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Newsletter of
Government Engineering College, Rajkot
Volume - V | Issue - I
2021

Highlights

Alumni Association Activities
Placements – 2021 Batch
SSIP Activities
NCC Activities

Vision

To bring out technically competent and socially responsible engineers.

Mission

- 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 upgradation 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.

Message from Principal's Desk

It is my proud privilege to greet all faculty members and students of the institute for continuing Gyan-Yagna   through online education during pandemic Situation prevailing from March 2020 onward(જ્ઞાનયજ્ઞ)

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. We have understood the warning given by nature about, not to harm Co-existence for personal benefits. We have proved that education is the most powerful weapon which will never stop in any situation.

In this course of action teachers and students become familiar with various online platforms like Microsoft Team, Zoom, Google Meet, CISCO Webex, Jio Meeting and many others for conducting and attending the online sessions.We are very much thankful to Alumni Association of GEC Rajkot (AAG) for launching useful Mobile Application and conducting webinars on emerging topics. It seems that online education will still continue even after situation becomes normal in the form of blended learning. Blended learning is a style of education in which students learn via electronic and online media as well as traditional face-to-face teaching. COVID-19 made compulsory for all of us to implement Information and communication technologies (ICT for online education) . Although online engineering education is challenging because it is based on applied science and mathematics which makes it significantly different from other disciplines. These subjects are traditionally difficult to teach online because they need laboratories and equation manipulation techniques. It is almost impossible to conduct hands-on laboratory sessions online because it needs physical interaction.

There are three major domains of learning: Cognitive, affective and Psycho motor. Online education for cognitive and affective domain may be possible by using innovative teaching-learning methodology but it is impossible for psychomotor domain. Online delivery or classroom lectures, demonstration and Conduct of laboratory experiments, course and class management and administration demand lots of cognitive involvement. We should also accept that we do not have enough digital infrastructures to support online education due to non-availability of network on remote areas .Hence it is almost impossible to cover 100% Students in present Situation of network. It is the time when giant communication industries should contribute to Society by providing free data to the students for education purpose and network coverage on every remote corner. Government in liaison with communication industries must work together to Solve infrastructure problem and lower the cost of data. We have enough infrastructures at institute level but it does not have any meaning if individual student located in remote Villages does not have it at their end. For successful blended learning remote Villages are also required to have internet connectivity.

We congratulate students for attending online classes, attempting quizzes and online practical viva in spite of all difficulties at their level. We know that there was acute network problem at student's end but Somehow they have managed the crisis. They have tested and shared their oral feedback for each platform with faculties. There were many reputed institutions offering free on- line courses in latest technological domains and I am happy to share that many students and faculties have taken advantage of such opportunities and attended courses for knowledge updation and skill development. I would suggest students should grab opportunity for offline/online industrial internship. We congratulate training and placement team of GEC Rajkot for successful placement of students during this hard time.

(Dr. CH. Vithalani)

Content

National Cadet Corps Naval Wing

In the first year of NCC, 18 cadets enrolled and they have undergone and completed the first year training. Selection was held by unit and A.N.O. Yagnesh Joshi sir. Cadets went through three phase of selection physical, written and interview by commanding officer.

Activities By NCC GECR:

- **NCC Training:**
  All the cadets have completed their first year training that was of 15 days, (4.5 hours each day). The 15 days of parade practice includes defence training and learned all other general subjects relevant to NCC.

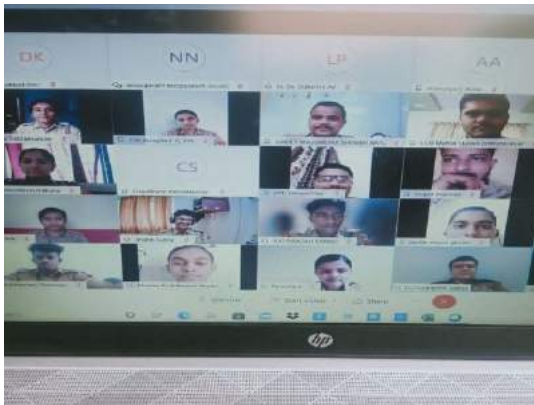- **Ek Bharat Shreshtha Bharat (online):**
  Six cadets actively took participation in EBSB interstate camp (camp duration 1 week) and 1st prize was secured by CDT. Dhaval Kakkad in debate competition.
  L. CDT. Raj Solanki and CDT. Priyal Jasmani represented Gujarat Dte. in front of West Bengal and Sikkim Dte.
  CDT. Harshil Harsora, CDT. Meerali Nashit, CDT Dhaval Kakkad and CDT Riya lunagariya represented Gujarat Dte. in front of Kerala and Lakshadweep Dte.

- **Poem Competition:**
  CDT. Vivek Ray Participated in poem competition and His poem is selected for publication of "NCC Gujarat State Journal" yearly volume.

To be continued...

- **Other Activities Held by NCC:**

Before and during the covid-19, our cadets have done immensely good work. Even during the critical time of this pandemic, they have done such a brilliant job and done so many activities like tree plantation, clothes donation, awareness programs related to covid-19, fit india run, cleanliness campaign and they also went through Gujarat Institute of Disaster Management(GIDM) disaster management training & COVID-19 Training for NCC Cadets conducted by DGNCC.
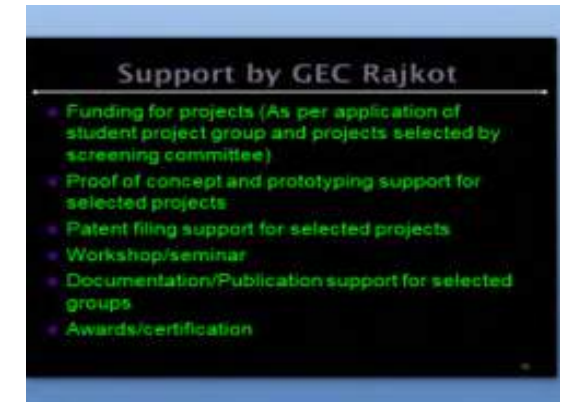

SSIP Seminars

Civil Engineering and Applied Mechanics Dept.:

1. Date: 18-08-2020
   Coordinator: Prof. S.S.Chourushi

The **"SSIP sensitization seminar"** was organized for students of semester 3 and total 47 students from Civil engineering and Applied mechanics departments participated in the seminar through online mode using Microsoft teams software. They were informed about the SSIP grant and other important points related to SSIP. Participants also exchanged their ideas with faculties.

2. Date : 21/08/2020
   Coordinator: Prof. Shilpa Chavda

A session on **"Start Up"** under SSIP was organized by Civil engineering and Applied mechanics department on 27st August 2020 at 4:00 pm through online mode in Microsoft teams software. This talk was organized for students of Semester 7 & semester 5 of Civil engineering Department.

Total 46 students from Civil Engineering Department had participated in this SSIP Start up talk through online mode by using Microsoft teams software. Students were informed about SSIP Schemes, PoC, Start up Vs Business, Benefits of Start up, Procedure, Steps & Guideline regarding Start up. Students thoroughly enjoyed the session and also exchanged their ideas.

3. Date : 09/10/2020
   Coordinator: Prof.K.B.Vaghela

Under SSIP, Civil engineering and Applied mechanics department organized a webinar on **"Innovative Practices Follows on Construction Site"** for all semester students on 9/10/2020. **Er. Bharat N. Titiya**, from Aditya Birla Company shared his expertise with attendees. Total 33 students and all faculties attended the event.
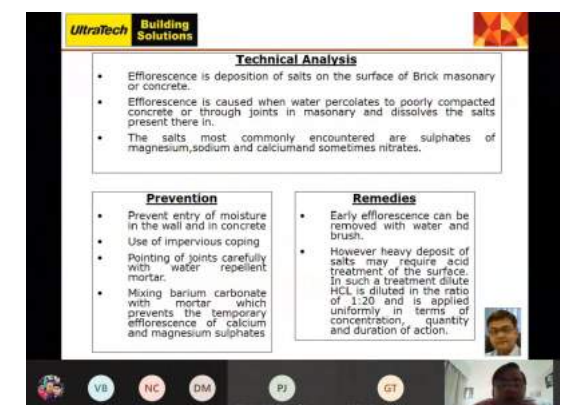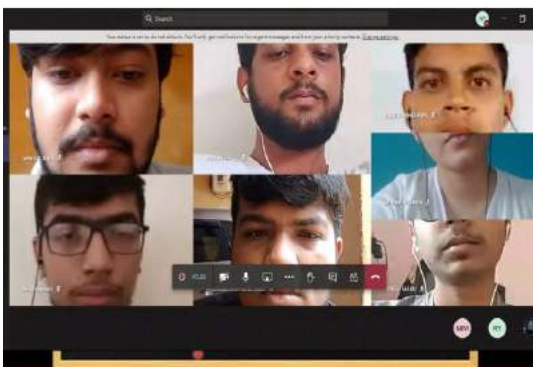
Instrumentation & Control Engineering Dept.:

1. Date : 24/08/2020
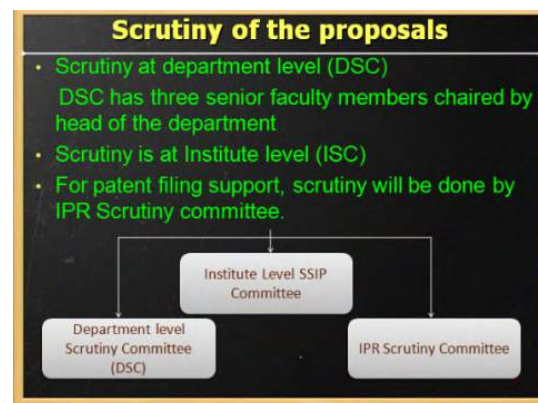**Coordinator: Dr. Prakash Pithadiya,**
Prof. D.K.Chotaliya

As a part of Student Startup and Innovation Policy (SSIP), IC department of GEC Rajkot has organized Live Seminar on "**Sensitization for SSIP Activities and Guidelines**" on 24th August, 2020 on Microsoft Teams. All Students of Pre-Final Year (5th Sem) attended the Webinar. **Dr Prakash Pithadiya** Assistant Professor IC department have taken the session on the above topic.

2. Date : 25/08/2020
Coordinator: Prof.H.R.Patel,
Prof. D.K.Chotaliya

As a part of Student Start up and Innovation Policy (SSIP), Instrumentation and Control Engineering Department of GEC Rajkot has organized "**Sensitization webinar**" for semester-3 students on 25th August 25, 2020. Total 18 students attended the webinar.

3. Date : 01/09/2020
Coordinators: Prof. Dipesh Vyas,
Prof. Sweta Parmar,
Prof.D.K.Chotaliya

As a part of Student Startup and Innovation Policy (SSIP), IC department of GEC Rajkot has organized Live Webinar on "**Startups – From Idea to Product**" on 1st September, 2020. All Students of Pre-Final Year and Final Year attended the Webinar. **Mr. Ronak Dave** and **Mr. Hemanshu Chovatiya**, have taken the session on the above topic.

4. Date : 01/09/2020
Coordinator: Prof. D.K.Chotaliya

As a part of Student Start up and Incubation Policy (SSIP), IC department of GEC Rajkot has organized Webinar on "**Design Thinking and Design Methodology**" on 15th September, 2020. This webinar was organized for IC students of 3rd, 5th and 7th semester.
During the session, following points were discussed:
- To recognize the latest and future issues and challenges in innovation.
- To expose the student with state of the art perspectives, ideas, concepts, and solutions related to the design and execution of innovation driven projects using design thinking principles.
- To recognize and specify the best problem to solve and restate the problem as a function of its mutually exclusive and collectively exhaustive different dimensions.
- To propose a concrete, feasible, viable and relevant innovation project/challenge.

5. Date : 08/09/2020
Coordinator: Prof. Kanikdeep Flora, Prof. D.K.Chotaliya

As a part of Student Start up and Incubation Policy (SSIP), IC department of GEC Rajkot has organized Webinar on "**Entrepreneurship Development**" 8 th September, 2020. This webinar was organized for IC students of 3 rd , 5 th and 7 th semester.

Mr. Ketan Bhavsar, Co-founder of Brainklick Technology, Ahmedabad, was the guest speaker for the session. The speaker explained entire process of Entrepreneurship development, funding, challenges faced and how to establish your own business.

To be continued...

## Electronics & Communication Engineering Dept:

1. Date : 29/09/2020
   Coordinator: Dr.Dhaval Bhojani

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.

Out of the students who have participated in the workshop many were willing to get fund and support for their start up and innovative ideas.
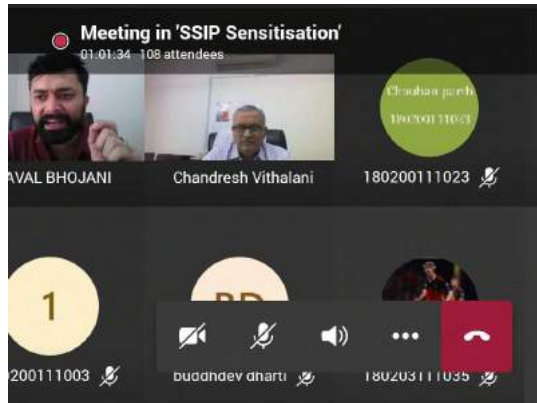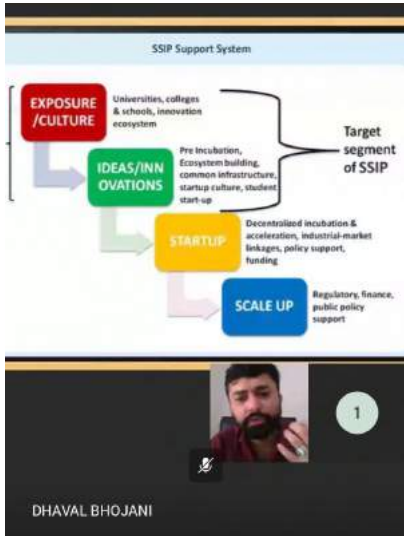
Electrical Engineering Department

1. Date : 23/08/2020 and 24/08/2020
   Coordinator: Prof. Kalpesh Dudani

Electrical Department of Government Engineering College, Rajkot organized a SSIP event on "**SSIP SENSITIZATION SEMINAR**" on 23/08/2020, 10:00 am. and 24/08/2020 at 2:30pm. **Prof. Kalpesh Dudani** had conducted seminar to aware students about various schemes of SSIP. Total 88 students from 3rd and 5th semester participated the event.

2. Date : 04/09/2020
   Coordinator : Prof. Hitarth Buch

Department of Electrical of GEC Rajkot organized a seminar on "**Start Something that Matters**" to make student aware about Entrepreneurship.

Mr. Vishal Virani was the guest of the event. he is the Founding CEO of Coruscate Solutions Pvt.Ltd. also the Co-Founder of Zujo Tech Pvt.Ltd. He gave a speech on how to start the entrepreneurship on our own. Also the told that how he started his first company with his friends when he was in college perusing his bachelor's degree. he also told us about many other famous business man who started their business alone with a small amount of money and today they are the owner of multinational company. He said that should always try to get the solution of our problems instead of ignoring them also you should not be jealous of others success in life and leaving our goals and following the succeed person because your goals demand more time and more hard work than his goals. He also said that you should stick to your goals ignoring all the negative comments which are given by the society and don't lose hope because you will succeed in more or less time and if you fail in our goals take it positive that at least you tried it. He also stated that "any motivational speech of videos cannot motivate us until we get motivation from inside". Since others motivation can motivate you for some days or some weeks but inner motivation can motivate you life time. Total 85 students were benefited by the program.

3. Date : 16/09/2020
   Coordinator: Prof. Hitarth Buch

Electrical Department, GEC Rajkot organized a seminar on "**SSIP Entrepreneurship Awareness Workshop**" for BE Electrical Sem-3 & 5 students. **Mr. Dharmendra Pandya**, Assistant Manager, the center for Entrepreneurship Development – Government of Gujarat had conducted workshop to aware students about Entrepreneurship. Total 35 students participated the program.

4. Date : 6/10/2020
   Coordinator: Prof. Megha Patel

To Orient Students Towards innovation and patenting of invention, a seminar on "**Intellectual Property Rights**" was held by electrical department of the institute on 6/10/2020 under SSIP.

Dr. Preet Deep Singh was the guest of the event. Handle Data at Invest India (National Investment promotion and facilitation agency). He has Worked on National Single Window Portal announced in Budget 2020. Dr. Sing has Worked on Business Immunity Platform to ensure continuity of essential business activity during Corona Lockdown. Dr. Singh has started his session very interestingly by taking an example of "How to make Khichdi" and explained about if some brand is selling Khichdi then can others make it same? Sell it? and Scale it? By very basic example, he has cleared doubts about Trademark, Copy right and Patent. There were many examples were given and discussed by an expert and the students interaction has made this session very informative and fruitful. 94 Students of semester 4 and semester 6 along with faculty members of Electrical Department.

GATE CLUB – GEC Rajkot Activities

### Webinar on "All About GATE 2021"

Date : 18/08/2020

Expert : Dr. Ravi V. Gandhi has more than 10 years of Research/Teaching/Industrial experiences in the area of Control & Instrumentation. He recently completed his Post. Doctoral Research work from South Korea at Ghent University. He has achieved the Visvesvaraya Fellowship for full-time PhD in the area of Control & Automation from the Govt. India at Nirma University.

Student Participants : 150

Coordinators : Prof. D.S. Vyas and **Prof. H.V. Kannad** (IC Dept.) , **Dr. H.P.Koringa** and **GATE club**

Participants got the knowledge of procedure for preparing for GATE exams. They got a clear idea of what one wants to do after qualifying GATE exam so that they could have realistic goals in their mind and can strive same direction. They got information about various other exams similar to GATE which can lend them a good job and also about various PSU(s).
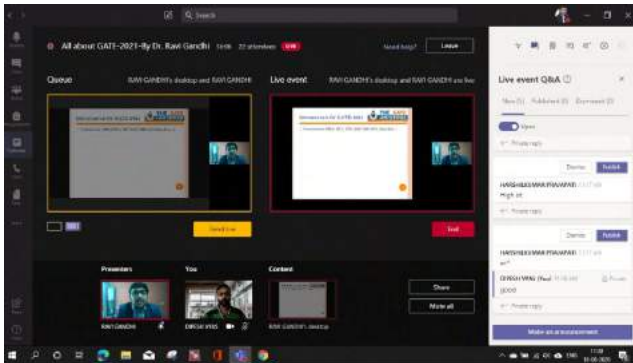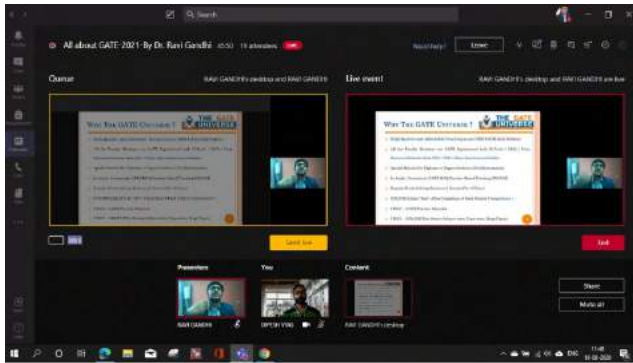
Career opportunities with GATE exam, it's new changes with Importance

Date : 4/10/2020

Expert : Mr. Rohan, a corporate trainer an experience of over 10+ years in Training and Education industry.

Student Participants : 129

Coordinator : Dr. H.P.Koringa and GATE club

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?

### Transformation of GATE 2021

Date : 11/10/2020

Experts : **Mr. Manish Kumar**, M.Tech. (IIT-Rookee), IES (AIR-19), CSIR(AIR-4), ISRO (AIR-11), GATE Qualified **Dr. Raj Ravirajsinh**, Ph.D.(IIT- Bombay), 7 years of teaching experience of GATE exam preparation.

Student Participants : 69

Coordinator : **Dr. H.P.Koringa** and GATE club

Webinar Highlights
Overview of GATE exam and opportunities 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 students
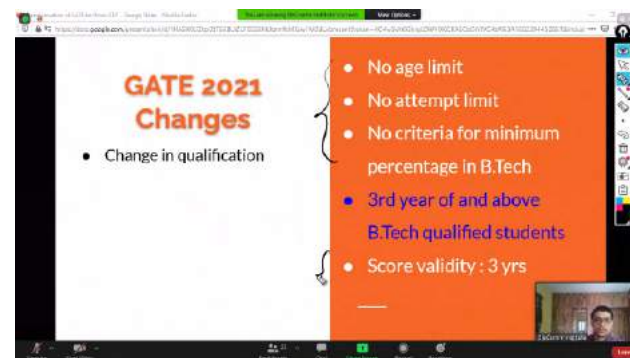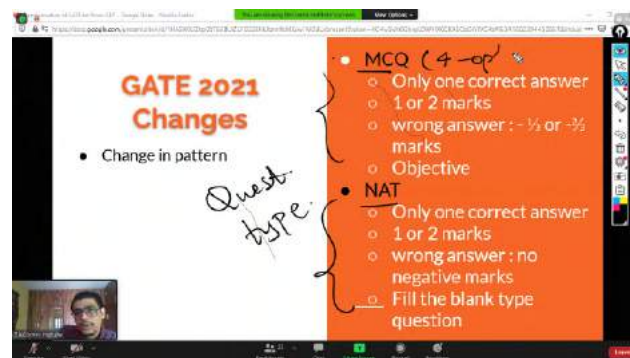
The Alumni Association of GEC-Rajkot (AAG) Activities

### 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
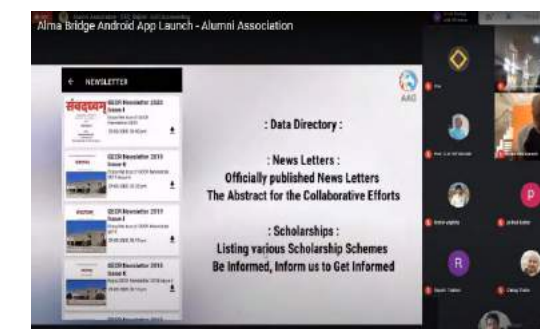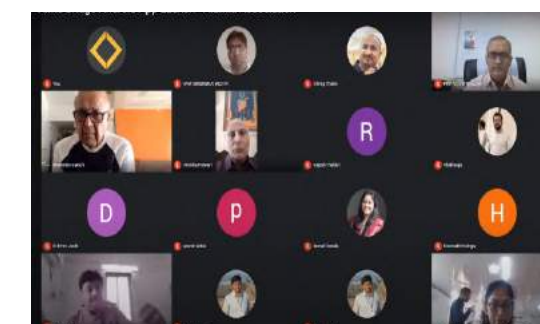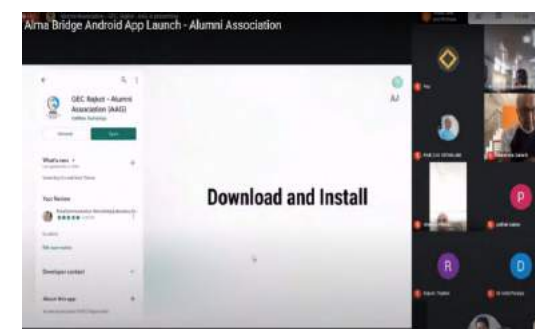
To be continued...

ALMA – CONNECT

The Alumni Association of GEC-Rajkot (AAG), an initiative driven association, has always strived to justify the purpose of its existence by organizing annual Alumni meet and felicitation ceremony of the toppers of all branches of institute.

In this COVID-19 hit situation it 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 9th 2020, with the invitation to registration of the experts to contribute towards knowledge enhancement, AAG launched – **Alma Connect**, a platform that brought together industrialists, teachers, alumni, influencers and job seekers together, sharing their experiences and knowledge.

Following talks and panel discussion are organized in the span of 1 month:

Srl.no.	Experts	Topic of Talk	Date	Time
1	Naimish Vadodariya	Life after Lock down (Tech v/s Non-Tech Field)	10/5/2020	10:30 AM
2	Umang Sangani	Art and Engineering Convergence in Digital Times.	10/5/2020	5:00 PM
3	Vishal Virani	Beyond corona Virus: Path to the Next normal	12/5/2020	11:00 AM
4	Jeet Manek	Few Things to keep in Mind before getting a Bachelor's Degree	15/05/2020	5:00 PM
5	Nirali Dodiya	Importance of Digital Forensics and Evidence in Cyber Crime Investigation	16/05/2020	5:00 PM
6	Dharmesh Kavaiya	Industrial IoT, Industrial Automation, IOT	17/05/2020	11:00 AM
7	Placement Cell, Harsh Kotak, sai Sankar Iyre, Gopal Budhdhdev, Chintan Padhiyar, Rushi Sangani, Pranav Dholiya	Get Equipped for future Jobs	17/05/2020	5:00 PM
8	Shreya Doshi	Machine Learning and Future of it	18/05/2020	6:00 PM
9	Kuman Kothiya	Python Development and Automation	23/05/2020	6:00 PM
10	Nikhil Jha	How to Find What you Want to in your Life	30/05/2020	11:00 AM
11	Chirag Suryakant Thaker	Symphony of IoT and IoE Synergy	30/05/2020	6:00 PM
12	Rinu Raju	Human Resources – Adapting Oneself to the Changing Market Dynamics	31/05/2020	11:00 AM
13	Arjun Kava	Why should Anyone Hire you?	31/05/2020	5:00 PM
14	Dr.Ketan Kotecha	AI for All	6/6/2020	11:00 AM
15		Why PG in Technology is a Smart Career Move-post COVID-19	10/6/2020	6:00 PM
16	Panel Discussion	Grab your Spot in IT/ Semiconductor Industry	13/06/2020	6:00 PM
17	NavjyotsinhJadeja	How to Earn Online in 2020 and Beyond with Minimum Resources	14/06/2020	11:00 AM
18	Prashant Mehta	Introduction to Flutter Mobile Application Development	14/06/2020	5:30 PM
19	Sejal Darji and Mital May	Yoga for Holistic Well - being	20/06/2020	7:00 AM

AAG believes that success in any endeavour is dependent on networking - stronger the network, more the cooperation and growth. In its attempt to connect all stake holders   AAG has launched official alumni accounts on - **Instagram, Twitter, Youtube, Facebook, linkedin**.

ALMA CONTRIBUTE

Giving is not just about making a donation, it's about making difference. An AAG initiative Book Donation Drive has got tremendous responses from faculties, students and Alumni. Till date Alumni association has collected around 900+ books and still getting mails and massages from students and Alumni. The donors are acknowledged with a pen as a token of love and appreciation from Alumni Association.

Dr. C.H.Vithalani, Prof.K.B.Rathod, Prof. Jay Pandya, Mr.Harsh kotak, Mr.Srujan Sarvaiya, Mr.Niraj Gohel, Mr.Rupesh Vishwakarma, Mr.Parth Boksha, Mr. Prince Bhuva, Mr.Kiritbhai Trivedi, Mr.Hardik Mavadia and many more donors have also donated the books in AAG initiative.

To be continued…

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. 80+ Students took part in this event.

DSC - Developer Student Clubs

About DSC :

Developer Student Clubs are university based community groups for students interested in Google developer technologies. Students from all undergraduate or graduate programs with an interest in growing as a developer are welcome. By joining a DSC, students grow their knowledge in a peer-to-peer learning environment and build solutions for local businesses and their community.

This year we got the privilege to have this club at our campus with Jemik Patel being selected as the DSC Lead for our campus.

Session-1: Introduction to DSC

To bring awareness among students regarding function and advantages of the Developer Student Clubs. Also to make them aware about the goal of the club and future events which are going to be organized under the club.

As DSC came to our campus after 2 years, so many students were not aware about it. So to make the students aware about DSC, our campus lead - **Jemik Patel** hosted an info session - "**Introduction to DSC**" and we had a very special guest with us - **Nikhil Jha**, Formal DSC Lead and an entrepreneur.

The session started from 10:00 am on 5th September 2020, Saturday on Microsoft Teams. 112 students registered for the session and around 137 attended the session. The topics discussed were - Introduction to DSC, aim of DSC, presence of DSC, update on next events, student's role and the history of DSC GECR with our guest, Nikhil Jha.

In the guest talk with Nikhil Jha, the discussions made were - DSC at Nikhil's time, workshops he conducted, the student's response, his experience as a speaker in Mobile Developer Fest and much more !!

Then during the Q&A session, the students came up with their doubts about DSC and many interesting questions about development.

The session ended with a very good note by Tony Robbins - "The only limit to your impact is your imagination and commitment"

DSC GECR received a huge overwhelming response from the students and now DSC GECR is all set to host more workshops in future.

Session-2: Everything about git and GitHub

After DSC GECR's first session - "Introduction to DSC", we got a huge and overwhelming response from students and they were very excited and eagerly waiting for DSC's next session. So, DSC GECR came up with its next session - "**Everything about git and GitHub**" by **Dhaval Savalia**, DSC GECR Core Member, final year student, Python Developer and Django Expert.

The session started from 9:30 am on 12th September 2020, Saturday on Microsoft Teams. 127 students registered for the session and around 152 attended the session. The topics discussed were - Version Control Systems, Git vs GitHub, Commands and Usage, Info about Hacktoberfest and GitHub Education Pack

The session started with some inspirational words from our HOD sir ,**Mr. Chirag Thaker**. He appreciated DSC's initiatives and told more and more students to join the club.

Then our speaker, Dhaval Savalia took over and continued the session. The session started with an introduction to the version control system and its importance, then the difference between git and GitHub was discussed.

Then the speaker drove to various commands of git with its implementation. Then he showed the same thing in GUI with GitHub.

At the end of the session, the information about Hacktoberfest and the importance of the GitHub Education pack was given to students. The session ended by resolving the doubts and questions the students had.

Overall, it was an amazing event and the students got to know the advantages of version control, how to use it and eventually they can expand their horizon and start their open-source contribution.

Youtube Url : https://youtu.be/ow4vV-x_hK8
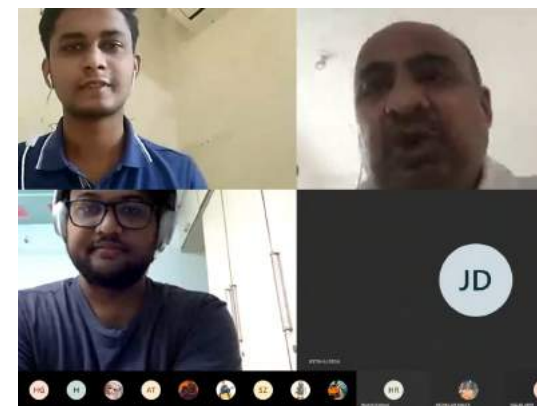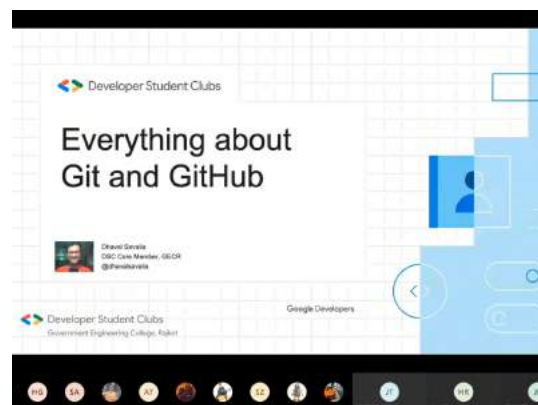
Session-3: Getting started with Competitive Programming

After DSC GECR's second session - "Everything about git and GitHUb", we got a huge and overwhelming response from students and they were very excited and eagerly waiting for DSC's next session. So, DSC GECR came up with its next session - "**Getting started with Competitive Programming**" by **Jatin Nagpal**, ICPC Asia-West Finalist, InternationalMaster @Codeforces, 6 start @CodeChef and Top-10 @CodeForces India.

The session started at 5:00 pm on 4th October 2020, Saturday on Microsoft Teams.86 students registered for the session and around 110 attended the session. The topics discussed were - What is Competitive Programming, Why to start Competitive Programming, Popular Languages for Competitive Programming, Roadmap, Contest Steps, Various International Contests and Competitive vs Development.

The session started with the topic that what is Competitive Programming. Then the most important topic - Why Competitive Programming? In this topic, the advantages of competitive programming were discussed and why one should pursue it. Aslo, how it helps to grab a job at giant tech companies was also discussed.

Then the speaker discussed various and popular languages for Competitive Programming. The discussion was made between C++, Java and Python on the basis of their execution time.

Then the roadmap to get started with Competitive Programming was discussed. Which resources, books, websites and YouTubers videos to follow was discussed here.

Then ideal steps one should follow while giving a contest was discussed and one example from CodeForces was spolved so that the students can know how to approach a problem.Then the information about various programming contests was shared and how to get community support for a problem was discussed.
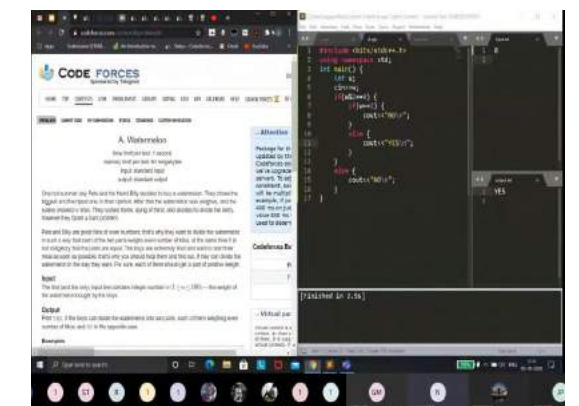
At the end of the session, the important topic Competitive vs Development was discussed.

Overall, it was an amazing event and the students got to know the advantages of Competitive programming and how to get started.

Youtube Url : https://youtu.be/MWr6soWGPdQ

Placement Cell

Placement Data of 2021 batch is astonishing, with students having average package of 2.28 LPA.

Sr. No.	Name of company	Package (LPA) Min	Package (LPA) Max	Total Selections
	Government Engineering College, Rajkot			
	Campus Recruitment Statistics - Batch 2021			
1	Blitzjob (Internship)	NA	NA	10
2	Hermit Labs (Internship)	NA	NA	1
3	RKIT Softwares Pvt Ltd, Rajkot	2.5	3	4
4	Cypherox Technologies Pvt Ltd, Rajkot	1.44	1.44	1
5	Improwised Technologies Pvt.Ltd, Rajkot	2	2	1
6	Supreme Solution Pvt. Ltd., Ahmedabad	2.25	2.25	1
7	La Net Software Solutions Pvt. Ltd. , Surat	2.5	3.2	2
8	Bacancy Technology, Ahmedabad	2.52	2.52	1
9	Bhavid Technology Pvt. Ltd. , Rajkot	1.2	1.44	1
10	Cybercom Creation	2.64	3.12	8
11	eSparkBiz	1.98	2.4	2
12	Tatvasoft	2.28	3.6	11
13	Innovators and You (Internship)	1.2	1.44	1
14	SixtyFour Data Intelligence LLP (Internship)	1.2	2.25	1
15	Kevit Technologies	2.4	3	1
16	Nishtha Automation	2.25	2.25	1
17	VEE Fix	1.2	1.2	1
18	eTechMavens	1.84	2.4	6
19	Easy Local Tech	1.44	1.44	1
20	Valens Data Labs	2.1	2.6	1
21	Radixweb	2.5	3	2
22	Silent Infotech	2.5	2.5	1
23	TCS	3.2	3.6	3
24	Kevalam Software	2	2.4	1
25	Unitech Workholding Systems	1.44	1.8	1
26	Weboccult	2.4	2.4	1
27	ANSH EXIM	1.2	1.44	1
28	Scanpoint Geomatics	2.5	3.6	3
29	Meditab	3.6	3.6	1
30	Simform	3	3	1
31	WeyBee Solutions Pvt. Ltd.	2.4	2.4	2
32	Bolt Iot(Internship)	NA	NA	4
33	Rao Informatics	2	2.4	5
34	ProEx Advisors LLP	2	2.4	1
	Average	**2.11**	**2.45**	**83**

Placement Cell, Government Engineering College, Rajkot

Mentors: Dr.C.H.Vithalani
Prof. K.B.Rathod
All Head of Departments

Convener: Prof. Jay Pandya

Departmental Coordinators: Prof. J.V.Doshi (CE)
Prof. P.A.Lathiya (CE)
Prof.D.J.Marsooniya (Mech)
Prof.D.K.Chotaliya (IC)
Prof. K.D.Chaudhari (Auto)
Prof. K.J.Savaliya(Civil)
Prof.M.B.Patel (Elec)
Prof.Archana Dubey (H&S)

Companies at a glance

Online Industrial Visit

Department of Mechanical Engineering, Government Engineering College, Rajkot organized Online Industrial Visit at Pratik Industries, Rajkot in association with INSTITUTION OF ENGINEERS INDIA (IEI) on 29th August,2020. Prof. D.R.Bhatti, Prof. Jay Pujara and Prof. P.B.Mandanka coordinated the event. Total 82 students participated this event.

This Industry is established in the year 1992. "Pratik Industries", are a pre-eminent and experienced organization engaged in manufacturing and supplying of automobile engine parts. In this range, they offer products such as automobile suspension parts and oil engine parts. The outstanding attributes that demonstrate the good quality of their product line are high tensile strength, resistance against corrosion and wear & tear durability, reliability, and flawless finish. To make sure that their range bears above mentioned features, they make use of optimum quality metal, procured from eminent vendors of the industry. In addition to this, they manufacture these products in strict adherence to stated quality standards & norms. The main aim of the company is to satisfy customers by providing them a peerless range of products as per their detailed specifications.

By this Digital way industrial visit, students had some new experiences. Students get knowledge about the actual methodology of the production industry. They learned how conventional and advanced machines like CNC & VMC are working for the production of different engineering parts. Students have gone through turning, drilling, facing, milling, and threading the machine and acquired knowledge about M/C working. The in-house facility of heat treatment like induction hardening provided knowledge about heat treatment and hardness testing. Students had familiar with different manufacturing processes and different operations step by step for making a particular product. In last, students get the motivation to become an entrepreneur in the future by the speech of Mr. Pratik Ahya.

Students observed following processes online:

1. Cutting Process

2. Turning Process

3. Milling Process

4. Drilling Process

Webinar on "Hazardous area classification & IP protection"

Instrumentation & Control Engineering Department of GEC Rajkot organized an online webinar on 5thSept, 2020 on "Hazardous area classification & IP protection". 58 Students of final year along with faculty members of IC department attended the webinar. Mr. Pinak Shukla, Sr. Principal Engineer, Linde Engineering India Pvt Ltd., Vadodara, took the session on the topic. Dr.R.K.Shukla coordinated the event in the guidance of department head Dr D.H.Makwana.
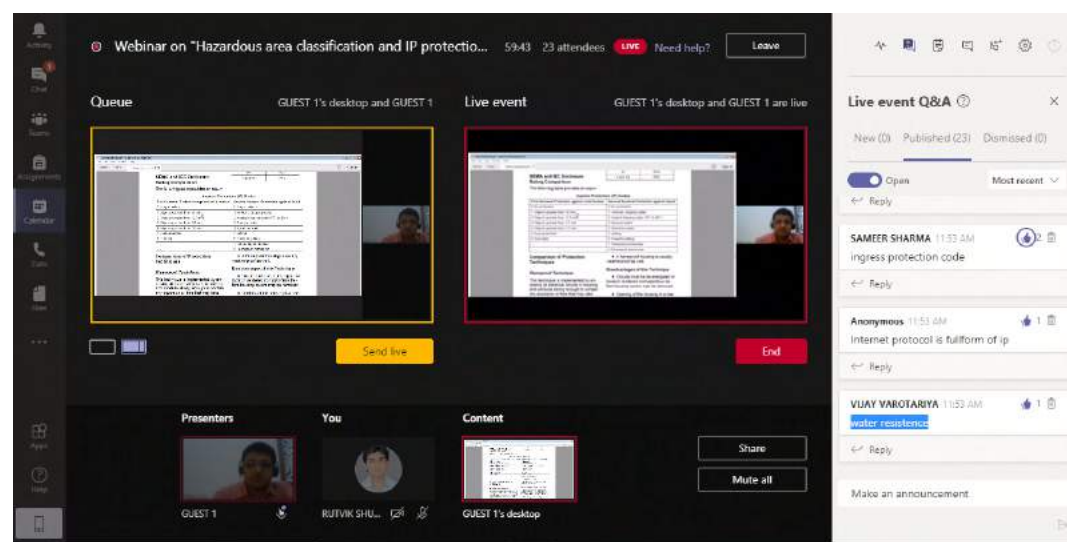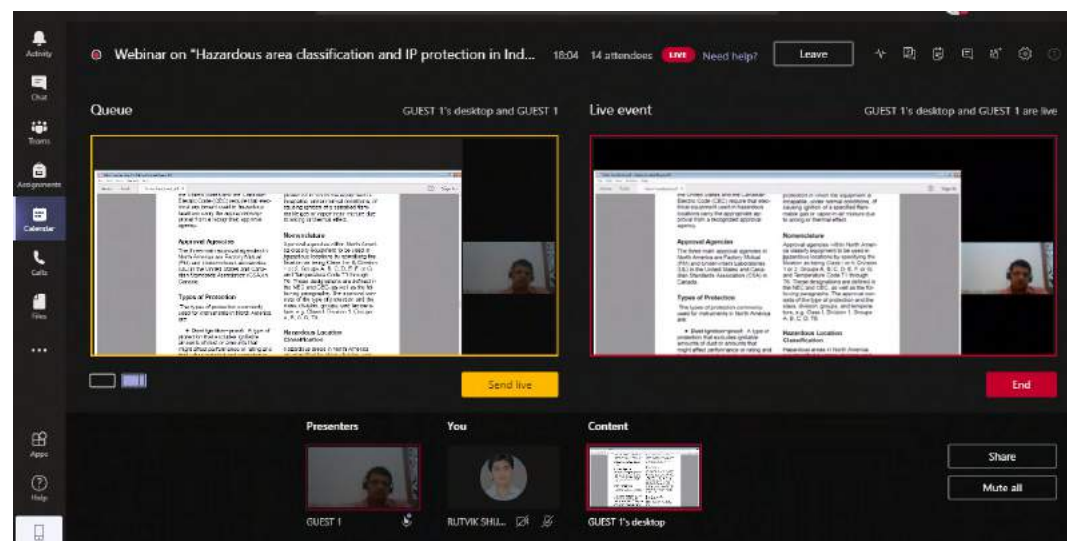
Webinar on "Ethical Hacking and Cyber Security"

On Sep 12 2020, IEI CE Student Chapter GEC Rajkot organized a webinar on Cyber Security Awareness Ethical Hacking presented by Mr. A. M. Pachouri, founder & CEO of Masters in Ethical Hacking, cyber-security consultant for over 5 years, a certified ethical hacker, freelancer and YouTuber.

The session was conducted as a webinar considering the health guidelines and over 100 students (IEI members or otherwise) were in attendance. Mr. Pachouri started the session with stating what "cybercrime" is and what constitutes cybercrime. He further shared what acts can be "cyber bullying" and how hacking videos have adverse effect on underage kids. As a case study, he showed some cyber-attacks that has happened in the past e.g. on Punjab police, when PM's social media was hacked etc. which made students realize that all need better security and should learn basics in this field.

He demonstrated a few ways in which "fishing" can happen, whether certain applications are safe to use or not, if auto OTP is right to use or not, how screen sharing applications can be used to hack systems too. Participants learned that famous and widely used apps such as "play store" may also contain apps that are for fishing people and get money from them.

The expert explained what "wanna cry ransomware" can do. And had a very active Q& A with participants where students asked questions from cyber-security, ways to hack, methods of security updates and more.
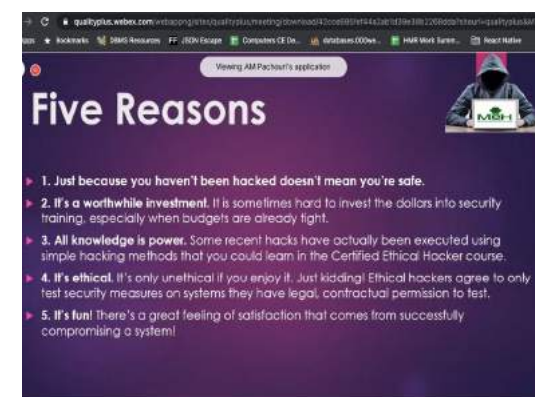
Webinar on "Study in Canada

Foreign Study Club of Government Engineering College Rajkot organized a Webinar on "Study in Canada" on 18/10/2020 for students of all semester and all departments. Expert, Ms. Radhika, Senior counselor and international recruitment manager, Ontario College shared her expertise with total 135 participants. Dr. H P Koringa coordinated the event.

Following topics were covered in the webinar:
- Overview of Canada,
- Why chose Canada as study destination,
- Canada Education System,
- Admission Criteria,
- Study and Living Cost,
- Work Option,
- Living Option,
- After Study Job chances,
- Permanent Residency Option.

Women Cell – GEC Rajkot Activities

Break your Glass Ceiling and Achieve your Goal: Role of Women in Administration

Women Development Cell, Government Engineering College, Rajkot organized various activities during the year. As part of that, a webinar was organized by the Computer and Electronics & Communication (EC) depts. considering the present circumstances of "Work From Home" and "Online Teaching". In addition to the girls students of these two depts, the girls students of Mechanical and Electrical departments also attended this webinar.On 23/08/2020, a seminar on **"Break your Glass Ceiling and Achieve your Goal: Role of Women in Administration"** was organized. Expert **Ms. Shara Bhalara(GAS 2017)**, shared her views on the topic.

The webinar was started with the Welcome Speech by D. H. Buch, member of WDC, Computer Dept. Further, the session was conducted by Ms. Dhara Bhalara, who is presently serving as the Asst. Rural Development Commissioner, Gandhinagar. Ms. Bhalara, 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. It was an interactive session where, students and WDC members placed their queries regarding the difficulties found by the females in handling such duties, types of papers/subjects and work environment. Ms. Bhalara answered all the queries satisfactorily. At the end, the session was concluded by Ms. Prapti Pandya, the member of WDC of EC dept.
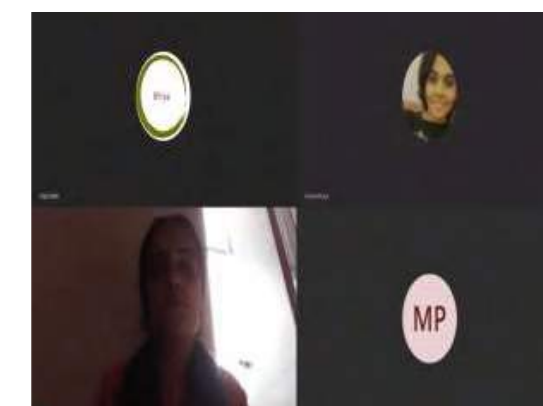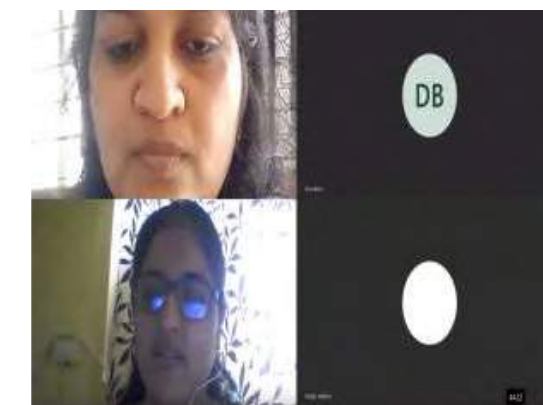
Webinar on Impact of COVID – 19 on Women
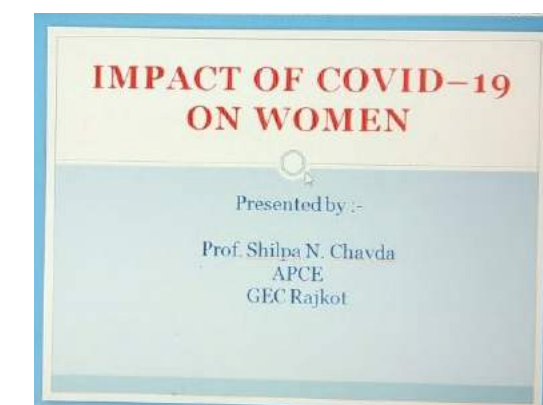
A session on **"Impact of COVID – 19 on women"** under Women development cell was organized by Civil Engineering Department exclusively for girls students on 21st August 2020 at 3:00 pm through online mode in Microsoft teams software. Prof. S. N. Chavda coordinated the event.

Faculty Development Program on IOT

Electronics & Communication Engineering Department of Government Engineering College, Rajkot organized one-week faculty 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

Session overviews:

Session 1: Online Inauguration & Key note speech

Common Inauguration function was organised for 39 ATAL FDPs and participants joined inauguration programme by YouTube Live stream as well as we also shared Webex meeting through Microsoft Team so participants could connect Inauguration programme through Microsoft Team. Keynote speech on Internet of Things (IoT) delivered by Dr. C.H. Vithalani. He discussed elements of IoT, IoT Drivers, IoT forecasting and IoT devices needed for hands-on sessions. He also gave overview of all the sessions which will be delivered during the FDP.
YouTube Link:
    Inauguration: https://youtu.be/ZMFa-Myay3w
    Keynote Speech: https://youtu.be/XBP0qX4O8Fg

Session 2: IoT Architecture

IoT Architecture layers was discussed in depth by Dr. C.S. Thaker during this session. Starting from sensor layer, edge devices, communication layer (Networking), Cloud and application layer were discussed in detail. Overview of Challenges for implementation of IoT was given.
YouTube Link: https://youtu.be/KRDk1XiEp4g

Session 3: Getting familiar with IoT devices, sensors and actuators

Sensor is the first important device for IoT applications. It collects data from the physical world and communicate to cloud so that sensor data can be monitored anywhere from the world. Dr. Dipesh Kamdar described different types of sensors and explained working principle of it.
YouTube Link: https://youtu.be/D3ecRvqGZ2o

Session 4: IoT Protocol stack

There are wide varieties of protocols in different layer of IoT. Difference IoT protocols was discussed by Dr. Chirag Thaker. MQTT, CoAP, LORA, AMQP discussed with Pros and Cons.
YouTube Link: https://youtu.be/BHGf-klfQvs

Session 5: Hands-on session Interfacing of Digital and Analog I/O Devices with NodeMCU, Controlling devices using Mobile application

Interfacing of input and output digital devices and its programming was discussed by Dr. C.H. Vithalani during this session. Controlling of devices with help of Mobile App through Bluetooth and WiFi link was demonstrated with explanation of program and process of uploading program in NodeMCU hardware. Interfacing of sensors and reading analog data from it was also demonstrated and code was explained.
YouTube Link: https://youtu.be/o-CDwE44t4o

To be continued...

Session 6: Acquiring data from sensors Uploading sensor data on cloud, MQTT protocol

Internet of things allows us to view sensor data anywhere from the world and control devices anywhere from the world remotely. Various cloud platforms are there which allows to host sensor data and allows activation of different events. Dr. N.B. Kalani described MQTT protocol in details during this session.
YouTube Link: https://youtu.be/XdV3m7LHLls

Session 7: Industry 4.0

Industrial automation with use of Internet of Things is Industry 4.0. It was explained in details along with philosophy by Dr. G.D. Acharya
YouTube Link: https://youtu.be/wrB_gs6FC_w

Session 8: Python Programming & Introduction of Micro python and Firmware installation on NodeMCU

NodeMCU is low cost IoT device. Participants were informed to purchase this device well in advance so that they can perform experiments at their place. Dr. Jignesh Patoliya demonstrated how to upload MicroPython firmware in NodeMCU hardware.
YouTube Link: https://youtu.be/v7gRlJ5AHGl

Session 9: Hands on sessions for Interactive computing with NodeMCU, Micro python programs

MicroPython programming of NodeMCU session was conducted by Dr. C.H. Vithalani and Prof. Punit Lathiya. MicroPython programs to control devices, read sensor data and upload it on cloud was explained and demonstrated during this session.
YouTube Link: https://youtu.be/1DduXoRqeZo

Session 10: IOT use-cases in Healthcare & Video Analytics domain Industry expert (Mr. Adarsh Parikh, Silvertouch)

Industry expert Mr. Adarsh Parikh, Silvertouch who is working on projects of RTO and other IoT applications delivered this session. Health care applications of IoT was discussed with case studies. Video Analytics used for Driving licence test automation was also discussed during the session
YouTube Link: https://youtu.be/5ROa77PKVr8

Session 11: Building IoT applications using Raspberry PI board

Raspberry PI is another important hardware useful for implementation of IoT. Dr. Dipesh Kamdar and Dr. Dhaval Bhojani explained installation of Raspberry PI operating system in board and explained Python programs on the board.
YouTube Link: https://youtu.be/2DuZ-xQQCPM

Session 12: Simulation Tools for IoT

Processing of reading and analysing Data uploaded on Ubidots and ThingSpeak cloud was shown by Prof. Prashant Mehta during this session. Application developed by Flutter tool is useful for Android as well as iOS platform.
YouTube Link: https://youtu.be/HFuk_U3sWuY

Session 13: Stress Management Session

Stress is the main cause of all disease as well as it is the main cause to achieve desired target. Stress management session was conducted by Dr. Krishna Daiya
YouTube Link: https://youtu.be/xMYlrhA6JOY

Session 14: Case Studies on IoT Industry expert

Various case studies of IoT was described by Industry expert Mr. Pranav Purohit who is working at eInfochip and handling IoT projects of the company. He is handling smart city projects.
YouTube Link: https://youtu.be/t5pSxKrAyCQ

Valedictory and Feedback Session:

Continuous evaluation was conducted during the FDP. Total three online quiz conducted during the FDP. First two quiz were learning quiz just to know whether participants are able to grasp the knowledge shared during the session or not. First two quiz were not made compulsory. However quiz at the end of FPD was compulsory.

Achievements

NCC GECR Band

3rd prize was secured by 18 cadets with the lead of CDT. Mahima Desani on 6th September 2019.

Model United Nations 17th to 20th January 2019

1st prize was secured by CDT. Dhaval Kakkad on international platform of Bali, Indonesia. He confidently represented our country and maintained the dignity and pride on such a huge platform.

Prizes in ISRO Exhibition

ISRO Science Exhibition During science week (24th – 28th February 2020), ISRO organized a science exhibition in which our department viz. Team Fire Safety System(Bhavik Chekhalia, Darshit Vasiyani, Deep Sanghani, Jay Hinsu) and Team Project Lazy(Anand Ramavat, Nishit Makwana,Parshwa Mehta, Vatsal Pande) participated. Out of 795 teams, Team Fire Safety System secured 2nd rank and Team Project Lazy secured 7th position.

GSIRF 2020 Engineering Survey

Government Engineering College Rajkot secured the tenth rank at Gujarat Level, in GSIRF 2020 Engineering Survey

GTU Logo design Competition

EC 2020 batch candidate Bhavin Dhandhukiya secured the third rank in logo design competition held by Gujarat Technological University at University level.

Upcoming Event

Ideathon - 2021

Register Here: http://bit.ly/3nDOPwF

Advisory Committee:

Prof. C.H.Vithalani
Prof. G.J.Vala
Prof. K.B.Rathod
Prof. G.M.Tank
Prof. C.S.Thaker
Prof. B.B.Kuchhadiya
Prof. S.B.Parmar
Prof. D.H.Makwana
Prof. A.M.Joshi

Faculty Coordinators :

Prof. Jay Pandya   (Convener)
Dr.Sanghamitra Bhatt (Chief Editor)
Prof. D.K.Chotaliya   (Member)
Prof. K.B.Vaghela   (Member)
Prof. N.R.Agrawat   (Member)
Prof. M.K.Khuti   (Member)
Prof.P.R.Raval   (Member)
Shri D.V.Shukla   (Member)
Prof. M.D.Titiya   (Member)
Prof. D.N.Panchotiya   (Member)

Student Coordinators :

Core Designer:

Neil Javiya   (Comp.-8th)

Socialmedia handlers/designers:

Vishva Karia   (EC-8th)
Dhruvi Rathod   (EC-8th)
Riyaz Shekh   (Elec.-4th)