

## ***Electronics & Communication Engg. Department***

**Greetings from the E&C Dept., GEC-Gandhinagar.** It gives me an immense pleasure to launch an official E-newsletter of Electronics & Communication Engg. department. We feel proud to be part of the world of Digital Communication with Integrated Electronics. On this special issue, where the world is facing a pandemic situation, we need to make sure that being an E&C Engineer, we can help the society by enlarge with the use of technology. I feel very happy to say that even during this situation, our stakeholders make the right move towards the teaching-learning process with the effective use of technology. On behalf of E&C Dept., I would like to congratulate all my beloved students and dedicated faculty members of E&C Dept. for being a part of this journey of learning.

*Stay Healthy and Stay Safe.*

*Best Wishes,*

*Prof. (Dr.) Kishor G. Maradia*

*Head of E&C Dept. - GEC-Gandhinagar*

## About the Institute: GEC-Gn<sup>1</sup>



### **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.<sup>2</sup>

### **Vision of the 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 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.

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<sup>1</sup><http://www.gecgh.cteguj.in/>

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

- To provide the platform for students to perform the project work related to needs of society.



### *At E&C Dept...*

**At E&C Department**, students are trained across the entire spectrum, which goes much beyond curriculum. Wireless Communication, DSP & Embedded technology, VLSI, satellite communication, radars, microwave and other tech savvy fields with latest developments are covered in detail. E&C Department is having six separate laboratories with all sophisticated equipments, instruments & trainers under State Government & TEQIP-II grant.









*In this special issue...*

***In this special issue while dealing with the pandemic of COVID-19, we will take you to the glimpse of the following activities undergone by the E&C Dept. during the period of January to June -2020.***

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

## ***Department Activities:***

### ***Inauguration of Design Lab:***

To provide the platform to the young students with creative and innovative ideas, “***Design Lab***” is established in ***Electronics & Communication Engineering Department, Government Engineering College, Gandhinagar by Gujarat Council on Science and Technology (GUJCOST), Department of Science and Technology, Govt of Gujarat on 7/3/2020.***

In the Design Lab, Students can transform their idea into a tangible form. Students and academic researcher with innovative ideas, can get benefited with such Design Labs, where they can easily transform their creative ideas into deliverable form, at least on a lab scale or pilot project basis. Design Labs in Engineering and Technology disciplines work as a generator of intellectual properties like patents and industrial designs.



1 - Banner



2 - Welcome Rangoli



3 - Ribbon Cutting -Design Lab by Dr. Narottam Sahoo-Advisor & Member Secretary, GUJCOST-Gandhinagar



4 - Showcase of Design Lab Components



5 - Briefing of Design Lab By Dr. K.G.Maradia-Professor & Head EC



*6 - Release of Design Lab flyer*



*7 - Briefing*



*8 - Design Components*



9 - Team



10 - Audience



11 - Design Components



12 - Design Components



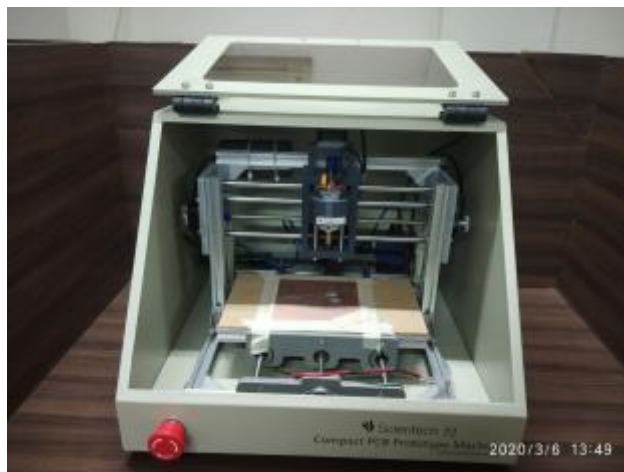
13 - Design Components



14 - Design Components



15 - Team Anchor



16 - Design Components



17 - Group Photograph-Design Lab

### *Pedagogy Session on NBA Awareness:*

*A Pedagogy session on **NBA Awareness and Implementation Strategies in E&C Dept.** was conducted at Room No:2001, EC Department, GEC-Gandhinagar on Dt. 18/01/2020 by Prof. C. R. Parekh - Assoc. Professor E&C Dept..*



### ***CO-PO Attainment Workshop in context of NBA:***

*A workshop on Course Outcomes(CO)- Program Outcomes(PO) Attainment was conducted By Prof. C.R.Parekh & Prof. S.S.Modasiya.at Room no:2003,Electronics & Communication Engineering Department, GEC-Gandhinagar.*



### ***Demonstration of Software Defined Radio (SDR) Kit:***

***Software Defined Radio (SDR) Kit worth INR 1.75 Lacs (approx.) purchased under the GUJCOST-Minor Research Project Grant of INR 3.7 Lacs received by Prof.N.M.Bankar (PI) and Prof. (Dr.) Kishor G. Maradia (Co-PI). The demonstration of the SDR Kit supplied by CoreEL Technologies, Bangalore is arranged at the E&C Dept. on Dt. 25/02/2020.***









*Industrial Visit:*





*An Industrial Visit is arranged at Sahajanand Laser Tech. Pvt. Ltd. (RF and Antenna section) Gandhinagar as on Dt.20/02/2020. There were 59 students from Semester-6 participated along with 02 faculty members of E&C Dept.*

## *Student's Achievements:*

### *List of EC Student's Project selected for start-up support under SSIP:*

| Sr.No. | Enroll No.   | Name               | Project Title  |
|--------|--------------|--------------------|--|
| 1      | 160130111119 | Zala Ravina        | Speaking System For Mute People                              |
|        | 160130111120 | Meenakshi Sharma   |  |
|        | 170133111008 | Shailesh N Kavad   |  |
| 2      | 170133111022 | govind s padhiyar  | Multi-object surveillance of defence network                 |
|        | 160130111052 | manali j rathod    |  |
|        | 160130111027 | binal r ghediya    |  |
| 3      | 160130111042 | Henil Kapadia      | Brain controlled wheel chair                                 |
|        | 160130111048 | Sakil Kureshi      |  |
|        | 160130111092 | Mohib Saraiya      |  |
| 4      | 160130111040 | Dhwani Kamdar      | Content display on a blank page using sixth sense technology |
|        |              |                    |  |
| 5      | 180133111005 | Ajmeri Tokir       | Advanced Life Jacket   |
|        |              |                    |  |
| 6      | 160130111080 | Patel vibhuti      | Driver Assistance System for Car                             |
|        | 160130111105 | Sharma Jigarkumar  |  |
|        | 160130111098 | Shah Kathan        |  |
| 7      | 160130111023 | Kush Dhuvad        | Autonomous Vehicle (DelBot)                                  |
|        | 160130111025 | Shabbir Dungriwala |  |
|        | 160130111081 | Umesh Patil        |  |
| 8      | 170133111043 | Vaniya Hitesh S    | Bionic Arm   |
|        | 170133111046 | Zala Abhishek M    |  |
|        | 170133111024 | Parmar Karan V     |  |
| 9      | 170133111032 | Prajapati Urmil    | Automatic Smart Trolley                                      |

*Participation in Smart Gujarat for New India Hackathon 2020:*



*Participation in Techfest-2020*



### *Open House Project Fair-2020:*







### ***Placement Statistics-2020:***

***Placement Camp was arranged at GTU, Chandkheda on 13 & 14 Feb, 2020. Many students from different colleges have participated in this Mega Placement drive and there were **28 students from E&C Dept.-GEC Gandhinagar** have been selected in this drive. **Apart from this drive, there were 18 students*****

***of E&C Dept. have already grab the job placement from the prestigious companies i.e. TCS, Capgemini, Tatvasoft etc.***







## **EC\_Placement\_2020:**

### **Placement Detail for Year: 2020 Pass out Batch-E&C Dept.**

| Sr No | Enrollement No | Name of student    | Sem | Name of company | Position offered                  |
|-------|----------------|--------------------|-----|-----------------|-----------------------------------|
| 1     | 160130111023   | KUSH DHUVAD        | 8   | TCS             | ASSISTANT SYSTEM ENGINEER TRAINEE |
| 2     | 160130111001   | PRIYANSHU RANI     | 8   | TCS             | ASSISTANT SYSTEM ENGINEER TRAINEE |
| 3     | 160130111052   | MANALI RATHOD      | 8   | TCS             | ASSISTANT SYSTEM ENGINEER TRAINEE |
| 4     | 160130111055   | JISHNU MEHTA       | 8   | TCS             | ASSISTANT SYSTEM ENGINEER TRAINEE |
| 5     | 160130111014   | MALAV BRAHMBHATT   | 8   | TCS             | ASSISTANT SYSTEM ENGINEER TRAINEE |
| 6     | 160130111025   | SHABBIR DUNGRIWALA | 8   | TCS             | ASSISTANT SYSTEM ENGINEER TRAINEE |
| 7     | 160130111081   | UMESH PATIL        | 8   | TCS             | ASSISTANT SYSTEM ENGINEER TRAINEE |
| 8     | 160130111102   | VATSAL SHAH        | 8   | TCS             | ASSISTANT SYSTEM ENGINEER TRAINEE |
| 9     | 160130111114   | BRINDA THAKKER     | 8   | CAPGEMINI       | ANALYST                           |
| 10    | 160130111097   | DWIJ SHAH          | 8   | CAPGEMINI       | ANALYST                           |
| 11    | 160130111037   | JYOTSANA           | 8   | CAPGEMINI       | ANALYST                           |
| 12    | 160130111092   | MOHIB SARAIYA      | 8   | CAPGEMINI       | ANALYST                           |
| 13    | 160130111047   | KRIKA SENGAL       | 8   | TATVASOFT       | TRAINEE                           |
| 14    | 160130111019   | KRUPALSINH CHAVDA  | 8   | TATVASOFT       | TRAINEE                           |
| 15    | 160130111036   | MEHULA JOSHI       | 8   | TATVASOFT       | TRAINEE                           |
| 16    | 160130111033   | SPARSH JAIN        | 8   | COLLAERA        | TECHNICAL RECRUITER               |
| 17    | 160130111076   | SHIVANI PATEL      | 8   | TATVASOFT       | TRAINEE                           |
| 18    | 160130111106   | RASHI SHARMA       | 8   | TATVASOFT       | TRAINEE                           |

## **Faculty Training / Publications:**

### **Faculty Achievements:**

- **Prof. S. S. Modasiya has Completed his Ph.D in Antenna Design in February 2020.**
- **Prof. S. S. Modasiya has published a patent “One and Two Shorted Outer Ring and Slot Loaded Log Periodic Microstrip Antenna for Navigational Applications” in Indian patent office in the field of Antenna Design.**



### EC-Faculty Training-Jan to June-2020:

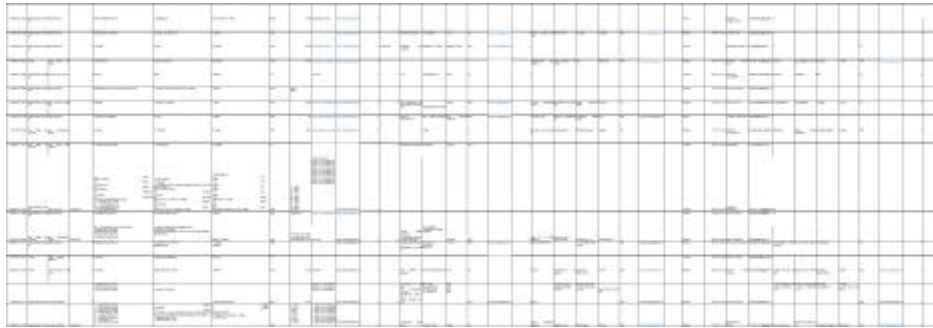
| Name of Faculty      | Training Title  | Duration                 | Venue                                    |
|----------------------|---|--------------------------|--|
| Prof. K. G. Maradia  | Promoting Excellence through Industry Institute Partnership                             | 17-02-2020 to 21-02-2020 | NITTTR,Bhopal                            |
| Prof. N. M. Banker   | Course Design In Context of NBA   | 20-01-2020 to 24-01-2020 | GMCA,Maninagar, Ahmedabad                |
| Prof. D. H. Patel    | Faculty Development for Teachers of Technical courses                                   | 27-01-2020 to 02-02-2020 | IITE,Gandhinagar                         |
| Prof. T. B. Sheth    | The Joy of Computing using Python   | 27-01-2020 to 17-04-2020 | NPTEL Online Course                      |
| Prof. S.S. Modasiya  | Antennas  | 27-01-2020 to 17-04-2020 | NPTEL Online Course                      |
| Prof. N. M. Banker   | NBA Accreditation and Teaching-Learning in Engineering (NATE)                           | 27-01-2020 to 17-04-2020 | NPTEL Online Course                      |
| Prof. D. H. Patel    | Antennas  | 27-01-2020 to 17-04-2020 | NPTEL Online Course                      |
| Prof. D. H. Patel    | NBA Accreditation and Teaching-Learning in Engineering (NATE)                           | 27-01-2020 to 17-04-2020 | NPTEL Online Course                      |
| Prof. N.K. Prajapati | Internet Of Things  | 27-01-2020 to 17-04-2020 | NPTEL Online Course                      |
| Prof. J. K. Bhavsar  | Introduction to research  | 24-02-2020 to 17-04-2020 | NPTEL Online Course                      |
| Prof. A. A. Vithlani | Introduction to research  | 24-02-2020 to 17-04-2020 | NPTEL Online Course                      |
| Prof. S. H. Patel    | Machine Learning, ML  | 24-02-2020 to 17-04-2020 | NPTEL Online Course                      |
| Prof. J. K. Bhavsar  | Satellite and Mobile Communication  | 24-02-2020 to 28-02-2020 | NITTTR,Bhopal                            |
| Prof. J. K. Bhavsar  | Parivartan: Changing Scenario in Science,Education and Psychology- A Combined Approach  | 24-05-2020 to 31-05-2020 | Government Science College, Veraval      |
| Prof. A. A. Vithlani | Parivartan: Changing Scenario in Science, Education and Psychology- A Combined Approach | 24-05-2020 to 31-05-2020 | Government Science College, Veraval      |
| Prof. T. B. Sheth    | Technological Inventions using Wireless Communication                                   | 18-05-2020 to 22-05-2020 | NITTTR, Chandigarh                       |
| Prof. T. B. Sheth    | Outcome based Curriculum Design   | 01-06-2020 to 05-06-2020 | NITTTR, Chandigarh                       |
| Prof. T. B. Sheth    | Real World Applications of Microcontrollers   | 15-06-2020 to 19-06-2020 | NITTTR, Chandigarh                       |
| Prof. S. S. Modasiya | International Tech Conclave   | 26-04-2020 to 30-04-2020 | BVM Engineering College                  |
| Prof. S. S. Modasiya | Antenna Design and Troubleshooting  | 3-06-2020 to 7-06-2020   | Pillai College of Engineering,New Panvel |
| Prof. A. J. Dave     | NBA Accreditation   | 11-06-2020               | GTU & InPods India Pvt. Ltd.             |
| Prof. S. S. Modasiya | MATLAB based Teaching-Learning in Mathematics, Science & Engineering                    | 18-05-2020 to 22-05-2020 | D Y Patil University                     |

### Expert Lectures delivered by faculty:

| Faculty Name         | Topic                          | Date       | Venue                   |
|----------------------|--------------------------------|------------|-------------------------|
| Prof. S. S. Modasiya | Advances in Electronics        | 22/01/2020 | LDRP-ITR                |
| Prof. S. S. Modasiya | Antenna Measurement Techniques | 1/2/2020   | BVM Engineering College |

*Self-learning / Content beyond Syllabus Details by E&C Dept., GEC-Gandhinagar<sup>3</sup>*

*Self-learning \_ Content beyond Syllabus Details by E&C Dept., GEC-Gandhinagar (Responses) - Form Responses 1*



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<sup>3</sup><https://docs.google.com/spreadsheets/d/1qsXkuev2oenvaoUYA8m6RIRv0EQmOJlexR1Gz6gkxXbA/edit#gid=640725072>

## Student Activities during Lock-down<sup>4</sup>

### Creative Corner of E&C Dept.

હા, હું એ જ ગુજરાત છું..

હા, હું એ જ ગુજરાત છું..

જેણે કચ્છની ધરાનાં કંપનો ધરાર ઝીલ્યા,  
જેણે મચ્છુના નિરને નિર્ભયતાથી નભાવ્યા,  
જેણે વાયુના વાવાઝોડાને પણ વિલીન કર્યા,  
જેણે હિપેટાઇટિસનેય હિંમતભેર હંફાવ્યા,  
જેણે પૂરનાં પાણીને પણ પાણીયા પકડાવ્યા,

હા, હું એ જ ગુજરાત છું..

બસ એ જ રીતે,  
કોરોના મહામારીને પણ મક્કમતાથી માત કરીશ..

હા, હું એ જ ગુજરાત છું..

એવાં અડીખમ ગુજરાતનાં સ્થાપના દીને સત  
સત નમન.. 🙏🙏🙏

પ્રો. નિલેશ એમ. બેંકર  
તા. ૦૧/૦૫/૨૦૨૦

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<sup>4</sup><https://docs.google.com/spreadsheets/d/1KCVGKID2nHNoB9mWhz5Eaik4jzEWfLpRINT1D-YF3E/edit#gid=0>

**कुछ बीति हुई ऑफिस की वो यादें , , ,**

**कुछ बीति हुई ऑफिस की वो यादें , , ,**

वो ऑफिस जाने की हिचकिचाहट,  
वो पहोचते ही दोस्तो की मुस्कुराहट,

वो मेज़ पे पड़े काम की सजावट,  
वो चाय की चुस्कियों के साथ जमावट,

वो समय सारणी के साथ सरसराहट,  
वो मीटिंग में बोस के साथ मीठी कड़वाहट,

वो कॉम्प्यूटर के की-बोर्ड की कट-कट,  
वो प्रिन्टर से निकलते पेपरो की रमझट,

वो आपातकालीन काम की अनचाही आहट,  
वो काम को अंजाम देने के बाद ली गई करवट,

वो शाम को पक्षियों की सुकूनवाली चहचहाट,  
वो घर वापसी पे फिर मिलने की झनझनाहट,

**कुछ बीति हुई ऑफिस की वो यादें , , ,**  
**जो लोकडाउन के बाद वापिस जी उठेंगी, , ,**

**उसी विश्वास के साथ,**  
**एक ऑफिस का लोकडाउन कर्मचारी,**

**प्रो, नीलेश एम बैकर**  
**दिनांक: ११/०५/२०२०**

### **Contact Us:**

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*Visit us on the web at <http://www.gecgh.cteguj.in/programs/detail/74>*