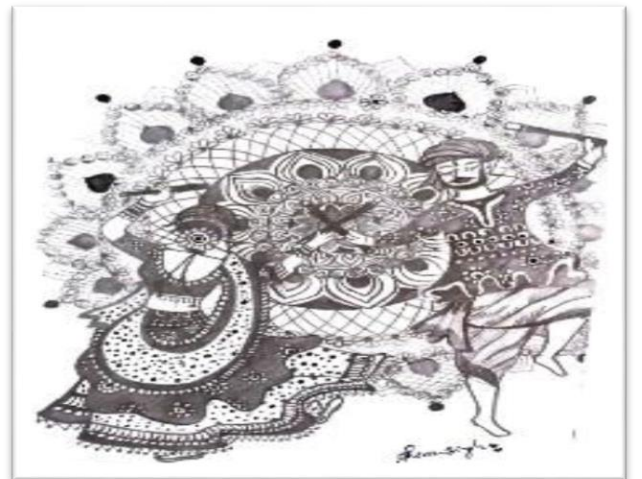
તા. ૨૦/૧૦/૨૦૨૧
પ્રો. નિલેશ એમ. બેકર



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