

IEEE STUDENT BRANCH

Government Engineering College - Barton Hill, Thiruvananthapuram

(Travancore Hub, IEEE Kerala Section)

SUMMARY OF ACTIVITIES CONDUCTED IN 2020

This report includes all Student Branch activities from January 1, 2020 – January 27, 2021

1. **DLP:** Seminar on Electromagnetics in MIMO Antennas for Future Networks • **Speaker:** Dr. Debdeep Sarkar (Assistant Professor, Indian Institute of Science, Bangalore) • **Date:** 24 January 2020 • **Participants:** 68

OU(s): IEEE APS SBC GECBH, IEEE MTTs SBC GECBH

2. **Workshop:** Sixth Sense Robotics - Two-day workshop on sixth sense robotics with brainwave handled by experts from Anvira Edustation • **Date:** 1 February 2020 • **Participants:** 50

OU(s): IEEE RAS SBC GECBH

3. **Industrial Visit:** Liquid Propulsion Systems Centre, Valiyamala, Thiruvananthapuram • **Date:** 6 February 2020 • **Participants:** 23

OU(s): IEEE SB GECBH



IEEE STUDENT BRANCH
GOVERNMENT ENGINEERING COLLEGE - BARTON HILL



INDUSTRIAL VISIT
LIQUID PROPULSION SYSTEMS CENTRE

www.gecbieee.org

2nd FEBRUARY, 2020
Valiyamala, Trivandrum

23
PARTICIPANTS

4. **Workshop:** Git Corner - A basic seminar on "Git & GitHub" followed by a hands-on session • **Speaker:** Ms. Joann Mary Varghese (Chairperson, IEEE CS SBC GECBH 2019-2020) • **Date:** 14 February 2020 • **Participants:** 45

OU(s): IEEE CS SBC GECBH

5. **Workshop:** EZERO - Intermediate level training for developing biped robots with basic functionalities handled by experts from Anvira Edustation • **Date:** 15 February 2020 • **Participants:** 360

OU(s): IEEE SB GECBH

6. **Workshop:** CEREBRO - Intermediate level training for developing brainwave-controlled robots handled by experts from Anvira Edustation • **Date:** 22 February 2020 • **Participants:** 385

OU(s): IEEE SB GECBH

STB64271: Government Engineering College - Barton Hill

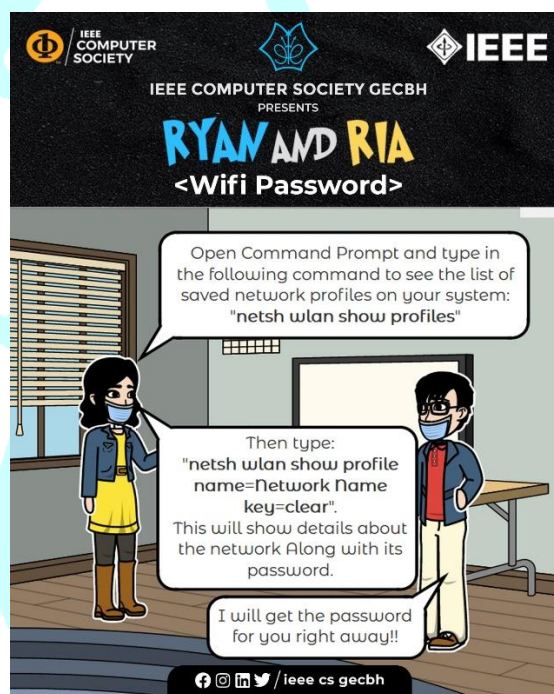
gecbieee@gmail.com | www.gecbieee.org | www.facebook.com/gecbieee | www.instagram.com/ieeegecbh

7. **Workshop:** Coder's Clan - A basic session on "Programming with Python" • **Speaker:** Mr. Karun Krishnan (Secretary, IEEE CS SBC GECBH 2019-2020) • **Date:** 24 February 2020 • **Participants:** 23
OU(s): IEEE CS SBC GECBH

8. **Contest:** Tech Quiz - Quiz competition conducted as part of the National Science Day 2020 in association with IEEE Techsortium exclusively for IEEE Members • **Date:** 28 February 2020 • **Participants:** 24
OU(s): IEEE SB GECBH

9. **Initiative:** Open Discussion Forum - Introducing dedicated space in the SB website to discuss about the socially relevant issues that might need attention • **Date:** 26 March 2020 • **Participants:** 36
OU(s): IEEE SB GECBH

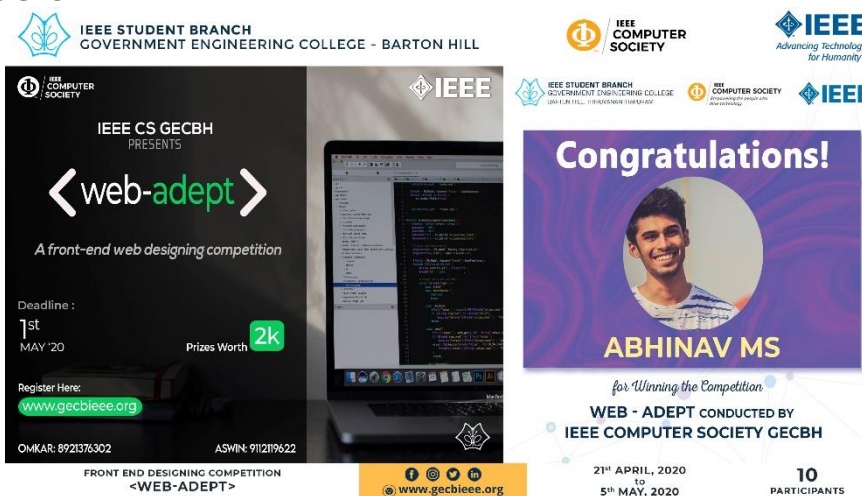
10. **Initiative:** Ryan & Ria - A weekly comic series that provides useful computer hacks, tips and tricks in a fun format using comic characters that is easy to understand • **Date:** 29 March 2020 • **Participants:** NA
OU(s): IEEE CS SBC GECBH



11. **Webinar:** Big Data - An online session covering the basics of Big Data, introducing the students to the world of data handling. It was conducted in collaboration with Women in Computing (WiC) chapter of IEEE CS SBC GECBH • **Speaker:** Mr. Midhun M (Data Analyst at Hashware Technology) • **Date:** 9 April 2020 • **Participants:** 63
OU(s): IEEE CS SBC GECBH

12. **Initiative:** Automatic Hand wash Assembly - Call to make working models of automatic hand wash assembly by student branch chairman in an attempt to fight against COVID 19 • **Date:** 13 April 2020 • **Participants:** NA
OU(s): IEEE SB GECBH

13. **Contest:** <Web-Adept> - A front-end designing competition where the participants had to design a website for a Tech Start-up Company, following all the given criteria and rules within the timeframe • **Date:** 21 April 2020 • **Participants:** 15
OU(s): IEEE CS SBC GECBH



14. **Contest:** Essay Writing Challenge - Essay Writing Competition where the participants were free to choose a theme from the given set • **Date:** 24 April 2020 • **Participants:** 20
OU(s): IEEE WIE AG GECBH

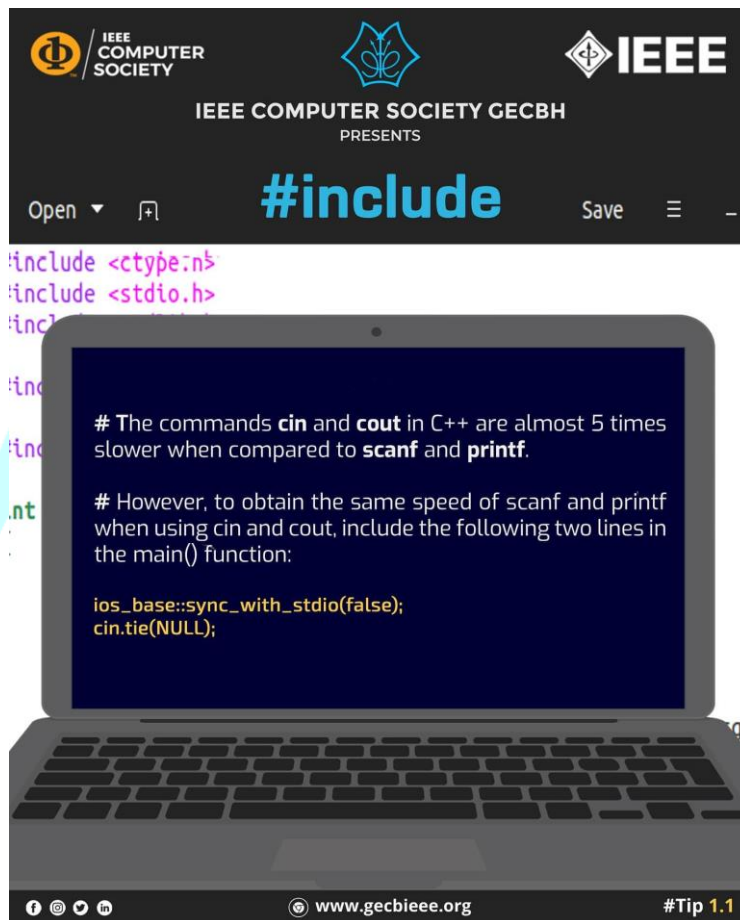
15. **Contest:** ABCD- Any Body Can Debug - A debugging competition, where 15 questions were provided with a time duration of 2 hours • **Date:** 9 May 2020 • **Participants:** 62
OU(s): IEEE CS SBC GECBH



16. **Contest:** The Quizens - Mother's Day special quiz on the topic "Women and Engineering" • **Date:** 10 May 2020 • **Participants:** 42
OU(s): IEEE WIE AG GECBH

17. **Webinar:** COVID19 Epidemic Modelling - An online session giving insight on how the trajectory of the COVID 19 pandemic is tracked using models and simulators • **Speaker:** Dr. Birenjith P S (Branch Counselor, IEEE SB GECBH) • **Date:** 15 May 2020 • **Participants:** 50
OU(s): IEEE SB GECBH

18. **Initiative:** #Include - A weekly series that provides hacks and shortcuts related to programming languages like C and C++ • **Date:** 17 May 2020 • **Participants:** NA
OU(s): IEEE CS SBC GECBH



19. **Webinar:** Digital Content Creation - An online interactive session touching upon the basics of creation of useful and relevant content for various online platforms • **Speaker:** Mr. Sreeram Venkitesh (Youtuber and Content Team member at Tinker Hub) • **Date:** 18 May 2020 • **Participants:** 117
OU(s): IEEE CS SBC GECBH

20. **Initiative:** KNOWBOTS - Articles from IEEE Spectrum, which are related to Robotics and automation, in easily digestible form • **Date:** 18 May 2020 • **Participants:** NA
OU(s): IEEE RAS SBC GECBH



21. **Webinar:** Figuring out your Career and Learning path - Discussion on how to approach career life in post COVID-19 period • **Speaker:** Mr. Moosa Mehar M P (Co-founder, TinkerHub Foundation) • **Date:** 19 May 2020 • **Participants:** 77
OU(s): IEEE RAS SBC GECBH

22. **Initiative:** Infobytes 2.0 - A weekly series that provides information about some latest technology through a short video by including animations and an audio description • **Date:** 22 May 2020 • **Participants:** NA
OU(s): IEEE CS SBC GECBH

SAMPLE VIDEO

23. **DLP:** Seminar on RF-MEMS for Future Wireless Communications • **Speaker:** Mr. Ayan Karmakar (Semi-Conductor Laboratory (SCL), Dept. of Space, Govt. of India, Chandigarh) • **Date:** 25 May 2020 • **Participants:** 350
OU(s): IEEE APS SBC GECBH, IEEE MTT-S SBC GECBH

24. **OFFICIAL EVENT:** Annual General Meeting (AGM) 2020 • **Guests:** Dr. Suresh K (Principal, GEC Barton Hill), Dr. Birenjith P.S. (Branch Counselor, IEEE SB GECBH) • **Date:** 27 May 2020 • **Participants:** 80
OU(s): IEEE SB GECBH

25. **DLP:** Seminar on Modern Avionics Systems in Aircrafts • **Speaker:** Dr. Russel Paul (Assistant General Manager, Engineering SS, Air India Engineering Services Ltd) • **Date:** 29 May 2020 • **Participants:** 170
OU(s): IEEE APS SBC GECBH, IEEE MTT-S SBC GECBH

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IEEE
MTT-S

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GOVERNMENT ENGINEERING COLLEGE BARTON HILL
IEEE Microwave Theory and Techniques Society Kerala Chapter
IEEE APS & MTT-S Student Branch Chapter GEC Barton Hill
separately

OPEN TO ALL
PRE-REGISTRATION REQUIRED

WEBINAR
ON
MODERN AVIONICS SYSTEMS
IN AIRCRAFTS

Presented by
Dr. Paul Russel U.S.
Senior Assistant General Manager
Air India Engineering Services Limited
Thiruvananthapuram

May 29 2:00 PM - 4:00 PM (IST)

FREE REGISTRATION / LIMITED SEATS ONLY
BOOK YOUR SEAT BY MAY 28, 11:59 PM (IST)

CONTACT
Dr. Paul Russel U.S. +91 9577000117
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ADVANCED TECHNOLOGIES

ON-BOARD ADVANCED
SYSTEMS (OAS)

AVIONICS
SYSTEMS
IN
AIRCRAFTS

WEBINAR
MODERN AVIONICS SYSTEMS IN AIRCRAFTS

25th MAY, 2020
Google Meet

101
PARTICIPANTS

www.gecbieee.org

26. **Webinar:** Ethical Hacking - An online session covering the basics of Cybersecurity and Ethical Hacking with a detailed insight on hackers • **Speaker:** Mr. Vivekanand Merugu (Top SOC Analyst, CEO at VG Marketing) • **Date:** 30 May 2020 • **Participants:** 145
OU(s): IEEE CS SBC GECBH

27. Initiative: KeyNote - A monthly newsletter that contains articles related to technology from various IEEE magazines, articles written by the student members and also a puzzle section. It also updates the students about the past and upcoming events of our SBC • **Date:** 1 June 2020 • **Participants:** NA
OU(s): IEEE CS SBC GECBH



KeyNote
IEEE CS GEC Barton Hill
Your Key Into Our Tech World

1st NOVEMBER 2020



06

OPPORTUNITIES

Send in your answer at
ieeescgcbh@gmail.com

Intel Creating Cryptographic Codes That Quantum Computers Can't Crack

The world will need a new generation of cryptographic algorithms once quantum computing becomes powerful enough to crack the codes that protect everyone's digital privacy. An Intel team has created an improved version of such a quantum-resistant cryptographic algorithm that could work more efficiently on the smart home and industrial devices making up the Internet of Things. The Bit-flipping Key Encapsulation (BIKE) provides a way to create a shared secret that encrypts sensitive information exchanged between two devices. The encryption process requires computationally complex operations involving mathematical...

New Stent-like Electrode Allows Humans to Operate Computers With Their Thoughts:

Two Australian men with neuromuscular disorders regained some personal independence after researchers implanted stent-like electrodes in their brains, allowing them to operate computers using their thoughts. This is the first time such a device, dubbed a "stentrode," has been implanted in humans, according to its inventors. The system also makes real-world use of brain-computer interfaces (BCIs)—devices that enable direct communication between the brain and a computer—more feasible. Researchers have been experimenting for over 15 years with sensing human brain activity and converting it directly into computer commands. Most of these systems involve open brain surgery and leave hardware protruding from the head so that the systems can be studied in labs. The stentrode offers a less intrusive way to get electrodes to the brain.

Metal Spheres Swarm Together to Create Freeform Modular Robot:

FreeBOT is a hybrid of the two robotic concepts—Modular robot and swarm robots. Each FreeBOT module consists of an iron sphere, inside of which is a little vehicle of sorts with two motorized wheels and a permanent magnet. The magnet keeps the vehicle stuck to the inside of the sphere, and when the wheels spin, it causes the shell to roll forward or backward. Driving the wheels independently turns the shell. A single module can do a fair amount on its own, with good mobility and some neat tricks around ferromagnetic surfaces.

PAST EVENTS

- Annual general body meeting
- Cyphermash- a 12 hour coding competition
- Zenith- a 5 day event conducted as a part of space month
 - A talk on a Energy and its emerging scenario
 - A talk on atmosphere and space research
 - Parley- a space film based panel discussion
 - 12 Parsecs- a space based quiz competition
 - A talk on the Basics of rockets and orbital mechanics

UPCOMING EVENTS

- Talk on Microservices Architecture

UMANG

To sustain the people throughout their digital journey, a Unified Mobile Application for New Age Governance (UMANG) has been launched. It has brought government service to the fingertips of citizens. More than 10 million users have downloaded this app since its launch in November 2017. In line with the objective to make one person e-literate in every household in the country, two schemes were launched - NDLM and DISHA. The sustainability of the digital economy rests upon its resilience and security. The Cyber Swachhta Kendra (Botnet clearing and malware analysis centre) has been set up to provide alerts to users for preventing losses of financial and other data. This aims to create an inclusive, safe and secure cyberspace for people.


Using AI to convert ancient maps into Satellite-Like images

Ancient maps give us a slight glimpse of how landscapes looked centuries ago. But the question arises on what we would see if we looked at these older maps with a modern lens? A machine learning algorithm that could transform old maps into Google satellite images was developed. This informed people on how land usage has changed over time, including the impacts of social and economic urbanization on them. An existing AI tool called Pix2pix, which relies on two neural networks, was used for this realization. The first one creates images based on the input set, while the second network decides whether the generated image is a fake or not. The networks are then trained to fool each other, and ultimately create realistic-looking images based on the provided historical data.


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28. ExCom Training: IEEE LINK's SB ExCom Training - A training session for all IEEE ExCom members of GEC Barton Hill SB regarding their roles as a team player • **Speaker:** Mr. Nandan S (Chair, Student Activities Committee, IEEE Kerala Section) • **Date:** 3 June 2020 • **Participants:** 45
OU(s): IEEE SB GECBH, IEEE LINK



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IEEE LINK

ExeCom Training
For IEEE SB GEC Barton Hill

3 June 2020 8:00 PM

Nandan S
Chair - Student Activities Committee
IEEE Kerala Section

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Qualities that an SB Leader Needs

- Knowledge
- Motivation
- Vision
- Ability to delegate work
- Willingness to contribute beyond primary responsibilities
- Willingness to work as a team member
- Ability to motivate and empower the team
- Regular and Continuous Action

EXCOM TRAINING

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3rd JUNE, 2020
Google Meet Platform

45
PARTICIPANTS

29. **Contest:** MEME Contest - X Æ A-X12 - This informal event had participants send an original meme created by them which were published on the Instagram Story of IEEE CS GECBH page and the best one was selected through a polling • **Date:** 5 June 2020 • **Participants:** 11

OU(s): IEEE CS SBC GECBH

30. **Webinar:** Opportunities for a first-year engineering student - A session organised for first-year engineering students along with school going students to give an insight into the fields of engineering, scope of research, higher studies options and the importance of getting admission in premier institutions • **Speaker:** Mr. Adhithyaa G (Chair, IEEE Student Branch, GEC Barton Hill) • **Date:** 6 June 2020 • **Participants:** 78

OU(s): IEEE CS SBC GECBH

IEEE STUDENT BRANCH
GOVERNMENT ENGINEERING COLLEGE - BARTON HILL

IEEE COMPUTER SOCIETY

IEEE
Advancing Technology
for Humanity

A WEBINAR ON
**THE OPPORTUNITIES OF A FIRST-YEAR
ENGINEERING STUDENT**

Adhithyaa G
Chairman, IEEE Student Branch GECBH,
3rd year Mechanical Student,
Four time 10 pointer in semester exams.

8th June 2020 7:00 - 8:00 PM

Register at: bit.ly/ieeegecbh

CONTACT:
Thirya - +91 948502862
Aarthika - +91 984672553

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WEBINAR ON
OPPORTUNITIES FOR A FIRST YEAR ENGINEERING STUDENT

6th JUNE, 2020
Online platform-Google Meet

78
PARTICIPANTS

31. **Webinar:** Introduction to Machine Learning - An online session on foundations of Machine Learning & problem solving • **Speaker:** Mr. Venugopal Pai (Senior Research Engineer at IIT Bombay) • **Date:** 10 June 2020

• **Participants:** 236

OU(s): IEEE RAS SBC GECBH

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IEEE Robotics & Automation Society

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WEBINAR
ON
**INTRODUCTION TO
MACHINE LEARNING**

OPEN TO ALL
PRE-REGISTRATION REQUIRED

Handled by
Venugopal Pai
Senior Research Engineer,
Indian Institute of Technology, Bombay

10th June 2020 7:30 PM - 8:30 PM

FREE REGISTRATION (LIMITED SEATS ONLY)

CONTACT:
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Google Meet

WEBINAR ON
INTRODUCTION TO MACHINE LEARNING

10th JUNE, 2020
on Google Meet

236
PARTICIPANTS

32. **Mentorship:** Peer to Peer Series - An insight into the domain of RF and Microwave engineering for juniors

• **Speaker:** Ms. Bhavana S Nair (Former Chair, IEEE WiE AG GECBH) • **Date:** 13 June 2020 • **Participants:** 37

OU(s): IEEE APS SBC GECBH, IEEE MTT SBC GECBH

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33. **Webinar:** Tips to Power up your Resume - An online session done in collaboration with the ISTE Student chapter of GEC Barton Hill, on the importance of resume/CV in our professional life and how to prepare a best one • **Speaker:** Mrs. Devi Raj S (Coordinator of Insight Organization, Associate Engineer of L&T Technology Services) • **Date:** 13 June 2020 • **Participants:** 145

OU(s): IEEE SB GECBH

34. **Initiative:** Informative Short Film - as part of World Blood Donor's Day to celebrate the individuals who donate blood & encourage more people to start donating • **Date:** 14 June 2020 • **Participants:** NA

OU(s): IEEE SB GECBH

35. **Webinar:** UI - UX Design - An online session giving an introduction about user interface and user design and their importance in this current digital age • **Speaker:** Mr. Ganesh Sekhar (UI/UX Intern at SecurityAdvisor)

• **Date:** 21 June 2020 • **Participants:** 205

OU(s): IEEE CS SBC GECBH

36. **Webinar:** Introduction to Micro & Nanotechnology - An online session covering the basics, applications & opportunities of MNT • **Speaker:** Mr. Arjun B S (Ph.D. Scholar in Biomedical Robotics and MEMS, IISc Bangalore) • **Date:** 27 June 2020 • **Participants:** 240

OU(s): IEEE RAS SBC GECBH

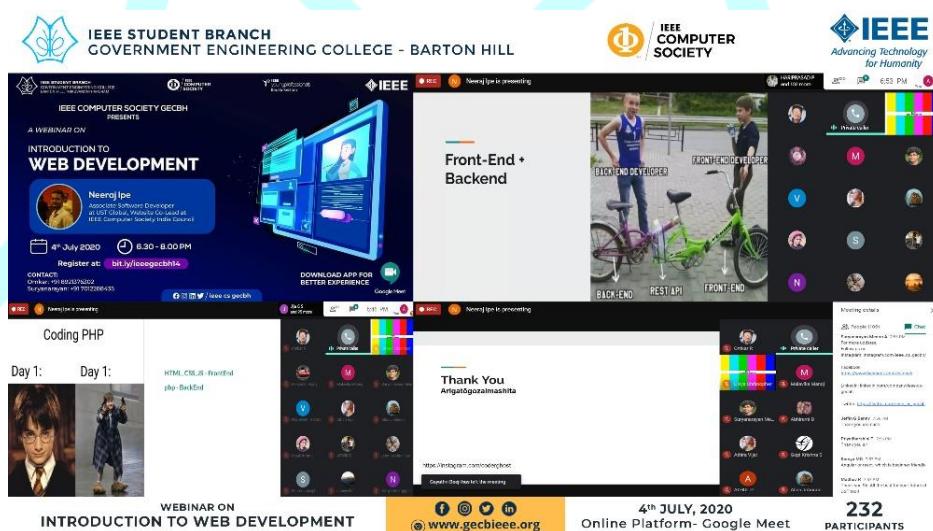
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37. **Initiative:** Pip Install - A peer or group learning program that allows to understand the basics of python through an online platform • **Date:** 28 June 2020 • **Participants:** 60
OU(s): IEEE CS SBC GECBH

38. **Contest:** Shutter Up - An online photography competition based on the theme 'Quarantine Moments' • **Date:** 2 July 2020 • **Participants:** 13
OU(s): IEEE SB GECBH

39. **Webinar:** Introduction to Web Development - Organized in association with IEEE Young Professionals Kerala Section. The speaker talked about various languages and IDEs used in this field and shared some useful tricks and tips to the participants • **Speaker:** Mr. Neeraj Ipe (Associate Software Developer at UST Global & Website co-head at IEEE Computer Society India Council) • **Date:** 4 July 2020 • **Participants:** 232
OU(s): IEEE CS SBC GECBH, IEEE YP Kerala Section



40. **Contest:** TRILINEUM: Hackathon - A 12 hour online individual hackathon competition using Tinkercad simulations • **Date:** 10 July 2020 • **Participants:** 30
OU(s): IEEE SB GECBH, IEEE SB UKFCET, IEEE SB MITS

41. **Contest:** TechX: Best Engineer - A talent hunt competition conducted as part of TechX in which "the best engineer" among the participants was selected through three rounds • **Date:** 12 July 2020 • **Participants:** 126
OU(s): IEEE SB GECBH, IEEE Travancore Hub

42. **Contest:** RF-Minds Quiz - Online quiz competition on Antennas, Microwave & RF • **Date:** 18 July 2020 • **Participants:** 219
OU(s): IEEE APS SBC GECBH, IEEE MTT SBC GECBH

43. **Contest:** TRILINEUM: Appathon - A five-day application development competition (front end & back end) based on a socially relevant theme provided • **Date:** 19 July 2020 • **Participants:** 24
OU(s): IEEE SB GECBH, IEEE SB UKFCET, IEEE SB MITS

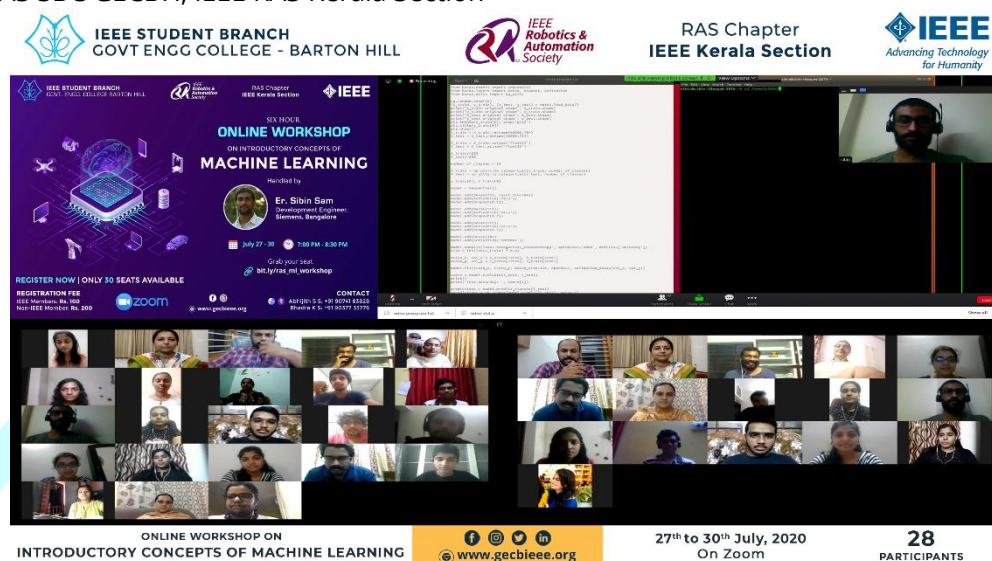


44. **Webinar:** IEEEExtreme: A complete walk - through - A detailed description about IEEEExtreme were given by the speakers, stressing on the importance of IEEEExtreme coding competition and gave a quick glance about this year's competition • **Speaker:** Ms. Thaniya B Nair & Mr. Gokul CM (Campus Ambassadors of IEEEExtreme14.0) • **Date:** 25 July 2020 • **Participants:** 25

OU(s): IEEE CS SBC GECBH

45. **Workshop:** Introductory Concepts of Machine learning - A six-hour online workshop on the Introductory concepts of Machine Learning conducted in collaboration with IEEE RAS Kerala Section • **Speaker:** Er. Sibin Sam (Development Engineer in Siemens, Bangalore) • **Date:** 27 July 2020 • **Participants:** 28

OU(s): IEEE RAS SBC GECBH, IEEE RAS Kerala Section



46. **Contest:** Kreative - Tech doodling competition based on the theme "Lockdown & Internet" • **Date:** 30 July 2020 • **Participants:** 11

OU(s): IEEE WiE AG GECBH, IEEE CS SBC GECBH

47. **Contest:** TRILINEUM: Capture the Flag - A two-day event to find the loopholes to crack the code using certain hacking techniques • **Date:** 1 August 2020 • **Participants:** 50

OU(s): IEEE SB GECBH, IEEE SB UKFCET, IEEE SB MITS

48. **Contest:** Zircon Pursuit - Online treasure hunt competition • **Date:** 6 August 2020 • **Participants:** 135

OU(s): IEEE CS SBC GECBH

49. **Workshop:** Introduction to Adobe Photoshop - A comprehensive tutorial workshop on how to use Adobe Photoshop effectively to create lively posters • **Speaker:** Mr. Omkar Surve (Vice Chair, IEEE CS SBC GECBH) • **Date:** 7 August 2020 • **Participants:** 115

OU(s): IEEE APS SBC GECBH, IEEE MTT SBC GECBH

50. **Contest:** Collodium 1.0 - Online treasure hunt based on Android mobile games conducted in collaboration with GADS startup • **Date:** 16 August 2020 • **Participants:** 160

OU(s): IEEE SB GECBH



51. **Webinar:** Her: Beyond the limits - Talk 1 - An interactive session sharing experiences as a female Indian writer • **Speaker:** Khyrunnisa A (Indian Author) • **Date:** 18 August 2020 • **Participants:** 177
OU(s): IEEE WIE AG GECBH

52. **DLP:** Seminar on Antennas for UWB Channel Modelling & Body Centric Wireless Communication Services - As part of Women in RF talk series • **Speaker:** Dr. Debarati Ganguly (Postdoctoral Research Fellow, RMC Canada) • **Date:** 20 August 2020 • **Participants:** 246
OU(s): IEEE APS SBC GECBH, IEEE MTT-S SBC GECBH

53. **Workshop:** Introduction to LaTeX Software - An intermediate level online session on document preparation using LaTeX software • **Speaker:** Dr. D. Bijulal (Professor and Head, Department of Mechanical Engineering, GEC Barton Hill) • **Date:** 23 August 2020 • **Participants:** 35
OU(s): IEEE SB GECBH

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IEEE
Advancing Technology for Humanity

ONLINE SESSION
ON INTRODUCTION TO
LaTeX
A HIGH-QUALITY DOCUMENT PREPARATION SYSTEM

Handled by
Dr. D. Bijulal
Professor & Head,
Dept. of Mechanical Engineering,
GEC Barton Hill

August 23 - 24 7:00 PM - 8:00 PM

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WEBINAR
INTRODUCTION TO LaTeX SOFTWARE

23rd & 24th AUGUST, 2020
Google Meet Platform

35 PARTICIPANTS

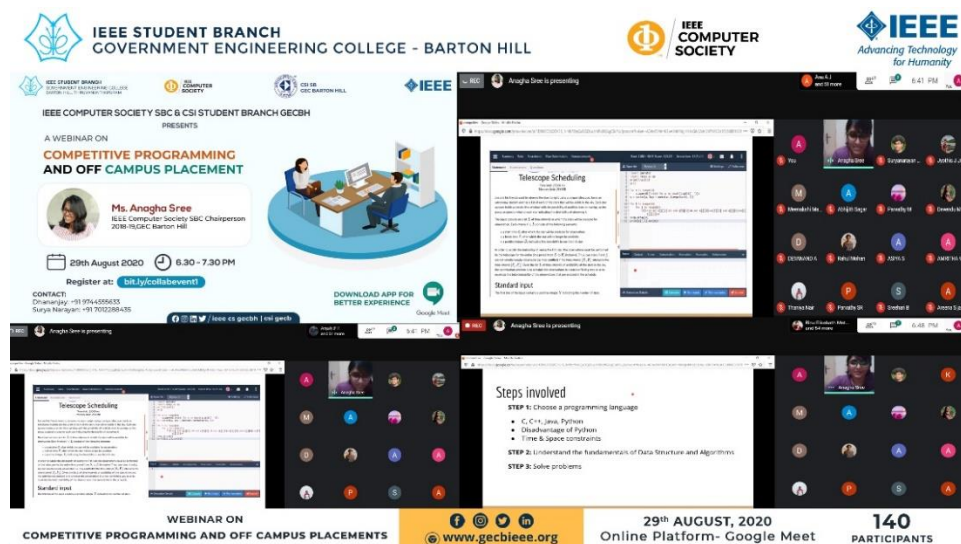
Participants: Nanya Pm, Rosini PB, Prajeesh P, Shafna N, pushpa thakur, Sindhu Miraj

54. **Contest:** Brain Rant Series: War Zone I - A quiz competition for the students of Electronics and Communications Department • **Date:** 27 August 2020 • **Participants:** 22
OU(s): IEEE SB GECBH

55. **Contest:** Brain Rant Series: War Zone II - A quiz competition for the students of Mechanical Engineering Department • **Date:** 28 August 2020 • **Participants:** 35
OU(s): IEEE SB GECBH

56. **Contest:** Brain Rant Series: War Zone III - A quiz competition for the students of Electrical and Electronics Engineering • **Date:** 29 August 2020 • **Participants:** 20
OU(s): IEEE SB GECBH

57. **Webinar:** Competitive Programming and Off-campus Placements - Event conducted in collaboration with Computer Society of India SB GEC Barton Hill. The speaker gave an overview on how to approach competitive coding and the various ways in which it can be practiced • **Speaker:** Ms. Anagha Sree (Chairperson, IEEE Computer Society SBC GEC Barton Hill - 2018-19) • **Date:** 29 August 2020 • **Participants:** 140
OU(s): IEEE CS SBC GECBH



58. **DLP:** Seminar on Design of Microwave Filters • **Speaker:** Dr. Basudeb Ghosh (Associate Professor, Dept of Avionics, IIST, Trivandrum) • **Date:** 29 August 2020 • **Participants:** 162
OU(s): IEEE APS SBC GECBH, IEEE MTT SBC GECBH

59. **DLP:** Seminar on Flexible, Wearable, Disposable Wireless Communication & sensing system through Additive Manufacturing • **Speaker:** Dr. Atif Shamim (Associate Professor, Electrical Engineering Program, King Abdullah University of Science and Technology, USA) • **Date:** 29 August 2020 • **Participants:** 210
OU(s): IEEE APS SBC GECBH, IEEE MTT SBC GECBH

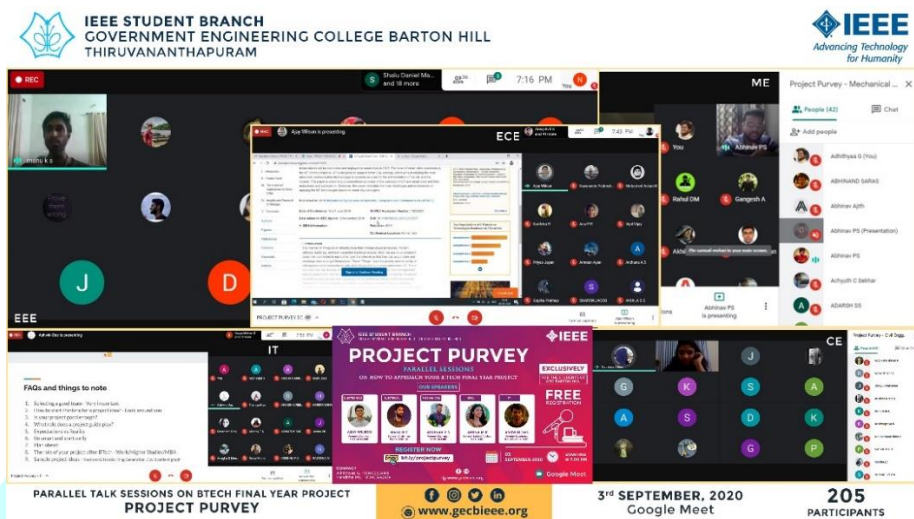
60. **Contest:** Brain Rant Series: War Zone IV - A quiz competition for the students of Civil Engineering Department • **Date:** 2 September 2020 • **Participants:** 18
OU(s): IEEE SB GECBH

61. **Contest:** Brain Rant Series: War Zone V - A quiz competition for the students of Information Technology Department • **Date:** 3 September 2020 • **Participants:** 24
OU(s): IEEE SB GECBH

62. **Initiative:** Endurance Talk Series - Virtual sessions handled by 26 International speakers conducted in association with Climatehood Foundation to spread awareness in the field of Inclusive Sustainable Growth & India • **Date:** 1 September 2020 • **Participants:** 938
OU(s): IEEE SB GECBH, IEEE Kerala Section, IEEE LINK

63. **Parallel Discussion:** PROJECT PURVEY - Five parallel sessions were conducted simultaneously to provide guidance on how to approach B.Tech final year project • **Speakers:** Mr. Ajay Wilson (ECE; Former Chairman, IEEE SB GECBH), Mr. Manu K. S. (EEE; Former Chairman, ISTE GECBH Student Chapter), Mr. Abhinav P. S. (ME; Former Chairman, ASME GECBH), Ms. Amina M K (CE; Former ExCom Advisor, ICI GECBH) & Mr. Ashwin Das (IT; Former Secretary, IEEE CS SBC GECBH). • **Date:** 3 September 2020 • **Participants:** 205

OU(s): IEEE SB GECBH



64. **Contest:** MakeltLayered - Conducted in collaboration with IEEE CS Kerala Section. It was a unique poster designing competition where the participants were free to choose a theme but use only the resources provided by the organisers • **Date:** 13 September 2020 • **Participants:** 27

OU(s): IEEE CS SBC GECBH, IEEE CS Kerala Section

65. **Contest:** Circuitology - An online competition on building an electronic circuit for a given waveform, conducted as part of SB Anniversary Celebration • **Date:** 14 September 2020 • **Participants:** 62

OU(s): IEEE RAS SBC GECBH

66. **Contest:** The.One.With.The.Trivia - Online quiz based on the all-time favourite sitcom - FRIENDS, conducted as part of SB Anniversary Celebration • **Date:** 15 September 2020 • **Participants:** 194

OU(s): IEEE APS SBC GECBH

67. **Contest:** Hackware - A simulation based hackathon on socially relevant problems conducted as part of SB Anniversary Celebration • **Date:** 16 September 2020 • **Participants:** 22

OU(s): IEEE RAS SBC GECBH

68. **Contest:** Sequel Extract - A five-day long algorithm-based competition testing the coding skills of participants, conducted as part of SB Anniversary Celebration • **Date:** 17 September 2020 • **Participants:** 42

OU(s): IEEE CS SBC GECBH

69. **OFFICIAL EVENT:** MTTs Chapter Inauguration - Organised as part of IEEE MTT-S SBC GECBH inaugural function • **Speaker:** Dr. Shiban Koul (IIT Delhi) • **Date:** 17 September 2020 • **Participants:** 140

OU(s): IEEE MTTs SBC GECBH

70. **DLP:** Seminar on Role of MTT-S in future of Engineering students - Formal inauguration of the IEEE MTTs Student Branch Chapter of GEC Barton Hill • **Date:** 17 September 2020 • **Participants:** 152

OU(s): IEEE MTTs SBC GECBH

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71. **DLP:** Seminar on Energy efficient simultaneous wireless backscatter and power comm. - Organised as part of IEEE MTT-S SBC GECBH inaugural function • **Speaker:** Dr. Nuno Borges Carvalho (Universidade de Aveiro, Portugal) • **Date:** 17 September 2020 • **Participants:** 120
OU(s): IEEE MTT-S SBC GECBH

72. **Student Conclave:** All Kerala Antenna Propagation Society Student Conclave • **Speaker:** Dr. Yahia M M Antar (Professor of Electrical and Computer Engineering, RMC Canada), Dr. P Mohanan (Cochin University of Science & Tech. Microwave Radar and Antenna lab, Cochin University, Kerala), Dr. Saptarshi Ghosh (Assistant Professor, Indian Institute of Technology Indore), Dr. Jawad Siddiqui (Radiophysics and Electronics-University of Calcutta), Dr. Chinmoy Saha (Chair, IEEE MTT-S Kerala Section), Dr. Debdeep Sarkar (Assistant Professor, Indian Institute of Science, Bangalore), Dr. Nasimuddin (Research and Development (Antenna System) at Institute for Infocomm Research), Mr. Sandeep Sankar Roy • **Date:** 18 September 2020 • **Participants:** 450
OU(s): IEEE APS SBC GECBH



73. **Contest:** Elevator Pitch - Idea pitching event conducted as part of SB Anniversary Celebration where participant had to sell product within 30 seconds • **Date:** 19 September 2020 • **Participants:** 32
OU(s): IEEE WIE AG GECBH

74. **DLP:** Seminar on Electrically Small Antennas - Challenges and solutions while dealing with electrically small antennas • **Speaker:** Dr. Sanghamitra Das (Research Assistant, Dept of Electrical and Computer Engineering, University of Alberta) • **Date:** 19 September 2020 • **Participants:** 126
OU(s): IEEE APS SBC GECBH, IEEE MTT-S SBC GECBH

75. **Contest:** Colludium 2.0 - A sequel of the online treasure hunt based on Android mobile games in collaboration with GADS startup conducted as part of SB Anniversary Celebration • **Date:** 20 September 2020 • **Participants:** 132
OU(s): IEEE SB GECBH

76. **Contest:** Conqueror of Feuds - Dual round panel discussion competition conducted as part of SB Anniversary Celebration • **Date:** 21 September 2020 • **Participants:** 33
OU(s): IEEE WIE AG GECBH

77. **Workshop:** Introduction to MATLAB - Online interactive session that dealt with MATLAB programming and plottings organised as part of SB Anniversary Celebration • **Speaker:** Mr. Vishal M J (Assistant Professor, Department of Electrical and Electronics Engineering, GEC Barton Hill) • **Date:** 21 September 2020 • **Participants:** 52
OU(s): IEEE SB GECBH

The image shows a registration page for an online session on MATLAB and Simulink. The page is titled "ONLINE SESSION ON INTRODUCTION TO MATLAB & SIMULINK" and is hosted by Vishal M J, Assistant Professor, Dept. of Electrical & Electronics Engineering, GEC Barton Hill. The session is scheduled for September 21 & 23, from 7:00 PM to 8:00 PM. The registration fee is Rs. 100/-. The page also mentions "100% GUARANTEED REFUND" and "REGISTER NOW | ONLY 40 SEATS AVAILABLE". Below the registration details, there is a list of participants: VISHAL M J, Rahulkrishnan R, Gangesh A, Shalu Daniel Maret, Fathima Sadiya E S, and Sanjay Manikuttan. The session is titled "WEBINAR INTRODUCTION TO MATLAB AND SIMULINK" and is scheduled for "21st & 23rd SEPTEMBER, 2020" on the "Google Meet Platform" with "52 PARTICIPANTS".

78. **Contest:** Get Set Google - One-hour Googling quiz competition conducted as part of SB Anniversary Celebration • **Date:** 22 September 2020 • **Participants:** 193
OU(s): IEEE SB GECBH

79. **Contest:** Let's Code MATLAB - Online coding competition on MATLAB conducted as part of SB Anniversary Celebration • **Date:** 24 September 2020 • **Participants:** 58
OU(s): IEEE MTT SBC GECBH

80. **Webinar:** Conclave Talk 1 - A talk on "Why worry about power consumption in Integrated Circuits?" • **Speaker:** Mr. Manil Dev Gomony (Researcher at Nokia Bell Labs & Guest Lecturer at EUT, Netherlands) • **Date:** 25 September 2020 • **Participants:** 38
OU(s): IEEE SB GECBH

81. **DLP:** Conclave Talk 2 - A talk on "Insight on Human Spaceflight Mission" • **Speaker:** Dr. V R Lalithambika (Distinguished Scientist & Director, Human Space Programme, ISRO) • **Date:** 26 September 2020 • **Participants:** 78
OU(s): IEEE SB GECBH

The image shows a registration page for a webinar titled "INSIGHT ON HUMAN SPACEFLIGHT MISSION". The speaker is Dr. V. R. LALITHAMBIKA, Distinguished Scientist & Director, Directorate of Human Space Programme, ISRO Headquarters, Former Deputy Director, VSSC Thiruvananthapuram. The session is scheduled for September 26, 11:00 AM (IST). The registration fee is Rs. 100/-. The page also mentions "100% GUARANTEED REFUND" and "REGISTER NOW | OPEN TO ALL". Below the registration details, there is a list of participants: Nanditha M.G. (You), Adithyas G, Lalithambika Vr, and ananya bs. The session is titled "15A CONCLAVE TALK #2 INSIGHT ON HUMAN SPACEFLIGHT MISSION" and is scheduled for "26th SEPTEMBER, 2020" on the "Google Meet Platform" with "78 PARTICIPANTS".

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82. **Webinar:** Conclave Talk 3 - A talk on "Industry's New Normal" • **Speaker:** Mr. Vishnu R G (Group Manager, Digital Practise, Infosys Limited) • **Date:** 26 September 2020 • **Participants:** 54
OU(s): IEEE SB GECBH

83. **DLP:** Conclave Talk 4 - A talk on importance of miniaturization and integration of sensors and other modules in space missions • **Speaker:** Dr. Goutham Chattopadhyay (Scientist, Jet Propulsion Laboratory, NASA) • **Date:** 26 September 2020 • **Participants:** 158
OU(s): IEEE SB GECBH, IEEE APS SBC GECBH, IEEE MTT SBC GECBH

84. **Webinar:** Conclave Talk 5 - A talk on "How to be a damn good engineer in life" • **Speaker:** Mr. Amaldev Venugopal (Senior Engineering Manager, Tata Centre for Technology and Design, IIT Bombay) • **Date:** 27 September 2020 • **Participants:** 118
OU(s): IEEE SB GECBH

85. **OFFICIAL EVENT:** Anniversary Celebration Official Meeting – Online meeting to commemorate 15 years of volunteering activities of IEEE SB GECBH • **Guests:** Mrs. Sarada Jayakrishnan (Chair, IEEE Kerala Section), Dr. KC Raveendranathan (Founding Branch Counselor, IEEE SB GECBH) & Mr. Nandan S (Chair, Student Activities Committee, IEEE Kerala Section) • **Date:** 27 September 2020 • **Participants:** 95
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86. **DLP:** From Engineering Electromagnetics towards Electromagnetic Engineering - Talk on Signal Processing, Meta-surfaces, Frequency Selective Surfaces & 5G • **Speaker:** Prof. Levent Sevgi (IEEE APS Distinguished Lecturer, Istanbul OKAN University, Turkey) • **Date:** 12 October 2020 • **Participants:** 156
OU(s): IEEE APS SBC GECBH, IEEE MTT-S SBC GECBH

87. **Webinar:** Integration and packaging strategies for millimetre wave CMOS • **Speaker:** Dr. Rashaunda M Henderson (IEEE MTT-S Educational Committee Chair) • **Date:** 17 October 2020 • **Participants:** 120
OU(s): IEEE MTT-S SBC GECBH

88. **DLP:** Seminar on Satellite Systems for Emerging Telecom infrastructure - Satellite Systems for Emerging Telecom infrastructure • **Speaker:** Dr. Ramesh Gupta (Past MTT-S EC Chair) • **Date:** 17 October 2020 • **Participants:** 138
OU(s): IEEE MTT-S SBC GECBH

89. **Webinar:** Cranking a Start-up - The session done in collaboration with the IEDC GECBH dealt with the aspects of a start-up, its importance & scope in an engineer's career • **Speaker:** Mr. Varghese Cherian (Chair, IEEE PIE Kerala Section) • **Date:** 19 October 2020 • **Participants:** 70
OU(s): IEEE SB GECBH

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GOVERNMENT ENGINEERING COLLEGE - BARTON HILL

IEEE STUDENT BRANCH & IEDC
GOVERNMENT ENGINEERING COLLEGE BARTON HILL
ASSOCIATION WITH
IEEE PIE KERALA SECTION
(KARNATAKA)

WEBINAR ON
Cranking a Start-Up

VARGHESE CHERIAN
Head, Technology Services, IEDC Global
Chair, Promotion of Innovation & Entrepreneurship,
IEEE Kerala Section

bit.ly/oct19gecbh October 19
CONTACT: Gauram: +91 79024 52044, Vyshnavi: +91 96339 10540
7:00 - 8:30 PM Google Meet OPEN TO ALL FREE REG

Startup is
a Young company
Founded by One or more, entrepreneurs
Develop a Unique product or service
Bring it to market

An entrepreneurial venture in search of funding or backing to get off the ground
Need to prove the validity of the concept to potential lenders/investors
Risky propositions (investors have methods to determine value)

Varghese Cherian
GAYATHRI MOHAN
Ajay Vijayakumar
bharathan sr

WEBINAR
CRANKING A START UP
19th OCTOBER, 2020
Google Meet Platform
72 PARTICIPANTS

90. **Contest:** Cypher Smash - A two-day coding event conducted as preparation for IEEE Xtreme 14.0. A set of six problems were given each day and it tested the speed and accuracy of the participants • **Date:** 21 October 2020 • **Participants:** 59
OU(s): IEEE CS SBC GECBH

91. **DLP:** Zenith - Talk Session #1: Energy - Emerging Scenario - The talk was conducted in collaboration with ISTE GECBH. The speaker covered the topic on a general basis and talked about the future of Energy usage in space technologies • **Speaker:** Dr. Saneeth M (Deputy Head, Energy Systems Division; Project Leader, Fuel Cell Power Systems; Vikram Sarabhai Space Centre) • **Date:** 25 October 2020 • **Participants:** 80
OU(s): IEEE CS SBC GECBH

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Shaneeth M is presenting

RE - Hydrogen - fuel cell energy scheme

Participants: Shaneeth M, Swathi Prasad, ABHOUMA S..., Abirami Chan..., Kavya Mohan S, JOFFIN FRAN..., Ajna K R K R, Terin B Thott...

25th OCTOBER, 2020
Google Meet Platform

79 PARTICIPANTS

92. **DLP:** Zenith - Talk Session #2: Atmosphere and Space Research - The talk was conducted in collaboration with ISTE GECBH. The speaker talked about the various effects the atmosphere has on space flights and how they may or may not favour them • **Speaker:** Dr. K. Rajeev (MBLP Head, VSSC, Thiruvananthapuram; Principal Scientist, National IGBP-NOBLE Project) • **Date:** 26 October 2020 • **Participants:** 55
OU(s): IEEE CS SBC GECBH

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Dr. K. Rajeev

Atmospheric Pressure

Participants: Rajeev K, sooryan james, Shreyas Cs, Karthik S Nair, Abhousa S Sunil, Mani Jose, Mani Jose, Joel mathew thomas

26th OCTOBER, 2020
Google Meet Platform

65 PARTICIPANTS

93. **Contest:** Parley - Panel discussion based on space films conducted as part of Space Week Celebrations 2020 • **Date:** 26 October 2020 • **Participants:** 15
OU(s): IEEE CS SBC GECBH

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SILVER SCREEN GECBH
presents

ZENITH

PARLEY
A SPACE FILM PANEL
DISCUSSION

Registration closes on
26th October
10:00AM

26th - 28th October 2020

Register at:
bit.ly/parley_discussionforum

CONTACT
Sara +91 73063 33023
Vaishnavi +91 94970 34259

CONGRATULATIONS

Jagannath A
GEC Barton Hill

Varsha S K
GEC Barton Hill

Sherin
Albertian Institute of science
and technology.

For winning the competition
PARLEY
A SPACE FILM PANEL
DISCUSSION
conducted by IEEE Computer Society SBC GECBH
in association with Silver Screen GECBH

PANEL DISCUSSION

26th OCTOBER - 28th OCTOBER, 2020
Google Meet Platform

15
PARTICIPANTS

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94. **Contest:** 12 Parsecs - A space-based quiz competition that was conducted in collaboration with Barton Quiz Club as part of World Space Week 2020 • **Date:** 27 October 2020 • **Participants:** 46
OU(s): IEEE CS SBC GECBH

95. **DLP:** Zenith - Talk Session #3: Basics of Rockets and Orbital Mechanics - The session delved through the basic concepts of rocket engines, rocket fuels and also about India's rocket collection • **Speaker:** Mr. K K Ravindra Babu (Deputy Program Director, Space Transport System, VSSC, Thiruvananthapuram) • **Date:** 29 October 2020 • **Participants:** 167
OU(s): IEEE CS SBC GECBH

96. **Webinar:** Multiconductor Transmission Lines Theory and its Applications to Modern Metamaterials • **Speaker:** Dr. Stuart Barth (Ph.D Candidate, University of Alberta) • **Date:** 31 October 2020 • **Participants:** 100
OU(s): IEEE MTT SBC GECBH

97. **Webinar:** Microservices Architecture • **Speaker:** Mr. Anand Nair (Software Division, Personalis & Former Software Engineer, Informatica) • **Date:** 8 November 2020 • **Participants:** 53
OU(s): IEEE CS SBC GECBH

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presents

WEBINAR ON
Microservices Architecture

Anand Nair
Software Division, Personalis
Previously worked as Software Engineer,
Informatica
IT Alumni of GEC Barton Hill, 2008

8th November 2020 9:00 - 9:00 PM

Register at: bit.ly/microserv_arch

CONTACT:
Thampi +91 987133023
Pradeep +91 987133023

Maximum Seats 100

Loosely Coupled Teams and Services

THANK YOU !!!

WEBINAR

8th NOVEMBER, 2020
Google Meet Platform

62
PARTICIPANTS

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98. **Contest:** Web Cipher - Front end decoding contest in association with IEEE CS Kerala Section as part of AKCSSC '20 • **Date:** 15 November 2020 • **Participants:** 39
OU(s): IEEE CS SBC GECBH, IEEE CS Kerala Section

99. **Initiative:** Sanitizer Dispensing Unit Installation Project - Two automatic & two mechanically operated hand sanitizer dispensing units were made and installed at different public offices in the city • **Date:** 15 November 2020 • **Participants:** NA
OU(s): IEEE SB GECBH, IEEE LINK



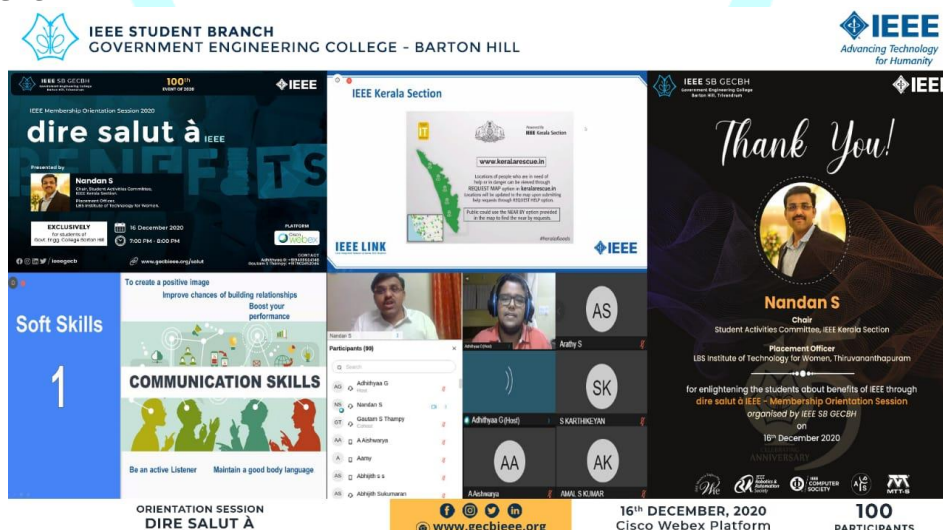
IEEE ExCom members handing over a foot operated sanitizer dispenser unit to
Dr. Renu Raj IAS
 (Director, Directorate of Urban Affairs, Government of Kerala)

100. **Webinar:** Power of Machine Learning over 5G & Edge • **Speaker:** Mr. Aswin R C (Modern Systems Engineer, Qualcomm) • **Date:** 5 December 2020 • **Participants:** 100
OU(s): IEEE CS SBC GECBH

101. **Contest:** The Quest - Robotics quiz competition based on robots.ieee.org • **Date:** 7 December 2020 • **Participants:** 23
OU(s): IEEE RAS SBC GECBH

102. **Workshop:** Advanced Antennas for Space & Industrial Applications - Design, modelling, hardware & testing workshop • **Speaker:** Dr. Yahia M M Antar (Professor of Electrical and Computer Engineering, RMC Canada), Dr. Sudhakar Rao (Northrop Grumman) • **Date:** 12 December 2020 • **Participants:** 123
OU(s): IEEE APS SBC GECBH, IEEE MTT SBC GECBH

103. **Webinar:** dire salut à (Say Hi to IEEE) - IEEE Membership Orientation Session • **Speaker:** Mr. Nandan S (Chair, Student Activities Committee, IEEE Kerala Section) • **Date:** 16 December 2020 • **Participants:** 100
OU(s): IEEE SB GECBH



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104. **Contest:** Nick Knack - Online Aptitude Test Challenge • **Date:** 19 December 2020 • **Participants:** 111
OU(s): IEEE SB GECBH
105. **Workshop:** MM Wave - One day workshop on MM wave & THz devices and Technology • **Speaker:** Dr. KJ Vinoy (Professor, Electrical Communication Engineering, IISc Bangalore) • **Date:** 21 December 2020 • **Participants:** 126
OU(s): IEEE APS SBC GECBH, IEEE MTTs SBC GECBH
106. **Workshop:** Ready Set Boot - Three online Arduino Workshop using TinkerCAD • **Date:** 22 December 2020 • **Participants:** 87
OU(s): IEEE RAS SBC GECBH
107. **Contest:** The Kick Off - Five day productivity drill • **Date:** 1 January 2021 • **Participants:** 135
OU(s): IEEE SB GECBH
108. **Online Certification Course:** Build the Board - Two week online course on PCB Designing using Eagle CAD • **Date:** 11 January 2021 • **Participants:** 40
OU(s): IEEE RAS SBC GECBH
109. **Contest:** J.A.M - Just A Minute Competition • **Date:** 15 January 2021 • **Participants:** 25
OU(s): IEEE CS SBC GECBH

Submitted by,

Adhithyaa G

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