

EC GECR Newsletter

January-2021
Volume 2 Issue 1

Electronics & Communication Department,
Government Engineering College, Rajkot.

Vision

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

Mission

- 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.

From the desk of Principal



Dear Students and faculties

Congratulations to the faculties and students of Electronics & Communication Engineering for keeping department vibrant even during hard time of pandemic situation and proving that education does not stop and it does not have any boundary. Congratulations to all of you for successfully completing last semester and attending online examinations. We all are safe because we are obediently following norms of social distancing as a precautionary measure to prevent spread of corona virus. We have changed our life style and followed new etiquettes. There are many emerging areas coming up in Electronics & Communication Engineering. It is not possible to cover all emerging areas in the curriculum hence students are requested to attend MOOC (Massive Open Online Courses) and other skill development programmes to bridge the gap of curriculum and industry requirements. Depending on interest of the student, he or she has to select any one topic and study it in depth but for selection of the topic, it is necessary to get introductory knowledge of technological advancements. Student should select such topics to deliver seminar and discuss with each other and faculties. There are MOOC (Massive Open Online Courses) are available for such advance topics. Students should attend at least one course in every semester.

EC Department Training and Placement coordinator is taking utmost care for the placement of the students in liaison with Institute TPO. Placement is good even during COVID-19 situation. We need more support from the students to increase placement. I congratulate all selected students and best wishes to remaining students for placement opportunities.

Continued

Our institute is preparing for getting accreditation from National Board of Accreditation (NBA). NBA focuses on outcome based education (OBE). Outcome based education is student centric. In OBE, at the end of educational experience, students are expected to have outcomes. Every course has course outcomes (COs). At the time of learning course, you must be aware of course outcomes. At the end of graduation, every student will achieve programme outcomes (POs). There are Programme Specific Outcomes (PSOs) defined specifically for every department. It describes what students are expected to be able to do after completion of graduation. Program educational objectives (PEOs) are broad statements that describe what graduates are expected to attain within few years of graduation. All the departments have defined our PEOs. PEOs describe what you will be after five years of your graduation. Vision of our institute and department, Mission of our institute and department, PO, PSO and PEO of our department are available on our website, MOODLE as well as displayed in laboratory, lobbies and classroom. All the students must be familiar with this terminology of outcome based education. Engineers must have moral values like honesty, hard and smart work, impartiality, fairness, equity, co-operation, respect for others, compassion, forgiveness mentioned in our Vedas. Students must have five cognitive skills Conscientiousness, Perseverance, Innovativeness, taking Initiatives and Problem Solving. We have grant under student start up and innovation policy (SSIP). Take maximum benefit of it for your innovative projects. Find out real life challenges present in the society and industries and work for the solution. Come up with best idea and submit proposal to get funding from SSIP grant.

Wish you best of luck,

(Dr. C.H. Vithalani)

Date: 01-01-2021

From the desk of Head of Department



Dear Students and faculties,

To meet the growing demand of electronics and communication engineers in the government as well as private sectors, the department is trying hard to produce trained and competent engineers who can take up the challenges of the real world. We provide opportunity to students to explore their interest in various specialized fields of electronics and communication. We also make efforts for students to participate in various technical and sports events/competitions.

This newsletter is an attempt to highlight the achievements of the department, faculties and students. It is indeed my great pleasure that our department is publishing newsletter touching every aspect of activities and events held in academic year 2020. The newsletter aims to bring about various proceedings, functions and happenings in the department. In spite of the space constraint we have showcased the best and look forward to have more in near future. I also congratulate the entire newsletter team for producing newsletter

(Prof.S.B.Parmar)

Date: 01-01-2021

ALMA CONNECT -2020

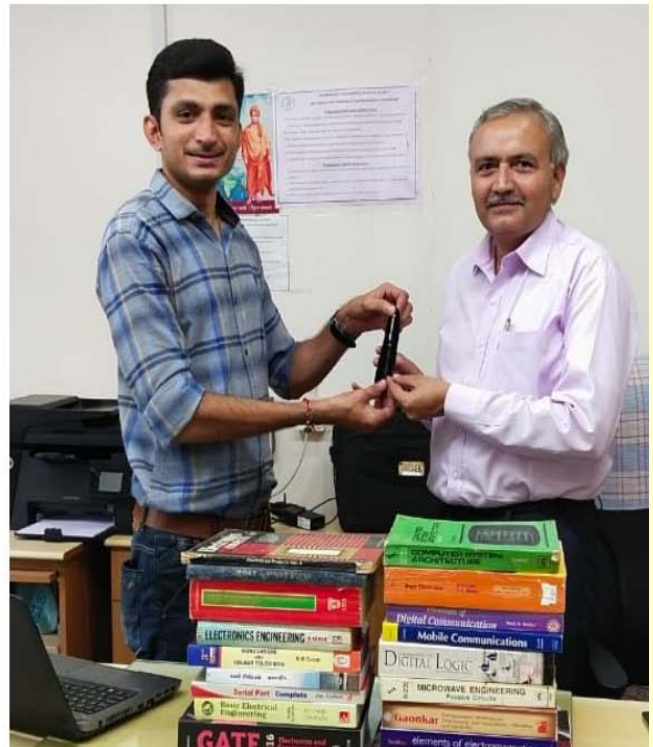
The Alumni Association of GEC, Rajkot(AAG), an initiative driven association, during COVID-19 hit situation finds ways of constantly motivating students and making them industry ready by organizing panel discussion and expert talks on various topics of importance. Starting from May 9, 2020, with the invitation to registration of the experts to contribute towards knowledge enhancement, AAG launched - ALMA CONNECT-2020, a platform that brought together industrialists, teachers, alumni, influencers and job seekers together, sharing their experiences and knowledge.

Following talks and panel discussion were organized in the span of 3 months:

Sr. No.	Expert Name	Topic of Talk	Date
1	Naimish Vadodariya	Life after Lock down(Tech v/s Non Tech Field)	10/5/20
2	Umang Sangani	Art and Engineering Convergence in Digital Times.	10/5/2020
3	Vishal Virani	Beyond corona Virus: Path to the Next normal	12/5/20
4	Jeet Manek	Few Things to keep in Mind before getting a Bachelor's Degree	15/5/2020
5	Nirali Dodiya	Importance of Digital Forensics and Evidence in Cyber Crime Investigation	16/5/2020
6	Dharmesh Kavaia	Industrial IoT, Industrial Automation, IOT	17/5/2020
7	Panel Discussion	Get Equipped for future Jobs	17/5/2020
8	Shreya Doshi	Machine Learning and Future of it	18/5/2020
9	Kuman Kothiya	Python Development and Automation	23/5/20
10	Nikhil Jha	How to Find What you Want to in your Life	30/5/2020
11	Prof. Chirag Suryakant Thaker		
12	Rinu Raju	Human Resources – Adapting Oneself to the Changing Market Dynamics	31/5/2020
13	Arjun Kava	Why should Anyone Hire you?	31/5/2020
14	Dr. Ketan Kotecha	AI for All	6/6/2020
15	Panel Discussion	Grab your Spot in IT/ Semiconductor Industry	13/6/2020
16	Prof. Navjyotsinh Jadeja	How to Earn Online in 2020 and Beyond with Minimum Resources	14/6/2020
17	Prof. Prashant Mehta	Introduction to Flutter Mobile Application Development	14/6/2020
18	Sejal Darji and Mital May	Yoga for Holistic Well - being	20/6/2020

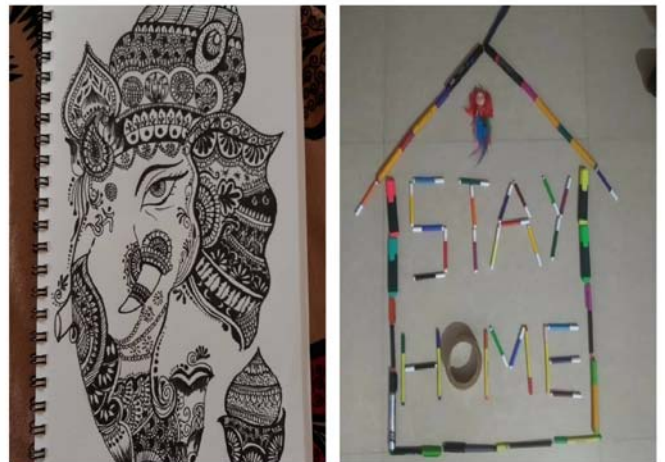
ALMA CONTRIBUTE

Giving is not just about making a donation, It's about making difference. An AAG initiate book donation drive has got tremendous responses from faculties, students and Alumni. Till date we collected around 800+ books and still getting mails and massages from students and Alumni.



GECR Got Talent-2020 GGT -2020

Great words said by Erica Jong “Everyone has talent. What's rare is the courage to follow it to the dark places where it leads.” So AAG provided Platform to the current students of GECR to showcase their talents in different fields like painting, dancing, singing etc. through social medias. This event was specially arranged when everyone at their home due to COVID-19. So AAG gave platform for the students to show his/her skill in any fields by submitting photographs or videos. Approximate 80 numbers of Students took part in this event



GATE Club Activities

Transformation of GATE 2021

GATE club of GEC,Rajkot has organised an online webinar on "Transformation of GATE-2021" in association with ELECOMM Institute,Ahmedabad on 11/10/2020. Under the coordination of Dr. H. P. Koringa 69 students has actively participated in the event.

Event Speakers Mr. Manish Kumar, M.Tech. (IIT-Rooke), IES (AIR-19), CSIR(AIR-4), ISRO (AIR-11), GATE Qualified & Mr. Raj Ravirajsinh, Ph.D.(IIT- Bombay) has 7 years of teaching experience of GATE exam preparation have highlighted GATE exam importance & it's opportunities.

Webinar Highlights :

- GATE exam and opportunities (both Short & Long term) for a GATE qualified candidate.
- Transformation of GATE 2021 including qualification, application, pattern changes.
- Masters/PSUs/Job after B.Tech
- Opportunities at IITs
- About JRF/SRF positions at IITs and how to crack them?
- Job opportunities after higher education (M.tech/PhD.)
- Various scholarship programmes (National and international) for master's

Career opportunities with GATE exam , it's new changes with Importance

GATE club of GEC,Rajkot has organised an online webinar on "Career opportunities with GATE exam , it's new changes with Importance" in association with ELECOMM Institute,Ahmedabad on 4/10/2020. Under the coordination of Dr. H. P. Koringa 165 students has actively participated in the event.

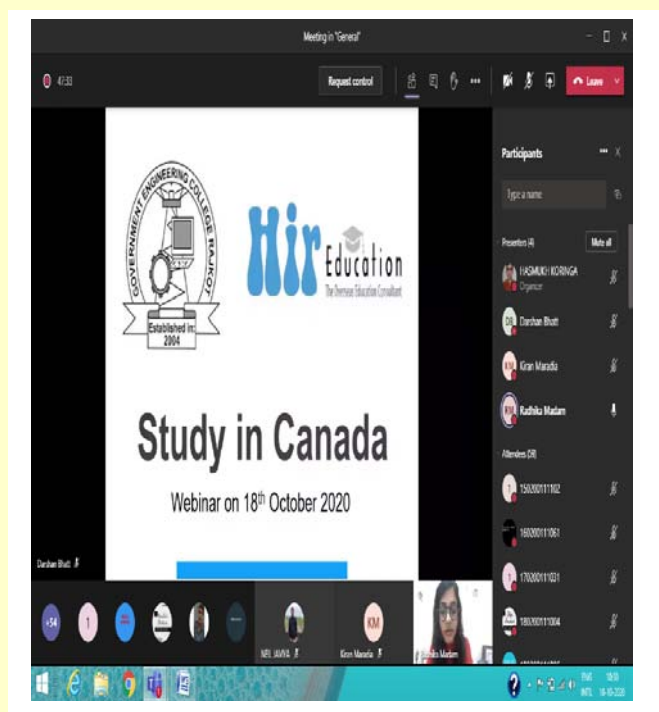
Event speaker Mr. Rohan, a corporate trainer an experience of over 10+ years in Training and Education industry has imparted detailed knowledge about GATE exam.

Webinar Highlights

- New changes in GATE exam and it's importance
- How to Get IISc/IITs/IIITs/NITs and other Reputed Uni. only Masters?
- What is stipend for M Tech and how will get it?
- How to crack PSUs and Government jobs with GATE exam?
- What is iPAT & other Job opportunities with Engineering?
- How to get Internships?

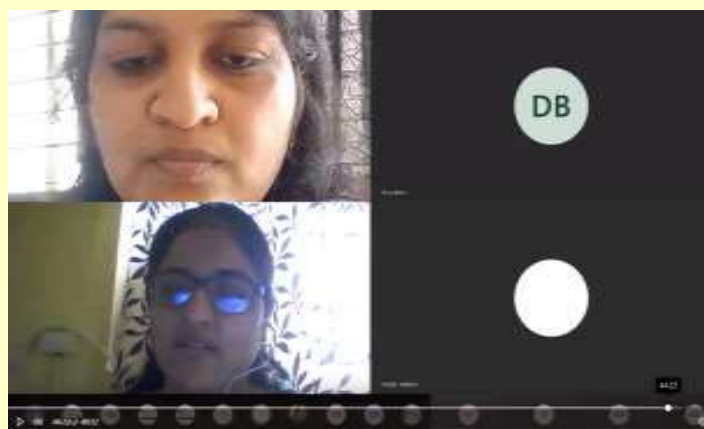
Study in CANADA

Foreign study club of GEC,Rajkot has organized an online webinar on “Study in CANADA” in association with Hir Education on 18/10/2020. Club has invited an expert Ms.Radhika, Senior counselor and international recruitment manager, Ontario College working as Canadian Admission expert with Hir education. Ms.Radhika has shared his views regarding Canadian education system, Admission criteria, Job chances after study. She also explained Work Option, Living options, Permanent Residency Options during and after foreign study in Canadian education system.



Women Development Cell Activities

Women Development Cell, GEC, Rajkot organized online webinar with joint efforts of Computer and Electronics & Communication (EC) departments on “Break your Glass Ceiling and Achieve your Goal: Role of Women in Administration” on 23/8/2020 using MS-Team Platform. Total of 64 participants from CE & EC branch students along with other department students attended this webinar. Expert speaker Ms. Dhara Bhalara, who is presently serving as the Asst. Rural Development Commissioner, Gandhinagar an alumna of Computer Dept., GEC, Rajkot (2014 batch), motivated the students for the preparation of the Competitive Exams for the Administrative Duties. She encouraged the students to achieve the goal with strong determination and hard work with which she was selected for cadre of Deputy Collector. Ms. Bhalara answered all the queries satisfactorily regarding the difficulties found by the females in handling such duties, types of papers/subjects and work environment, etc..

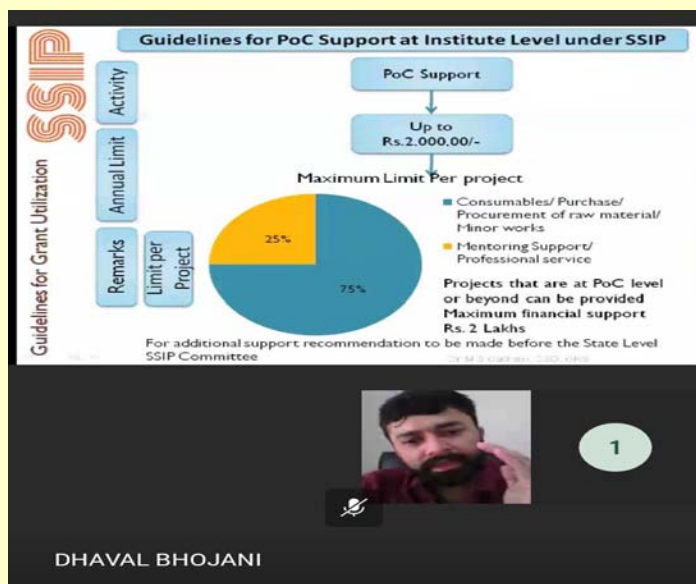


SSIP Sensitization Seminar

The "Sensitization seminar" was arranged with a view to sensitize the students about the Student Start up and Innovation Policy (SSIP) declared by Government of Gujarat. Prof. D. R. Bhojani had explained nicely about the guidelines of SSIP to utilize the fund for the better innovative ideas of students to be implemented. Faculties and students were informed about goal of institute for SSIP. It was told that faculties and students who are attending this workshop will sensitize other students of the institute about SSIP activities following Hub and Spoke model.

During the seminar Prof. R. A. Thakkar (Principal, GEC Rajkot), Prof. C. H. Vithalani (Head EC, GEC Rajkot), Prof. S. B. Parmar (Asso. Prof. EC, GEC Rajkot) and other faculties of the department remained present.

Prof. R. A. Thakkar had motivated students for innovative ideas to be found out from society and industry and work on them. Prof. C. H. Vithalani had inspired students with latest ideas regarding COVID pandemic and finalized the deadline for submitting the proposals of PoC and patents to department. Prof. S. B. Parmar had also motivated students to focus more on innovative ideas rather than conventional one.



ANDROID APPLICATION LAUNCH CEREMONY (Online)

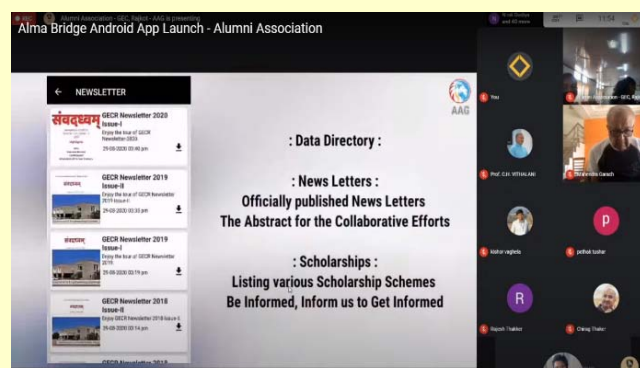
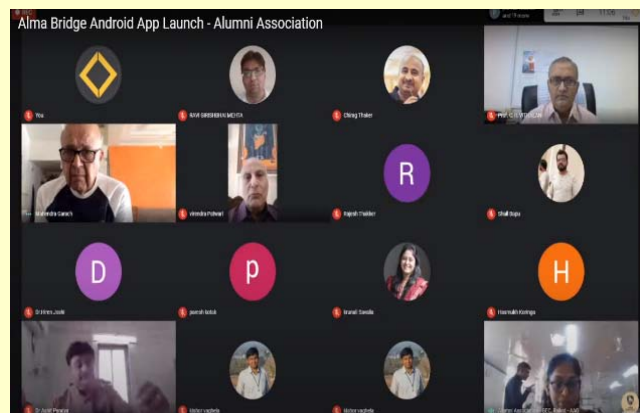
Alumni Association of Government Engineering college, Rajkot has launched its first version of Android Application on November 07, 2020 to create a common virtual communication platform for its Faculties, Current student and Alumni. The AAG APP launching ceremony was made remarkable with the presence of many prestigious guests like Shri G. T. Pandya (Director of Technical Education, Government of Gujarat), Prof. M. V. Garach (Retired Principal), Dr. R. A. Thakker (Retired Principal), Prof. V. M. Patwari (Retired Principal & Chairman of Alumni Association AVPTI, Rajkot), Dr. Ashit Pandya (Principal of AVPTI, Rajkot), Dr. P. P. Kotak (Principal of Government Polytechnic, Rajkot) Dr. C. H. Vithalani (AAG Mentor & Principal GEC, Rajkot) with all Head of Departments, Faculties, Current students and Alumni of all the departments of GEC, Rajkot.

Around 100 attendees witnessed the event through Google Meet and Around 1500 viewers attained this event through YouTube live.

AAG APP Playstore Link: https://play.google.com/store/apps/details?id=com.alumnigecr_aag

APP Launch Demo Video: <https://youtu.be/ujxA35-BhVE>

APP Launch Ceremony Video: <https://youtu.be/XmbnSyw7rFs>



ATAL FDP on "IoT"

Electronics & Communication Engineering Department of Government Engineering College, Rajkot organized one week faulty development program on "Internet of Things" during 2nd November to 6th November, 2020 in association with AICTE Training And Learning (ATAL) Academy.

Internet of things is the scenario in which network connectivity and computing capability extends to objects, sensors, actuators and everyday items so that they can also participate in exchange of information.

At present there are about 26 billion IoT devices are there and at every second about 127 new devices are being add in it. It is expected that total 31 billion devices will be there at the end of 2020. As per forecast done by International Data Corporation (IDC), in the year 2025, there will be 41.6 billion connected IoT devices, or "things," which will be generating 79.4 zettabytes (ZB)(270 bytes).

The main focus of this FDP was not only theoretical aspects of IoT but providing hands on experience to the participants including NodeMCU and Raspberry PI hardware and programming skills to realize an IoT application.

We have shown interfacing of different sensors with hardware like NodeMCU and Raspberry PI during the course. We have shown demonstration of uploading sensor data on cloud and monitor it remotely. Hands on sessions were conducted to control actuators with help of mobile app as well as web browser. This FDP was designed to provide hands on skills to the faculties of Electronics/Electrical/IC/Computer engineering programmes so that they can conduct laboratories of this subject and increase interest and skill of their students to cater future man-power requirements of IoT industry and Industry 4.0.

Participation details:

Number of participants applied: 300

Number of participants selected: 200

Number of participants shown inability to attend the programme: 10

Number of participants finally selected: 197

Number of participants successfully completed FDP: 87

Placements EC - 2021 Batch

In current pandemic situation of Covid-19 the Training and Placement cell of department is putting their best efforts to place student on their preferred work profile. Many students got placed during last semester and still many companies are arranging placement under the management of departmental and institute T&P coordinator.

Sr	Name of Student	Position	Name of Company
1	Sinha Sonal	Intern	Blitzjobs
2	KoulPooja	Intern	Blitzjobs
3	SingalaVaibhavi	Intern	Blitzjobs
4	Ahmad Nimra	Intern	Blitzjobs
5	Sanchania Bhumika	Intern	Blitzjobs
6	JagtiyaDharmesh	Intern	Blitzjobs
7	Shah Vikas	Intern ML	Hermit Labs
8	DevarshiVAidya	Internship AI and ML	Bolt IoT
9	DarshanZinzuvadiya	Internship AI and ML	Bolt IoT
10	DarshanZinzuvadiya	Wordpress Developer	Cypherox Technologies Pvt.Ltd.
11	KavadJignesh	Network Engineer	Supreme Solution Pvt. Ltd.
12	ZalaUrvesh	Software Engineer	La Net Software Solutions Pvt. Ltd.
13	Riddhi S Markana	Business Analyst	Tatvasoft
14	HirenManojbhaiPithva	.net Developer	Tatvasoft
15	VikasHiteshbhai Shah	.net Developer	Tatvasoft
16	GajeraShubham	Embedded Engineer	Nishtha Automation
17	JethvaKishan	Service Engineer	VEE Fix
18	RathodYuvrajsinhGagjibhai	ios Developer	eTechMavens
19	CHAUHAN KRUPALI VIPULBHAI	Quality Assurance	eTechMavens
20	PoojaKoul	BDE	eTechMavens
21	GirirajRaithatha	Marketing Executive	Easy Local Tech
22	Vikas Shah	Software Engineer	TCS
23	UrveshZala	Software Engineer	TCS
24	BhumikaSanchaniya	Business Analyst	Weboccult
25	PatharKishanSanjaykumar	Reserch&Devloping& manufacturing	ANSH EXIM
27	Nimra Ahmed	Business Development Executive	Cypherox Technologies
28	DarshanZinzuvadiya	Web Developer	Cypherox Technologies
29	VaibhaviShingala	Technical Content Writer	ElluminatiInc

Advisors:

Dr. C.H.Vithalani
Principal,
Govt. Engg. College,
Rajkot.

Prof.S.B.Parmar
Head of Department - EC
Govt. Engg. College,
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Newsletter Team – EC Department

Prof Jay Pandya
Prof. Niranjana Agrawat

