

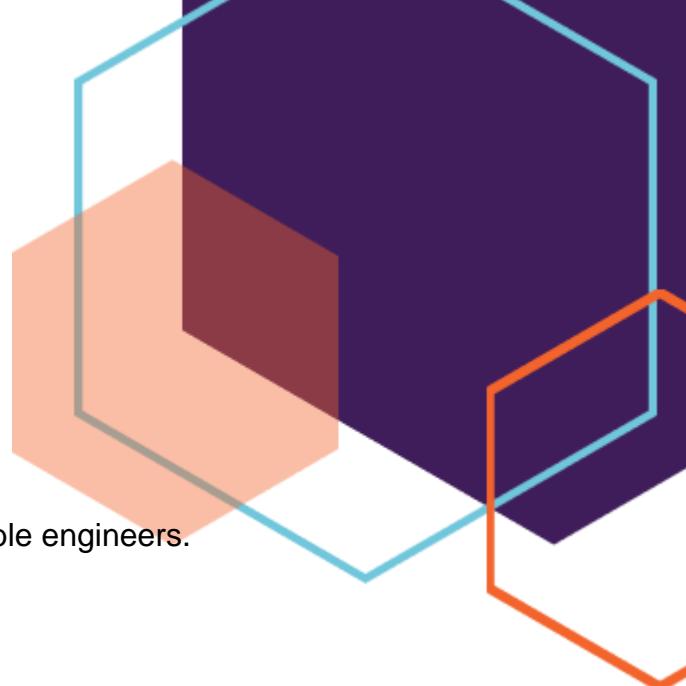
# EC GECR NEWSLETTER

Volume IV Issue I

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Electronics & Communication Engineering Department,  
Government Engineering College, Rajkot.





## **VISION OF THE INSTITUTE**

To bring out technically competent and socially responsible engineers.

## **MISSION OF THE INSTITUTE**

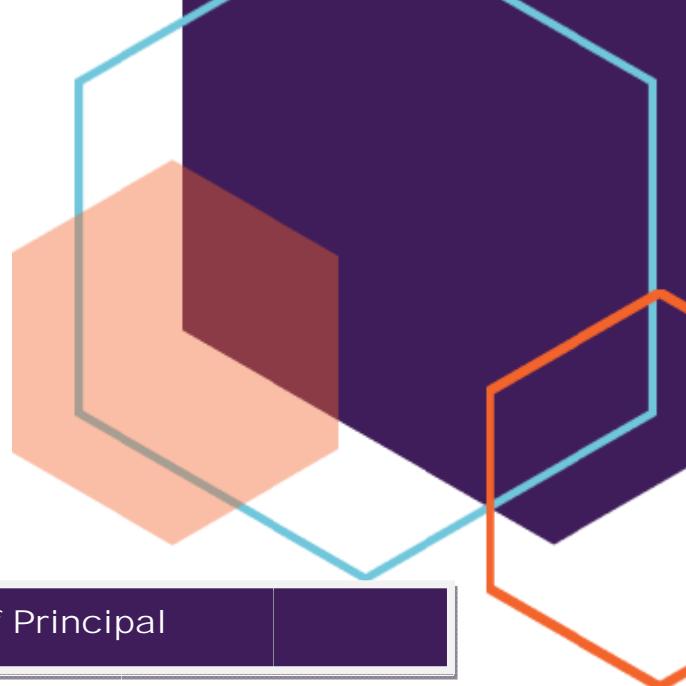
- To upgrade and enhance learning resources for delivering quality technical education.
  - To improve pedagogical skills and subject knowledge of the faculty members.
  - To fortify industry interaction for up gradation of the skills of students for meeting upcoming professional challenges.
  - To nurture innovative thinking and experimentation for addressing real life problems.
  - To take cognizance of social, ethical and environmental issues.
- 

## **VISION – EC DEPARTMENT**

To bring out technically competent, responsible, ethical and environment friendly Electronics & Communication engineers for the society and industries.

## **MISSION – EC DEPARTMENT**

- Developing technical competency in the students of electronics & communication engineering through hands on practice.
- Imparting quality technical education to the students through advanced teaching learning process.
- Creating vibrant atmosphere in the department to imbibe discipline, ethics and social responsibilities in students.
- Facilitating students to work on innovative projects related to electronics & communication engineering



## Message from the Desk of Principal

Dear Students and Faculties,

With a lot of positive feelings and the vibrations of good hope, I am glad to introduce the January- 2023 edition (Volume VII, Issue I) of "संवदध्वम्" bulletin. It showcases various activities of the institute, the departments and various cells of the college. We all are fortunate to have a very rich educational heritage in India. We believe that merely stuffing pieces of information into the brain is not our concern. We are here to educate and to enlighten human brains. We try to direct the bubbling energies into constructive and nation-building channels.

The events under 'Azadi Ka Amrit Mahotsav' and 'Har Ghar Tiranga' gave us the opportunity to tribute to the nation. Activities conducted to celebrate the 'Climate Change Week' reminded us of our responsibilities for mother earth and nature. 'Hackathon' provided a platform to unleash the problem solving skills and entrepreneurship talent of our youth. With the collective efforts of every staff member and students volunteers we could successfully host GTU central level Techfest-2022.

I value and appreciate the efforts of faculties of all the departments of our institute for organizing various activities like Expert talks, Seminars, Workshops to sustain such practices that show our capacity and intensity of work. I congratulate all the students and faculties who have achieved success in pertaining areas. As the new semester is about to begin, I wish all the best to dear students.

I also appreciate the endeavors put in by the editors and concerned facilitators of the newsletter for their work. Let us train the future brains of India for flying colors of success, in line with the vision of the institute. I believe that with a good team work, positive mindset and student centric approach of our faculties, our institute will outshine in the academics and in professional fraternity as well.

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

**Principal**

(Date: 01-01-2023)



### Message from the Desk of Head of Department

Dear Students and Faculties,

It gives me an immense pride and pleasure to release the January-2023 issue of Newsletter - Electronics &Communication Department, Government Engineering College – Rajkot.

The Department provides a very good ambience for learning and development as it Encompasses with a healthy blend of experienced professors with Ph.D. qualifications and young highly efficient staff members. The Laboratories of the department are well equipped with sophisticated equipment's to gain an in depth Practical knowledge of above mentioned subjects. The department emphasizes on the development of hands on skill of the students to complement their theoretical knowledge and as such the department organizes periodical expert sessions, industrial visit and workshops to train students with the latest technologies apart from the regular curriculum. The department has a vibrant learning environment where all the students and faculty members nurture the spirit of innovation, creativity and contribute effectively to the advancement of technology.

Newsletter is a very important tool to make all stack-holders aware about various activities done in the department. I am again very happy to see that lots of technical, curricular and extra-curricular activities are being carried out in the department. I congratulate all faculty members for arranging activities like expert talk for students, faculty development program and also to students who have participated in various events held at institute as well as outside institute. All this expert talks and competition helps students to enhance not only their technical knowledge but to develop various qualities like communication skill, creativity, leadership, team spirit also. As the newsletter team of the department have archived it again, I heartily congratulate and feel proud for their continuous efforts in collecting, designing and publishing whole matters for large number of stack holders.

**Prof. S. B. Parmar**

**Head – Electronics & Communication Engineering Dept.**

(Date: 01-01-2023)

## Content

❖ TECHNICAL VISIT AT BSNL, RAJKOT.	1
❖ TECHNICAL COMPETITIONS	2
• PRAKALP (PROJECT INNOVATION COMPETITION)	
• ABHIVYAKTI (TECHNICAL POSTER PRESENTATION)	
❖ A WEBINAR ON EVOLUTION AND IMPACT OF WIRELESS TECHNOLOGIES IN START-UPS	4
❖ TECHNICAL VISIT AT JYOTI CNC, RAJKOT	5
❖ AWARENESS PROGRAM FOR NPTEL/SWAYAM COURSES AND VIRTUAL LAB.	6
❖ PARTICIPATION IN AKHAND KAVYA MAHAKUBH	7
❖ PARTICIPATION IN CAMPUS TO CORPORATE MENTORING CAMP	8
❖ FACULTY AND STUDENT PARTICIPATION IN CLIMATE CHANGE YOUTH OUTREACH FORTNIGHT PROGRAM	9
❖ FACULTY AND STUDENT PARTICIPATION IN SSIP EVENTS	15
❖ FACULTY AND STUDENT PARTICIPATION IN HAR GHAR TIRANGA EVENTS	18
❖ FACULTY AND STUDENT PARTICIPATION IN STATE LEVEL CENTRAL GTU TECH-FEST 2022	21
❖ FACULTY AND STUDENT PARTICIPATION IN AZADI KA AMRIT MAHOTSAV HACKATHON 2022	23
❖ PLACEMENT DETAILS – EC GEGR 2023 BATCH	25
❖ TOP PLACEMENTS EC GEGR 2023 BATCH	26
❖ ACHIEVEMENTS	27
❖ FACULTY TRAINING DETAILS DURING JANUARY- DECEMBER, 2022	29
❖ FACULTY RESEARCH DETAILS DURING JANUARY- DECEMBER, 2022	30

## TECHNICAL VISIT AT BSNL, RAJKOT.

To fill the gap between academia & Industry and to introduce students with state-of-art technologies, a technical visit was organized by Electronics & Communication Engineering Department – GEC, Rajkot on 9/9/2022 at Kasturba Road Telephone Exchange, B.S.N.L., Rajkot. In their curriculum, the students are learning Wireless Communication, Optical Fiber Communication and Data Communication and Networking. During training the students have learned the latest concept of various subjects. The students have also visited Wired Telephone Exchange, BTS and other fiber optic network infrastructure. Total 16 students participated in the event.

**Prof. Ravi G. Mehta**, coordinated the technical visit. The students have learned the concepts, which are directly applicable in Wireless communication and data communication and networking industry.

The training will increase employability in this sector.



## TECHNICAL COMPETITIONS

- **PRAKALP**  
(PROJECT INNOVATION COMPETITION)
- **ABHIVYAKTI**  
(TECHNICAL POSTER PRESENTATION)

EC Department had organised Technical Competitions (Prakalp - Project Innovation competition and Abhivyakti - Technical Poster Presentation) today (30/9/2022). Total 10 project teams and 9 poster teams participated in the event. More than 80 students participated in the event. **Prof. Jay Pandya** and **Dr. Namrata Langhnoja** Coordinated the event.

**Jury Members** were invited from industries

1. **Mr. Kalpesh Gajera** from Aarohi Embedded Systems

2. **Mr. Chintan Mehta** from IOIPL IoT solutions.



## **Winners**

### **Prakalp - Project Innovation competition**

1. AI Based Door to Door Waste Collection Supervisor
2. Fully Automatic Hydroponic System

And

- Mechanism to Prevent Accident
3. Accident Alert System

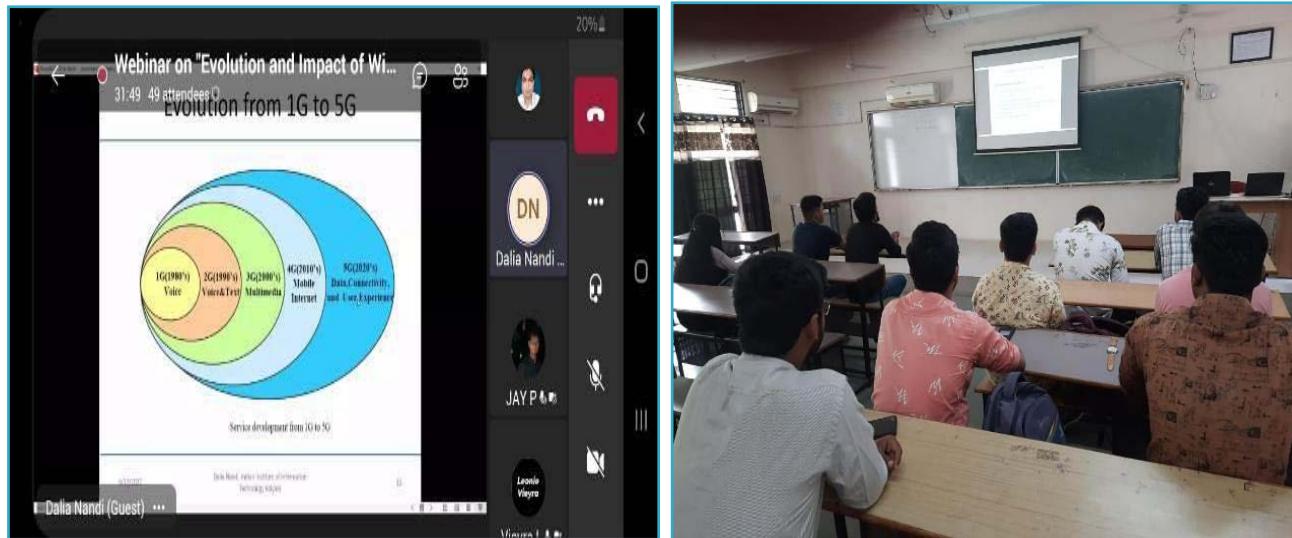
### **Abhivyakti - Technical Poster Presentation**

1. Temperature Sensitive Battery Management
2. Back to Analog Computing



# A WEBINAR ON EVOLUTION AND IMPACT OF WIRELESS TECHNOLOGIES IN START-UPS

Wireless Technologies are growth engines for new start-up. Every new start-up incorporates wireless technologies. To enlighten participants about this domain SSIP and Electronics & Communication Engineering department organized this webinar on 27th September, 2022. In this webinar various wireless technologies that can be used for betterment of start-up are explained by the expert Prof. Dalia Nandi. Principal of Institute Prof. (Dr.) K. G. Maradia also interacted and motivated the participants. Students have gathered the knowledge of the wireless technologies playing important role in growth of start-up. Total 108 participants attended the program. Prof. R.G. Mehta coordinated the event.

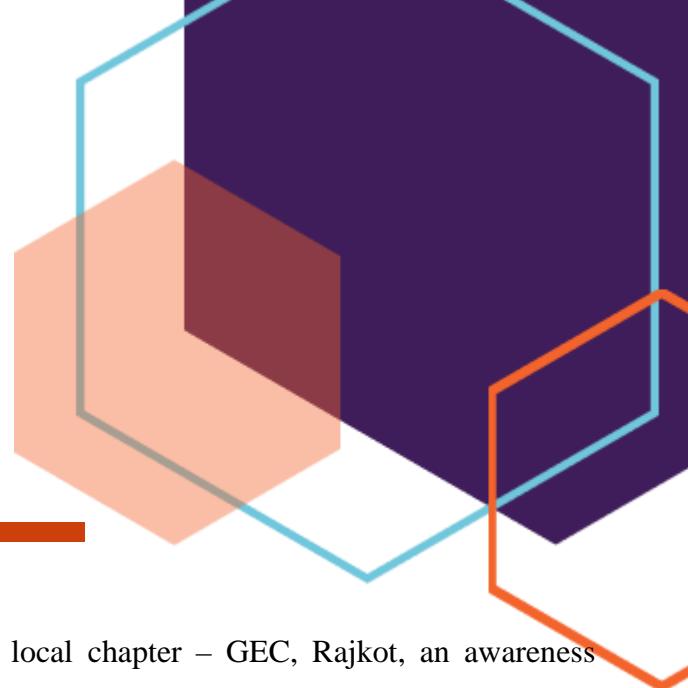


## TECHNICAL VISIT AT JYOTI CNC, RAJKOT

EC Department, Government Engineering College, Rajkot organized an industrial visit to Jyoti CNC, Rajkot. More than 40 5th semester students visited the company in coordination with **Dr. Dhaval Bhojani**. They visited different departments and working patterns of the company. The participants learned how industrial automation is helpful in today's era.



## AWARENESS PROGRAM FOR NPTEL/SWAYAM COURSES AND VIRTUAL LAB.



To aware faculties and students about NPTEL/Swayam course local chapter – GEC, Rajkot, an awareness seminar was organized on 6/7/22 and 18/7/22. During the sessions, demonstration of registration process of NPTEL/Swayam course registration was done. Also explanation about virtual lab facility developed by different IITs and its registration process was done.

Prof. Miral J Patel, Assistant Professor, EC dept., GEC Rajkot coordinated and conducted the sessions. More than 125 EC department Students and faculties attended the seminars.



## PARTICIPATION IN AKHAND KAVYA MAHAKUBH

Akhand Kavya Mahakubh (for continuous 24 hours) was organized at Saurashtra University Rajkot under Azadi ka Amrut Mahotsav during 31st July 2022 to 1st August, 2022. Students, faculties and Principal of GEC Rajkot have remained present in the event and felt privileged to be a part of the event. **Prof. Jay Pandya** and **Prof. J. K. Dadhaniya** coordinated the event.



## PARTICIPATION IN CAMPUS TO CORPORATE MENTORING CAMP

On 4th October, 2022, As a part of celebrating IEEE Day, Marwadi University organized a seminar series where experts from well known organization were invited. The event was exclusively planned for Engineering students and Young Professionals. Speakers from diverse fields were invited to share their knowledge on different domains: ML/AI , Big Data, Cloud Computing and Dev Ops, Software Development, Mobile Application Development and Security. The purpose of the event has been to inspire the young minds by providing them an opportunity to network one-on-one with the domain experts and share insights on what skill sets are required to be industry-ready in this competitive world of professionals. Total 26 EC – GECR students participated the event, where they gained chance to learn about new edge technologies. Students also participated the QA session and discussed their queries with the experts.

Following experts shared their expertise with participants.

1. **Dr. R Lenin Raja** – Aracion Technologies – UK & India.  
Topic: 5G & IOT
2. **Dr Jolly Dhar** – ISRO, Ahmedabad  
Topic: Atmanirbhar Bharat in RADAR instruments
3. **Mr Siddhrath Chaturvedi** – CMS IT Services Pvt. Ltd., Mumbai  
Topic: Oracle Cloud
4. **Ms Kajal Gosaliya** – Flipkart, Bengaluru  
Topic: Systems at Scale





## FACULTY AND STUDENT PARTICIPATION IN CLIMATE CHANGE YOUTH OUTREACH FORTNIGHT PROGRAM

Under Climate Change Youth Outreach Fortnight Programme – an initiative of Climate Change Department - Government of Gujarat, Government Engineering College, Rajkot arranged various competitions. Students from Electronics & Communication Engineering department actively participated in all the activities and also won the prizes in many of them. Faculties of department also contributed their services as coordinators in some of the events. Alumni students of department were invited as experts in I2C3 competition.

Sr. No.	Event	Date	Registered Students
1	Group Discussion	26/09/2022	54
2	Essay Writing Competition	27/09/2022	119
3	Slogan Making Competition	28/09/2022	54
4	Elocution Competition	29/09/2022	40
5	Innovative Idea for combating climate change competition	30/09/2022	72

### Group Discussion

On 26th September, 2022 Group discussion competition had been organized at Government Engineering College, Rajkot by Humanities and Science Department. Corporators of ward no 11, Ms Liluben Jadav, Shri Ranjitbhai Sagathia, Shri Vinubhai Sorathia and Ms Mayuriben Bhalada graced the occasion as special guests. There were 54 participants registered in the competition and 34 students remained present out of which 28 male and 6 female candidates. The topics of the Group Discussion were decided by the Government of Gujarat. The coordinators of this competition were Dr. Archana B. Dubey, Dr. Sonal J. Lakhani and Dr. T. K. Pathak. Dr Krishna D Daiya, Assistant Professor( English) Dharmendrasinhji Arts & Commerce College, Rajkot judged the competition along with Dr. D. D. Pandya Assistant Professor (Maths)& Ms. Divya N. Panchotia Assistant Professor (Physics).

### **Winner Students :**

- 1 Pradeep Haridas Pillai
- 2 Mandark Raviraj Raval
- 3 Jay Shaileshbhai Khambhayta



## Essay Writing competition

Essay writing competition was organized by department of Humanities and Science, Government Engineering College, Rajkot .The event was part of Climate change Youth Outreach fortnight programme organized by Climate Change Department, Department of Higher Education, DTE, Government of Gujarat. The event was organized on 27-9-2022 in Sarojini Naidu Auditorium. Prof. K.G.Maradia ,Principal, GEC, Rajkot patronized the event, Dr. Sanghamitra Bhatt coordinated it. The event was co-coordinated by Prof.Divya N Panchotia , Dr.Sunil Sonchhatra. The competition got overwhelming response in the form of 119 registrations. The event was judged by Prof.Chetas Oza , Dr.Sonal Lakhani, Dr. Nikhil Abhangi. The chief guest of the competition was Dr. Darshita Shah, Deputy Mayor, Rajkot.



## Slogan Making Competition

On 28th September, 2022 Slogan Makin competition had been organized at Government Engineering College, Rajkot by Electronics & Communication Engineering Department. Corporators of ward no 10, Ms Rajeshreeben Dodiya graced the occasion as special guests. Principal Dr K G Maradia motivated the audience with his inaugural speech

There were 54 participants registered in the competition and 42 students remained present out of which 31 male and 11 female candidates. The topics of the Slogan Making were decided by the Government of Gujarat. The coordinators of this competition were Prof. D. R. Keraliya, Prof. R.P Sanghani and Prof. B.H.Nagpara. Ms. H.M. Mokhariya, Range Forest Officer (RFO), Forest Department, Rajkot-West judged the competition along with Ms. Krishnaben Chauhan Forest Guard, Rajkot-North.

### **Winner Students:**

- 1 Shrishti Goswami
- 2 Chavda Paras Manjibhai
- 3 Saurabh Gupta



## Elocution Competition

The General Department of the Government Engineering College Rajkot's organized an Elocution Competition on 29th of September. 40 Students registered for the program and 20 out of that participated in it. The program was held at Sarojini Naidu Auditorium of GEC Rajkot. The main aim of the programme was to aware youth and the common people about various issues of climate. In the beginning introductory speech was given by Prof. P C Vasani and Vote of thanks was given by the head of General Department.



The invited guests were Dr. Darshita Shah (Dept. Mayor) Shri Nileshbhai Zalu (Corporator) Shri Manishbhai Radia (Corporator) Shri Jayminbhai Thakkar (Corporator) Shri Rajenbhai Sundhav. After the formal welcoming of the guests students delivered their speeches on following topics.

- Role of different sections (homemaker, industry, senior citizen etc.) of society in
- Combating Climate Change
- Respect Food
- Lifestyle for Environment
- Save Soil
- Panchamrit Goals

#### **Winner Students:**

- 1 Rasika Shrivastav
- 2 Manoj Agrawat
- 3 Jahnvi Bhatt



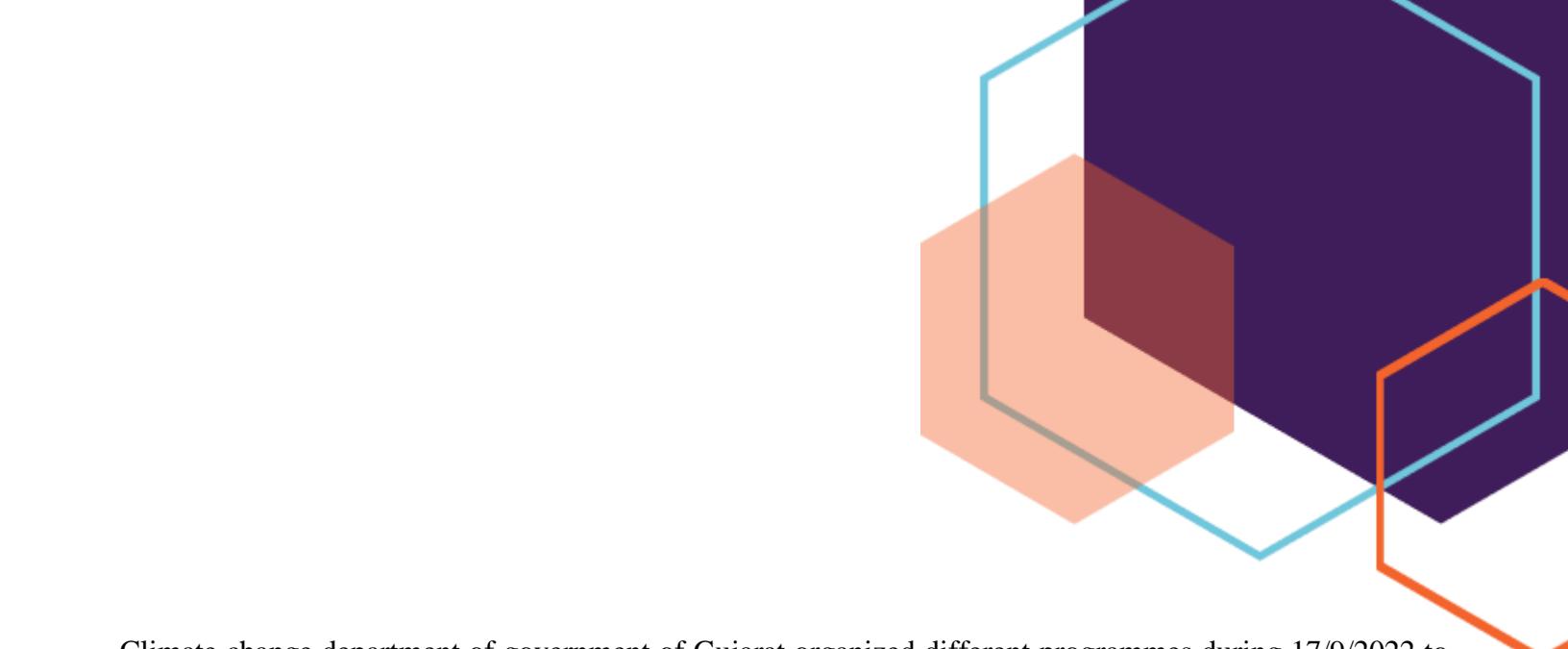
## I2C3 Competition

An Event Was organized On Topic “Innovative Idea for combating climate change competition” At Government Engineering College Rajkot on 30-09-2022 under climate change youth outreach fortnight program.

The Purpose of this event was to aware the students about the current climate crisis and motivate them by participating in the event by sharing of their valuable innovative idea based on the different topics like Water conservation, Pollution , Renewable energy, Climate action , Mitigation etc. The Outcome expected is to make students aware about the climate change crisis. The Target Audience for the event was students of Government Engineering College Rajkot. Approx. 300+ students of Government Engineering College Rajkot.

Dr. D. J. Pandya and Dr. H. G. Sonkusare were invited as experts for the event. Prof. V.Rajyaguru, Prof. R. L. Patel, Pro. H. N. Dalal and Prof. H. R. Patel coordinated the event.





Climate change department of government of Gujarat organized different programmes during 17/9/2022 to 30/9/2022 under the head of Climate Change Youth Outreach Fortnight Programme to Celebrate 17th September, the foundation day of the Climate Change Department. Students and staff members of Government Engineering College, Rajkot participated in the events actively.

<b>Event Date</b>	<b>Event</b>	<b>Event Coordinator</b>
<b>17/9/2022</b>	Panchamrit Yuva Jagruti Pakhvadiya on Climate Change	Prof. Jay Pandya
<b>18/9/2022</b>	Seminar on Panchamrit for Climate Change	Prof. Mahesh D. Titiya
<b>19/9/2022</b>	Seminar on Water Management, Climate change department	Prof. Krunali Savalia
<b>20/9/2022</b>	Seminar on Climate Action Startup	Prof. Shilpa Kaila
<b>21/9/2022</b>	Seminar on Climate Finance	Prof. Pratiksha Balai
<b>22/9/2022</b>	Seminar on Energy Conservation Building Code and Green Building	Prof. M K Khunti
<b>23/9/2022 and 24/9/2022</b>	NATIONAL CONFERENCE OF MINISTERS OF ENVIRONMENT, FOREST & CLIMATE CHANGE	Prof. Shyam Kotecha
<b>25/9/2022</b>	Seminar Report on Electric Mobility, Climate change Department	Prof. Nawaz A Kureshi
<b>26/9/2022</b>	SEMINAR ON "SUSTAINABLE DEVELOPMENT GOALS AND CLIMATE CHANGE"	Prof. Prof. L M Rola
<b>27/9/2022</b>	Seminar on Renewable energy	Prof. Kajal Nandaniya
<b>28/9/2022</b>	WORKSHOP ON COMBATING DESERTIFICATION AND DESERT ECONOMY	Dr. Rahul D. Mehta

## FACULTY AND STUDENT PARTICIPATION IN SSIP EVENTS

### SSIP Student Sensitization EVENT SSIP-2.0

A Seminar Was Arranged On Topic “SSIP Student Sensitization EVENT SSIP-2.0” At Government Engineering College Rajkot on 28th September, 2022 under Student Startup Research and innovation festival. The Purpose was to aware the students in mentioned topics by providing knowledge about SSIP 2.0 policy. The Outcome expected from participants was to have knowledge of SSIP, Explanation of Technical Terms related to SSIP, to motivate students about Taking benefits of SSIP.

The Target Audience for the seminar was first year students of Government Engineering College Rajkot.

Prof. Bhagirath Bhatt (EC Department AVPTI, Rajkot) explained the participants about SSIP 2.0, its vision, significance of SSIP 2.0, financial support that can be received by the students and comparison between SSIP 1.0 and SSIP 2.0. more than 300 students participated in the seminar. Prof. D. K. Chotaliya, Prof. P. R. Pandya and Prof. R. J. Trivedi coordinated the event. Dy. Mayor Dr. Darshitaben Shah inaugurated the event.



## Start Up Boot Camps

To spread awareness about SSIP 2.0 to students of school and ITI, Start Up Boot Camps were organized under SSIP 2.0. On 4th October, 2022, the boot camps were organized at 1. Vidyaniketan School, Rajkot and 2. ITI Rajkot. Prof. D. R. Bhojani conducted the seminar to aware students about SSIP 2.0 and motivated them to start their start ups by innovative thinking. Total 114 students participated in the event. Prof. D. P. Pipalava, Prof. J. K. Dadhaniya and Prof. K. D. Chaudhari coordinated the event.



## SSIP ADDA SSIP-2.0

A Seminar Was Arranged On Topic “SSIP ADDA SSIP-2.0” at Government Engineering College Rajkot on Date:06th October, 2022 under Student Startup Research and innovation festival. The Purpose was to aware the students in mentioned topics by providing knowledge about SSIP 2.0 policy. The Outcome expected from participants was to have knowledge of SSIP, Explanation of Technical Terms related to SSIP, to motivate students about Taking benefits of SSIP. The Target Audience for the seminar was first year students of Government Engineering College Rajkot. Aproximate 300 students participated in the event. Mr. Vishal Sarvaiya shared his expertise with the participants. Prof. D. K. Chotaliya, Dr. P. M. Pithdiya Dr. R. K. Shukla and Prof. S. N. Chavda coordinated the event.



## Current Student Startup Yatra SSIP 2.0

A Seminar Was Arranged On Topic “Current Student Startup Yatra EVENT SSIP-2.0” At Government Engineering College Rajkot on Date 07<sup>th</sup> October, 2022 under Student Startup Research and innovation festival. The Purpose was to share the Starup Yatra(journey) of GEC Rajkot students and to motivate current students to actively participate in SSIP 2.0 policy. During the seminar the start up journey of a company – E-Welt was shared by the owner **Mr.Raj Kumarkhaniya** and **Mr. Jaydip Chavda** (Alumni – EC GECR). The company was established with the support of SSIP 1.0 that time. Prof. R. L. Patel, Prof. P. R. Raval and Prof. R. J. Trivedi Coordinated the event.



## Startup Yatra

A Startup yatra was organized at Government Engineering College, Rajkot on date 11/10/2022 under Student Startup Research and Innovation Festival. In this event, students of various departments did ‘yatra’ in the campus of the college and did a discussion on role of various disciplines on any innovative project. To motivate and encourage students, faculties from various departments as well as from various institutes attended the event. The students had a healthy discussion on various topics like startup, innovation, inter discipline contribution, early stage entrepreneurship.

The event was co ordinate by Prof. P. M. Pithadia, Prof. P. R. Pandya and Prof. P. N. Balai. In addition to this, Prof. C. S. Thaker, (Prof and Head, Computer Engg Dept, L.D. College of Engineering and Technology) also participated in the event. Around 80 students from various departments participated in the event.



## FACULTY AND STUDENT PARTICIPATION IN HAR GHAR TIRANGA EVENTS

‘Har Ghar Tiranga’ is a campaign under the aegis of Azadi Ka Amrit Mahotsav to encourage people to bring the Tiranga home and to hoist it to mark the 75th year of India’s independence. Invoking a sense of patriotism in hearts of people and raising awareness of the Indian National Flag.

As per the directives of Education Department, Government of Gujarat, Government Engineering College-Rajkot, organized various events under the “Har Ghar Tiranga” program as a part of Celebration of 75 years of Independence – “AZADI KA AMRUT MAHOTSAV” from 28th July 2022 to 15th August 2022.

Students and Faculties of Electronics & Communication Engineering Department actively participated / coordinated various events under the campaign.

Sr. No.	Event Name	Date of Event	No. of Participants
1	Essay Writing Competition	28-07-2022	25
2	Oath for Har Ghar Tiranga	29-07-2022	603
3	Tiranga Yatra at Campus	05-08-2022	533
4	National Flag Making Competition	06-08-2022	20
5	Development of National Flag Competition	06-08-2022	14
6	Singing Competition on Patriotic Songs	06-08-2022	28
7	Solo act play (Drama on Theme of Patriotism)	06-08-2022	26
8	District Level Vanmahotsav	12-08-2022	250
9	Tiranga Yatra up to Kankot Village	12-08-2022	545
10	Independence day celebration	15-08-2022	337

## Photos of EC Department Participation in Har Ghar Tiranga Events



Essay Competition



Oath for Har Ghar Tiranga



Tiranga Yatra



Drawing Competition



National Flag Making Competition



Singing Competition



Solo Act Play Competition



District Level Vanmahotsav



Tiranga Yatra



75th Independence Day

# FACULTY AND STUDENT PARTICIPATION IN STATE LEVEL CENTRAL GTU TECH-FEST 2022

Government Engineering College, Rajkot hosted the GTU Central Tech-Fest'22 for Mechanical Engineering Activities, on the 11<sup>th</sup> and 12<sup>th</sup> of October 2022. The event covered 4 technical and 1 non-technical events creating scope for students to flourish their technical and managerial skills.

## Main Attractions of the TechFest were:

- Aqualift
- Robotics
- Cadengers
- Junkyard
- Techpreneur

Students and Faculties of Electronics & Communication Engineering Department actively participated / coordinated various events during the Techfest



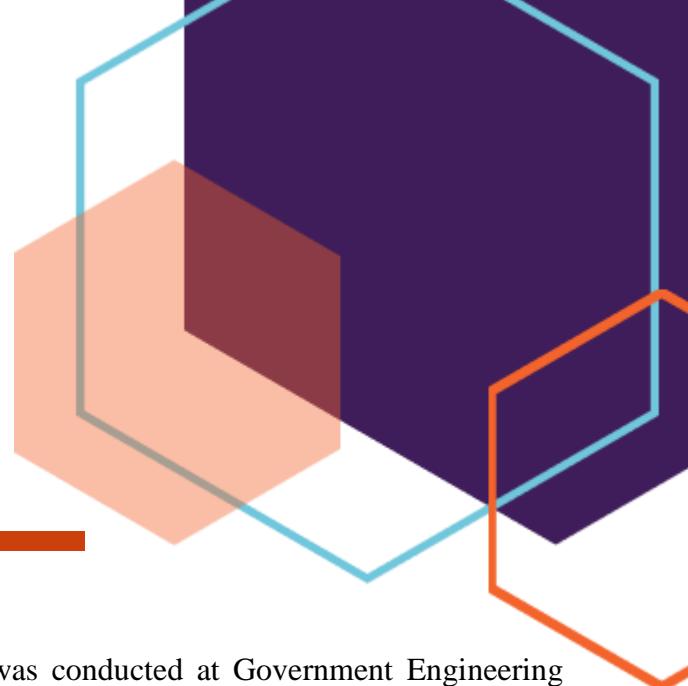


**'ટેકફેસ્ટ ઇવેન્ટ નહીં, કૌશલ્યની ઉજવણીનો તહેવાર છે' : ડે.કમિ.**

GTU ના ટેકફેસ્ટ GEC નો પ્રારંભ : ૬૧૨ વિદ્યાર્થી લઈ રહા છે ભાગ

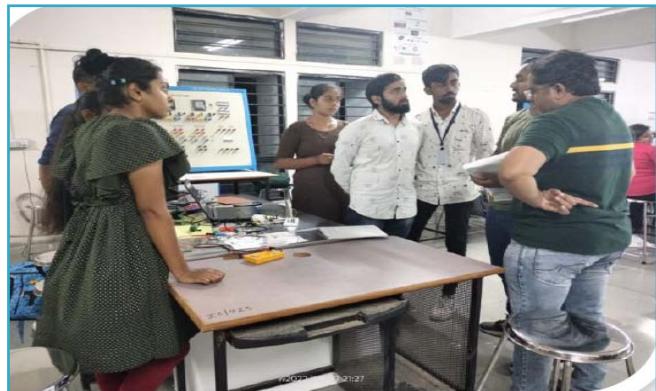
ગુજરાત, નાની : તારીખ ૧૫ અને ૧૬ એપ્રિલ ૨૦૨૪ રેલ્લી કાર્યક્રમના કાર્યાલય કોચનિયાના માટે આપેલું હિન્દુનગર માર્ગ પરિયોજનાની આંદોલના અભિવૃત્તિ હતી. એની પ્રારંભ કરતું હતું કોચનિયાની ટેકફેસ્ટ કલિનિક કાર્યક્રમની પ્રારંભ પાતે ઉજવાઈ રહ્યું છે. આ અનુસારે ટેકફેસ્ટ એટ અભિવૃત્તિ અન્દરથી હતું કોચનિયાની ઉજવણીનો અનુભૂતિક પ્રારંભિત કર્યા રહ્યું હતું કે આજે મુનિસિપલ કોરાદેશનાની રૂપી ધરાય રહ્યા નવા અન્દર્યે જીવિક કમિશનર અધિકારી કુપાડું જીવિક કે ટેકફેસ્ટ એ માત્ર હિન્દુનગર નહીં વાત છે. તમણે પોતાના દ્વારા હેઠળને શરૂ કર્યાની

# FACULTY AND STUDENT PARTICIPATION IN AZADI KA AMRIT MAHOTSAV HACKATHON 2022



A State-level “Azadi ka Amrit Mahotsav Hackathon 2022” was conducted at Government Engineering College, Rajkot under the leadership of Principal Dr. K. G. Maradia. The event was chaired by Shree Varun Baranwala, Managing Director, PGVCL, Rajkot, the event was graced by scintillating galaxy of guests - Prof. D. B. Vagdiya, principal, AVPTI, Prof. Hemali Rupareliya, in - charge principal , Government Polytechnic, Rajkot and Shree Vinubhai Sorathya, Cooperator, ward number-11, Rajkot.

Along with all other departments, Students and Faculties of Electronics & Communication Engineering Department actively participated / coordinated various events during the Hackathon. Two labs of the department(B002 and B005) were set as the event venue where all necessary technical requirements were provided to participants.





**રાજકોટમાં હેકાથોનના રીજિયોનલ રાઉન્ડમાં ૭૫૦ પ્રોફ્લેસનું નિરાકરણ જમીન વિના ખેતી, આગ લાગ્યાની કશ્યર સ્ટેશને જાણ કરતી મોબાઈલ એપ બનાવાઈ**

**સભસ્ટેશન બંધ થયાની એપ્લિકેશનની જાણ, ઈલેક્ટ્રોલાલ વાહનો માટે વાયર વિનાનું ચાર્ચર્ડ**

સાધોણે!

આગામી શાન્દુન મધ્યાસપ અનુભૂતિના રાજકોટની સરકારી ઈન્જિનીયરિંગ કોલેજમાં હેકાથોન-૨૦૨૨ની રીજિયોનલ રાઉન્ડ યોજાતા તેમાં વિદ્યાર્થીનો, સંશોધકોનો અભિગ્યાત્વ અથડા ૭૫૦ પ્રોફ્લેસનાના નિરાકરણ માર્ફતી વેલેન અપાણ હતો. જેમાં જીબન વિના ખેતી અને આગ લાગ્યાની બંધ થયાની એપ્લિકેશન જાણ કરું જોઈ એપ સહિતના અવલય પોછેકા જોવા મળ્યું હતું.

ખૂબને ખોનીલાયક જમીન, પાણીની અછત અને આપનાખિત જાતુંની અગ્રદંનના પરિસ્થિતી જમીન વિના બેઠી કઈ રીતે કરી શકાય તે મણે પાણી અને અન્ય પોપક તન્દોના પ્રયારી નિષ્પત્ત છોડ સુધી પહોંચાડી માત્રાનો જરૂરિયાન વિના

ખેતી કરી શકાય તેચે પોછેકા રૂજુ કર્યો. ઉપરોક્ત ઈલેક્ટ્રોલાલ વીપે વીજ પોલ જાયાં અન્ય કશ્યર પિંબાદન સોલેટમાણાની મોબાઈલ એપ્લિકેશન બાનાવી છે. જેનાથી આગ લાગે નાચે એક બાટન દાખાવાથી ને ઈમરજન્સી કોંસ અને તે કુચાણને સેટો સોલેટમ અન્યથાઈ છે. ઉપરોક્ત ઈલેક્ટ્રોલાલ વાહન માટે વાયરલેસ ચાર્ચર્ડ બનાવ્યું છે.

## PLACEMENT DETAILS – EC GECR 2023 BATCH

Sr. No.	Full Name	Name of Company	Designation	Annual Salary (in Lakh)
1	Ayushi Yadav	Meditab Softwares	Programmer Analyst Trainee	6
2	Rishav Sharma	Weboccult	Web Designer	4
3	Rohit Pathak	Weboccult	Web Designer	4
4	Ritik Singh	Weboccult	Backend Developer	4
5	Vijay Vaja	Acty System	Project Trainee	3
6	Sayja Dharmi	e-Infochips	ASIC Trainee	4
7	Chirag Paresh Dave	e-Infochips	Hardware	4
8	Subham Jha	e-Infochips	ASIC Trainee	4
9	Yashvi Tada	e-Infochips	ASIC Trainee	4
10	Savan Mandodara	e-Infochips	ASIC Trainee	4
11	Lakshit Gunvantbhai Kubavat	Volansys Technologies	Trainee Engineer	4
12	Vaibhav Mahendrabhai Malvi	Cybercom creation	Software Engg.	3
13	Jitendra Lirabhai Bhumbhariya	Embicon Tech-Hub	Automation Engineer	1
14	Prince Pankajbhai Raichura	e-Infochips	Engineer-ASIC	4
15	Rahul Vinod Yadav	Satva Solutions	Software Engg.	3
16	Pragati Manish Joshi	Volansys Technologies	Trainee Engineer	3

## TOP PLACEMENTS EC GECR 2023 BATCH



Savan Mandora



Yashvi Tada



Dharmi Sayja



Shubham Jha



Chirag Dave

**eInfochip with package 4 LPA**

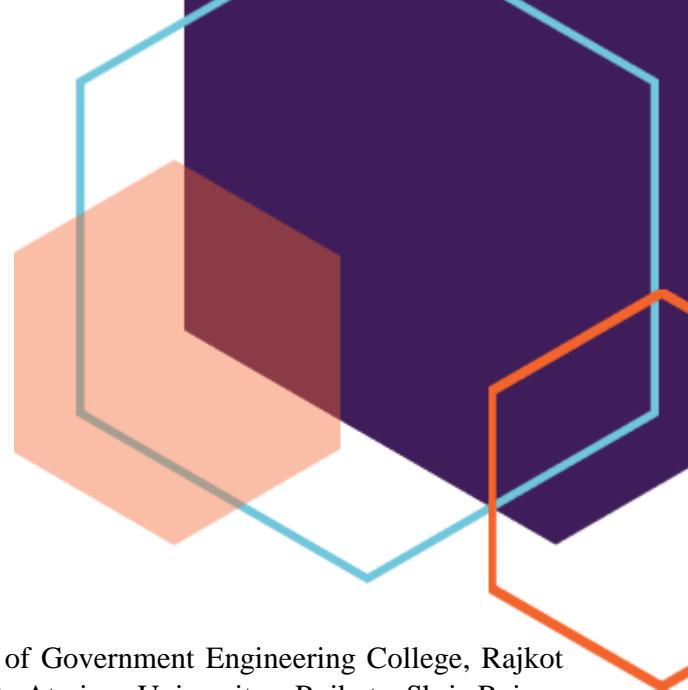
## ACHIEVEMENTS

- NCC cadet Ritu Upadhyay from EC Engineering was selected as “The Best Cadet- Naval” at state level and received all India sixth rank during the six month training and evaluation program. As a part of Youth Exchange Program, she was selected to participate a twelve day culture exchange program at Bangladesh. She was received opportunity to meet and learn from Bangladesh force chief officers. She was also invited to visit PM office there.



- NCC cadet Nilesh Dinesh Sharma from EC Engineering, GEC Rajkot stood first in IGC competition for RDC and was selected as “The Second Best Cadet- Naval” at state level.
- Student of Electronics & Communication Engineering Lachchhu Aron was selected in state level football team and participated in West Zone Inter University Football Tournament 2022-23. He was also selected to play at national level.





- Under leadership of the Principal, Students and faculties of Government Engineering College, Rajkot participated in New India for Young India event at Atmiya University, Rajkot. Shri Rajeev Chandrashekhar - Honorable Minister of State for Skill Development and Entrepreneurship and Electronics and Information Technology Government of India interacted with GECR students and faculties and motivated them. He appreciated the projects presented by the participants.
- Siddhant Dubey and Ritik Mourya, EC Engineering Department GEC Rajkot represented GTU during West Zone Inter University Handball, held during 27th - 30th December, 2022.



- During the GTU Central Tech-fest Valedictory Function at GTU, Government Engineering College Rajkot was appreciated for the excellent conduction of the techfest for Mechanical Engineering events. Dr. H.I.Joshi and winners from the institute remained present at the function.



# FACULTY TRAINING DETAILS DURING JANUARY- DECEMBER, 2022

Sr. No.	Name of Faculty	Department	Name of Training
1	Prof. J. S. Pandya	E. C. Engineering	LMS_Moodle Essential
2	Prof. J. S. Pandya	E. C. Engineering	Computer Aided Applied Single Objective Optimization
3	Prof. R. D. Mehta	E. C. Engineering	Introduction to Machine Learning
4	Prof. R. D. Mehta	E. C. Engineering	LMS_Moodle Essential
5	Prof. R. G. Mehta	E. C. Engineering	LMS_Moodle Essential
6	Prof. R. P. Sandhani	E. C. Engineering	LMS_Moodle Essential
7	Prof. N. R. Agrawat	E. C. Engineering	Computer Aided Applied Single Objective Optimization
8	Prof. P. A. Lathiya	E. C. Engineering	Computer Aided Applied Single Objective Optimization
9	Prof. B. H. Nagpara	E. C. Engineering	Computer Aided Applied Single Objective Optimization
10	Prof. N. V. Langhnoja	E. C. Engineering	Stress Management
11	Prof. J. S. Sureja	E. C. Engineering	The Joy of Computing using Python
12	Prof. D. R. Keraliya	E. C. Engineering	LMS_Moodle Essential

## FACULTY RESEARCH DETAILS DURING JANUARY- DECEMBER, 2022

Sr. No.	Name of Faculty	Paper Title	Name of Conference/Journal
1	Prof. N. V. Langhnoja	Design and Analysis of Microstrip Antenna for Operation in GSM frequency Range	International Conerence of Antenna Test & Measurement Society-2022
2	Prof. H. P. Koringa	A Systematic Analysis of CMR Segmentation Using Deep Learning	International Journal of Next Generation Computing
3	Prof. H. P. Koringa	Left Ventricle Segmentation Using Bidirectional Convolution Dense Unet	Journal of Integrated Science and Technology-2023
4	Prof. M.J. Patel	Road Network Extraction Methods from Remote Sensing Images:A Review	International Journal of Next Generation and Computing, Vol 13, Issue 2, July-2022
5	Prof. M.J. Patel	A Systematic Analysis on Road Network Extraction System From Remote Sensing Images by Convolution Neural Network	Conference Proceeding of International Conference on Emerging Trends & Contemporary Practices -2022
6	Prof. M.J. Patel	Deep Learning Enabled road Segmentation and edge centerline extraction from High -Resolution remote Sensing Images	International Journal of Image and Graphics

## **Advisors:**

**Dr. K. G. Maradia**  
**Principal,**  
**Govt. Engg. College,**  
**Rajkot.**

**Prof.S.B.Parmar**  
**Head of Department - EC**  
**Govt. Engg. College,**  
**Rajkot.**

## **Newsletter Team – EC Department**

**Prof. Jay Pandya**

**Prof. Niranjan Agravat**



**Electronics & Communication Engineering Department**  
**Government Engineering College, Rajkot.**