

IEEE STUDENT BRANCH

Government Engineering College – Barton Hill, Thiruvananthapuram

SUMMARY OF ACTIVITIES CONDUCTED IN 2022

This report includes all Student Branch activities from 26 January 2022 to 04 January 2023.

1. **Annual General Body Meeting.** This was the occasion that marked the transfer of power from the former execom to the current execom and also witnessed the distribution of prizes to the best volunteers. **Date:** 26/01/2022. **Participants:** 64

IEEE Computer Society SBC GEC BARTON HILL

1. **Workshop:** Exploring Git and GitHub - A Workshop **Session** handled by Aniket Pal which provides an overview of Git, GitHub and its applications. **Date:** 13/02/22. **Participants:** 60
2. **Webinar: Introduction to Python** – Conducted in collaboration with Coder's Hub to teach the basics of Python. **Date:** 12,19/02/22. **Participants:** 22
3. **Initiative:** Keynote E.19. **Date:** 06/03/22.
4. **Contest:** COGNITIONIS 2.0 #2 – Quiz as part of COGNITIONIS 2.0 on the topic Integrated Approach in Science and Technology for a Sustainable Future. **Date:** 09/03/22. **Participants:** 60



5. **Initiative:** Ryan and Ria <Energy Report>. **Date:** 13/03/22.
6. **Initiative:** #include Tip 2.9 – Tip on using logarithms to find number of digits. **Date:** 20/03/22.
7. **Initiative:** INFOBYTES – on AMECA by Engineered Arts – Technology that almost feels human. **Date:** 27/03/22.
8. **Initiative:** Keynote E.20. **Date:** 06/04/22
9. **Initiative:** Ryan and Ria <Instant Locking>. **Date:** 13/04/22.

10. **Contest:** Quizzards – launched a monthly quiz series on WhatsApp. **Date:** 15/04/22.
11. **Initiative:** #include Tip 3.0 – Swapping of two numbers using XOR operand. **Date:** 21/04/22
12. **Initiative:** INFOBYTES – AQUANAUT – The underwater transformer. **Date:** 28/04/22.
13. **Initiative:** Keynote E.21. **Date:** 06/05/22.
14. **Initiative:** Ryan and Ria <Problem Step Recorder>. **Date:** 13/05/22.
15. **Initiative:** #include Tip 3.1 – Use of STL Containers
16. **Initiative:** INFOBYTES – Padrone Rings – Transform your finger into a cursor. **Date:** 28/05/22.
17. **Initiative:** Keynote E.22. **Date:** 08/06/22
18. **Initiative:** Ryan and Ria <Reliability and Performance Monitor>. **Date:** 14/06/22.
19. **Webinar:** A Snapshot on C Programming – a collaboration with Coder's Hub completely based on KTU Syllabus. **Date:** 20-22/06/22. **Participants:** 40



20. **Webinar:** Making Your Professional Ecosystem Using LinkedIn – a collaboration with Microsoft Learn Student Ambassador on the importance of LinkedIn today. **Date:** 23/06/22. **Participants:** 35
21. **Initiative:** #include Tip 3.2 – Checking if number is even or odd using & operator. **Date:** 21/06/22.
22. **Initiative:** INFOBYTES – Anzene Energy Block. **Date:** 28/06/22.
23. **Initiative:** Keynote E.23. **Date:** 06/07/22
24. **Workshop:** Advanced Persistent Threat and IOT Security – This was an offline Workshop handled by GTEC Computer Education, Palayam. **Date:** 09/07/22. **Participants:** 33
25. **Initiative:** Ryan and Ria <Preset Shortcut Keys>. **Date:** 14/07/22.

26. **Workshop:** Hacktok '22 – a Cyber Security Workshop with RedTeam Hacker Academy, Trivandrum. **Date:** 23/07/22. **Participants:** 40



27. **Contest:** COGNITIONIS 2.0 #5 – Quiz as part of COGNITIONIS 2.0 on the topic Mainframe Computers. **Date:** 19/07/22. **Participants:** 90
28. **Initiative:** #include Tip 3.3 – Arithmetic Left Shift and Right Shift. **Date:** 20/07/22.
29. **Initiative:** INFOBYTES – Revopoint MINI. **Date:** 28/07/22.
30. **Initiative:** Keynote E.24. **Date:** 06/08/22.
31. **Initiative:** Ryan and Ria <Document Design Mode>. **Date:** 13/08/22.
32. **Initiative:** #include Tip 3.4 – The Goes To Operator. **Date:** 22/08/22
33. **Initiative:** INFOBYTES – Fingerbot Plus. **Date:** 27/08/22.
34. CATALYST – A career orientation series with IEEE RAS SBC GEC Barton Hill.



35. **Contest:** Placement Test and Mock Interview. **Date:** 06/09/22. **Participants:** 32
36. **Webinar:** Pursuing MS – All you need to know. **Date:** 06/09/22. **Participants:** 44
37. **Webinar:** Placements and Off Campus Opportunities. **Date:** 05/09/22. **Participants:** 12
38. **Initiative:** Keynote E.25. **Date:** 10/09/22
39. **Initiative:** Ryan and Ria <View Network Status>. **Date:** 16/09/22.
40. **Initiative:** #include Tip 3.5 – Checking if bit at nth position is set or unset. **Date:** 26/09/22.
41. **Webinar:** IEEEExtreme 16.0 Ambassador Talk – to know more about the benefits of taking part in IEEE Xtreme. **Date:** 30/09/22. **Participants:** 60

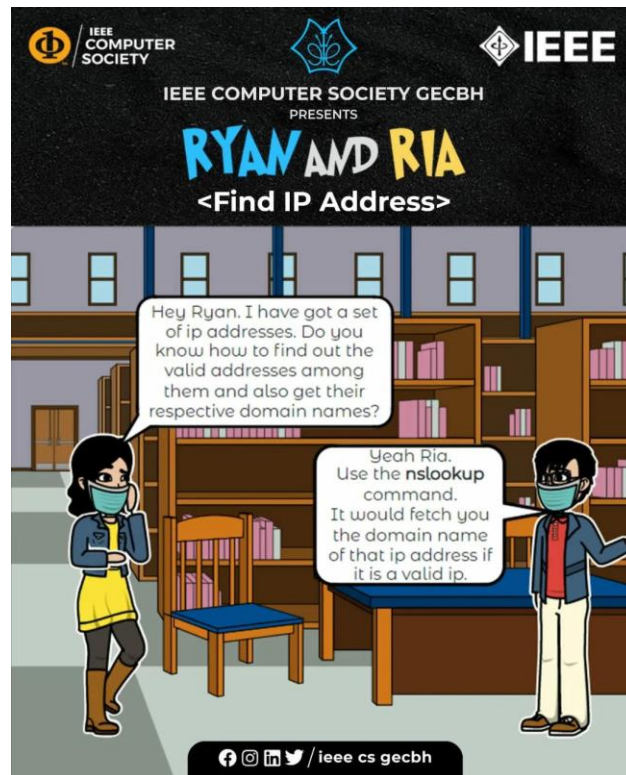
42. **Initiative:** INFOBYTES – Mars Green Planter. **Date:** 30/09/22.
43. **Workshop:** Workshop on Filter Making Using Spark AR – collaboration with IEEE CS Kerala Chapter as part of INFORMATYKA 2.0. **Date:** 02-03/09/22. **Participants:** 45
44. **Initiative:** Keynote E.26. **Date:** 06/09/22.
45. **ALTERDIME** – Flagship Event



46. **Contest:** TECHNOBATE – Technical Debate Competition. **Date:** 15/09/22. **Participants:**
47. **Workshop:** Workshop on Gamification. **Date:** 16/09/22. **Participants:** 50
48. **Contest:** CODEX – online coding competition. **Date:** 16/09/22. **Participants:** 22
49. **Workshop:** Workshop on Machine Learning. **Date:** 17-18/09/22. **Participants:** 52
50. **Workshop:** Workshop on Adobe Photoshop. **Date:** 19-20/09/22. **Participants:** 60

51. Closing Ceremony – Marked the closing of ALTERDIME and was the valedictory function for the same. **Date:** 21/09/22. **Participants:** 25

52. **Initiative:** Ryan and Ria <Find IP Address>. **Date:** 25/09/22.



53. **Initiative:** #include Tip 3.6 – The watch macro. **Date:** 25/06/22.

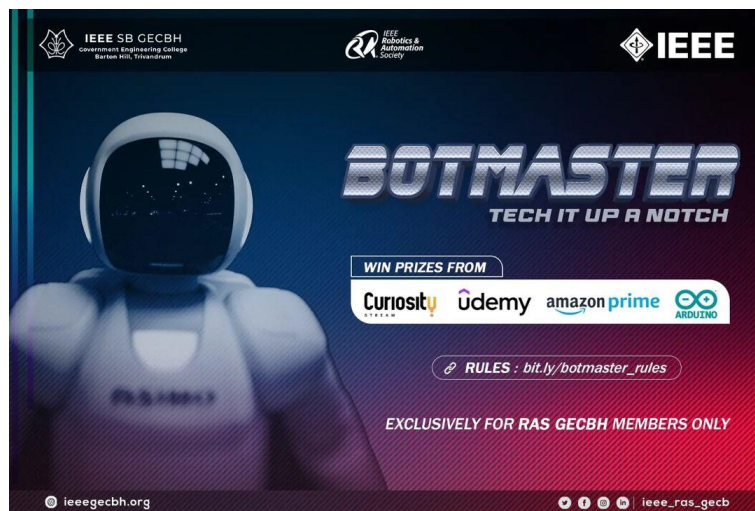
54. **Initiative:** INFOBYTES – DJI Avata. **Date:** 30/09/22.

IEEE RAS SBC GEC Barton Hill

1. **Webinar:** Introduction to Autonomous Mobile Robots and its Applications – A talk that threw light on the essential skills in Robotics. **Date:** 06/02/22. **Participants:** 40
2. **Initiative:** KNOWBOTS Edition 36 – RoboBee can now pivot on a dime. **Date:** 19/02/22.



3. **Contest:** Tech-It-Out – Just a minute competition on Integrated approach in science and technology for a better future with IEEE AP-S and IEEE MTT-S SBCs of GEC Barton Hill. **Date:** 08/03/22. **Participants:** 10
4. **Contest:** BOTMASTER – Launched year-long trivia quiz series conducted biweekly exclusively for IEEE RAS members of GECBH. **Date:** 20/03/22.



5. **Contest:** REBOOT – Arduino Day Quiz Competition. **Date:** 27/03/22. **Participants:** 40
6. **Initiative:** KNOWBOTS Edition 38 – The 11 commandments of hugging robots. **Date:** 02/03/22.
7. **Initiative:** KNOWBOTS Edition 39 – Physical sensations in VR go hands free. **Date:** 25/04/22.

8. **Session:** Robotics Community Meetup – Kerala Police Cyberdome Robotics Wing – an offline Session to improve and bring forth innovation from every nook. **Date:** 10/06/22. **Participants:** 40
9. **Initiative:** KNOWBOTS Edition 40 – Flea-sized robots walk a coin-edge-sized path. **Date:** 16/06/22.
10. **Initiative:** KNOWBOTS Edition 41 – Amazon Shows Off Impressive New Warehouse Robots. **Date:** 05/07/22.
11. **Initiative:** KNOWBOTS Edition 42 – Robotic rat climbs, crawls and turns on a dime. **Date:** 10/08/22.
12. **Initiative:** KNOWBOTS Edition 43 – Underwater robots get a boost in mapping the ocean, **Date:** 30/08/22.
13. CATALYST – A career orientation series with IEEE CS SBC GEC Barton Hill.
14. **Contest:** Placement Test and Mock Interview. **Date:** 06/09/22. **Participants:** 32
15. **Webinar:** Pursuing MS – All you need to know. **Date:** 06/09/22. **Participants:** 44
16. **Webinar:** Placements and Off Campus Opportunities. **Date:** 05/09/22. **Participants:** 12
17. **Contest:** COGNITIONIS 2.0 #6 - Quiz as part of COGNITIONIS 2.0 on the topic Mechatronics Systems and its Applications. **Date:** 19/09/22. **Participants:** 112
18. **Session:** Peer to peer mentorship training on Image Processing – covered sub-topics of Python, OpenCV and included a mini and main project. **Date:** 11/10/22 onwards (2 weeks). **Participants:** 10
19. **Initiative:** KNOWBOTS Edition 44 – Aerial Dragon Robot Recognises Itself Into a Flying Manipulator. **Date:** 10/10/22
20. **Workshop:** Drone Workshop – conducted in association with Underwater Drone Technologies Pvt.Ltd to cover the fundamentals of drones. **Date:** 05-06/11/22. **Participants:** 71
21. **Contest:** Android Kunjappan – an opportunity to showcase one’s projects through tech-reels in a competition. Last **Date:** 21/12/22. **Participants:** 10



22. **Initiative:** KNOWBOTS Edition 45 – Robots learn human trick for not falling over. **Date:** 12/12/22.

IEEE AP-S and IEEE MTT-S SBCs GECBH

1. **Contest:** Tech-It-Out – Just a minute competition on Integrated approach in science and technology for a better future with IEEE RAS SBC of GEC Barton Hill. **Date:** 08/03/22. **Participants:** 10



2. **Webinar:** L4 Series Talk – RF Aspects of Magnetic Resonance Imaging by Dr. Robert H. Caverly with IEEE AP-S and IEEE MTT-S Kerala Chapters. **Date:** 25/03/22. **Participants:** 60
3. **Webinar:** L4 Series Talk – Decision Making and its Impacts with by Dr. B N Suresh with IEEE AP-S and IEEE MTT-S Kerala Chapters and IEEE AP-S and IEEE MTT-S SBCs of IIST. **Date:** 13/05/22. **Participants:** 55
4. **IV:** CUSAT Visit. **Date:** 17/05/22. **Participants:** 52
5. **Contest:** Techstreak – a saga of 5 events exclusively conducted for IEEE AP-S and MTT-S members was launched. **Date:** 11/07/22.

6. **Session:** IEEE Women In Microwave Colloquium – to learn and get inspired by several female engineers in the field of RF and Microwave with IEEE MTT-S Kerala Chapter. **Date:** 27/07/22. **Participants:** 40



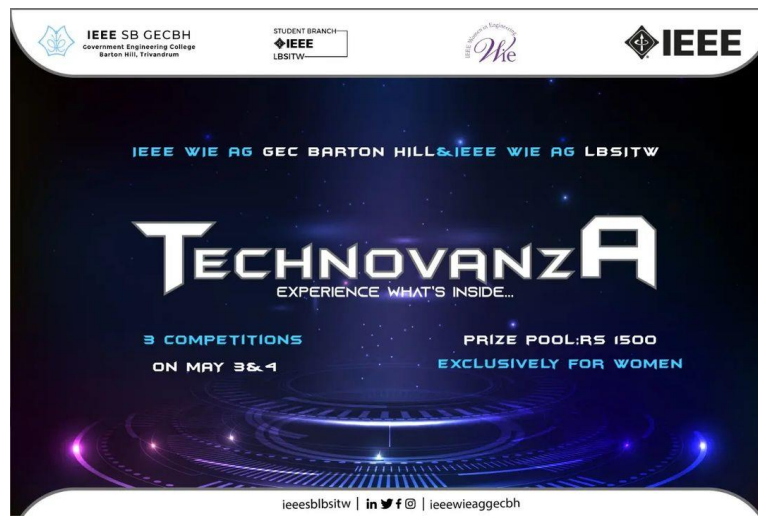
7. **Session:** Using technology for the benefit of humanity – opportunities ideas and challenges in collaboration with IEEE AP-S SIGHT and COPE, IEEE AP-S and IEEE MTT-S Kerala Chapter, WiE International Leadership Summit, and IEEE WiE Kerala Section. **Date:** 30/07/22. **Participants:** 20
8. **Session:** L4 Series Talk – An interactive **Session** with the legend on research, teaching and leadership by Prof. Debatosh Guha in collaboration with IEEE AP-S and MTT-S SBCs of IIST and IEEE AP-S and IEEE MTT-S Kerala Chapters. **Date:** 27/08/22. **Participants:** 60
9. **DLP:** A technical talk and interaction with IEEE Members by Prf. Debatosh Guha. **Date:** 24/09/22. **Participants:** 50
10. **DLP:** Distinguished Microwave Lecture by Dr, Shiban Koul. **Date:** 23/11/22. **Participants:** 25
11. **IV:** IPRC Mahendragiri. **Date:** 08/12/22. **Participants:** 42

IEEE WiE AG GEC Barton Hill

1. **Webinar:** Real Talk, A Candid Conversation on Opportunities - An informal talk session that focused on the speaker, Ms. Pheba Anna Philip, sharing her journey and enriching experiences of GHCI. **Date:** 01/03/2022. **Participants:** 41
2. **Contest:** Elaborer, An UI/UX Design Competition. **Date:** 05/03 - 10/03/22. **Participants:** 7



3. **Contest:** Technovanza - Series of three technical competitions in collaboration with IEEE WiE AG LBSITW



4. Nanoquiz - Quiz on Nanotechnology. **Date:** 03/05/22. **Participants:** 17
5. Rack Your Brain - Online aptitude test. **Date:** 03/05/22. **Participants:** 65
6. Runtime Terror - debugging competition. **Date:** 04/05/22. **Participants:** 1
7. **Contest:** Eminere - Placement oriented competition as part of WiE Compete: WiE Week Celebrations 2022, in collaboration with WIE AG's of RSET, BJT and NIELET. **Date:**

- 26/05/2022 - 28/05/2022. **Participants:** 51
8. **Contest:** Expedition - A technical treasure hunt in collaboration with IEEE WiE AG MACE and GADS LLP. **Date:** 23/06/22. **Participants:** 103
9. **Contest:** COGNITIONIS 2.0 #4 – Quiz on the topic Blockchain Technology. **Date:** 19/06/22. **Participants:** 34
10. **Contest:** Nick Knack 2.0 - An aptitude test series based on CAT syllabus; 5 days, 15 questions each day. **Date:** 20/09/22 - 24/09/22. **Participants:** 110

**IEEE SB GECBH**
Government Engineering College
Barton Hill, Trivandrum



**IEEE**

NICK KNACK 2.0

AN APTITUDE TEST SERIES

15 QUESTIONS | 15 MINS | 5 DAYS

EVENT DETAILS

DATE | 20th - 24th September 2022
TIME | 7 : 30 PM

REG LINK | min.lc/NickKnack

PRIZES WORTH RUPEES 500



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EXORDIUM

- EXORDIUM 2.0 is the annual mega-flagship event of IEEE SB GEC Barton Hill, Trivandrum. With a staggering participation count of 110 IEEE members, the event was conducted offline this year at GEC Barton Hill, Trivandrum.

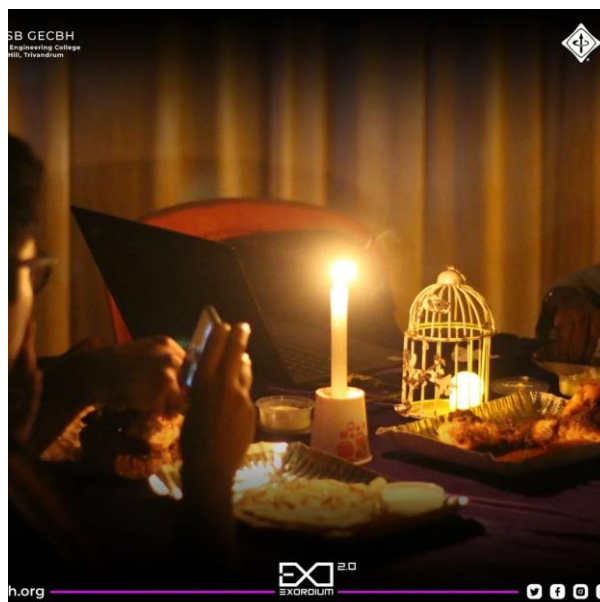


1. **Inaugural Ceremony** – With Mrs. Sarada Jayakrishnan as the Chief Guest, this also included the launch of Shristi, the new SIGHT Chapter. **Date:** 18/11/22. **Participants:** 110
2. **Networking Session** with YPs – to introduce the **Participants** into the various benefits offered by IEEE and familiarize with each other. **Date:** 18/12/22. **Participants:** 110
3. **Culturals** – A unique performance by the College Band. **Date:** 18/12/22. **Participants:** 110
4. Build-a-thon – Offline Workshop based on project building with Arduino. **Date:** 19/12/22. **Participants:** 55
5. **AR-a-thon** – Offline Workshop based on project building with Unity. **Date:** 19/12/22. **Participants:** 55
6. **Sell Me the Code** – This **Contest** was an intriguing combination of coding and business. This was conducted by IEEE CS SBC GECBH. **Date:** 19/11/22. **Participants:** 110

7. **Breakout** – An exciting escape room in real life. This was conducted by IEEE RAS SBC GECBH. **Date:** 19/11/22. **Participants:** 110.



8. **Perspective** – the first round was a situation reaction test followed by the second round which was a word association test. This was conducted by IEEE WiE AG GECBH. **Date:** 19/11/22. **Participants:** 110.
9. **Feud Rebus** – A series of fun-filled games like in the TV show Feud Rebus. This was conducted by IEEE AP-S and IEEE MTT-S SBCs GECBH. **Date:** 19/11/22. **Participants:** 110
10. **Valedictory Ceremony** – This marked the closing of EXORDIUM 2.0 and several prizes were given away including those for EXORDIUM, COGNITIONIS 2.0 and the group activities of the SBCs. **Date:** 19/11/22. **Participants:** 110
11. **Candlelight Dinner** – The night ended with a beautiful candlelight dinner comprising all **Participants** and volunteers. **Date:** 19/11/22. **Participants:** 110



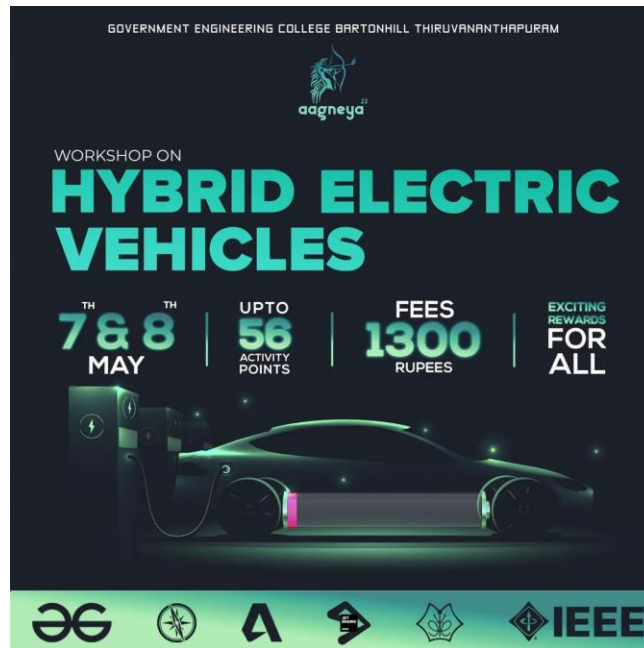
12. **IV** – An industrial visit was organized for all *Participants* to Kerala State Science and Technology Museum and Priyadarshini Planetarium. **Date:** 20/11/22. **Participants:** 110.



Aagneya '22

- Aagneya is the annual techno-cultural-managerial and entrepreneurial fest of GEC Barton Hill, Trivandrum. As part of the Technical-managerial and entrepreneurial fest of Aagneya '22 conducted at Sree Chithira Thirunnaal Ground Poojappura, Trivandrum, IEEE SB GEC Barton Hill contributed in conducting 15 pre-events and 33 main-day events.

1. **Workshop:** Tech Camp-Workshop on Hybrid Electric Vehicles. **Date:**07-08/05/22.
Participants: 352



2. **Contest:** Fast Fingers – a googling competition based on speed. **Date:** 13/05/22.
Participants: 65
3. **Contest:** COGNITIONIS 2.0 #3 – Quiz on the topic Science and Technology. **Date:** 20/05/22. **Participants:** 112.
4. **Contest:** HATCH PITCH – a two-round entrepreneurial competition that included report submission and presentation rounds. **Date:** 28/05/22 and 03/06/22. **Participants:** 20
5. **Contest:** EMERGE – a **Contest** to express innovative ideas on start-ups sponsored by Ed Gaadi. **Date:** 04/06/22. **Participants** - 15
6. **Contest:** BLACKOUT – a blind coding competition. **Date:** 04/06/22. **Participants:** 20

7. **Contest:** INAPP BEST ENGINEER – a simulation of the actual placement drive with three rounds. **Date:** 28 and 30/05/22 and 04/06/22. **Participants:** 30



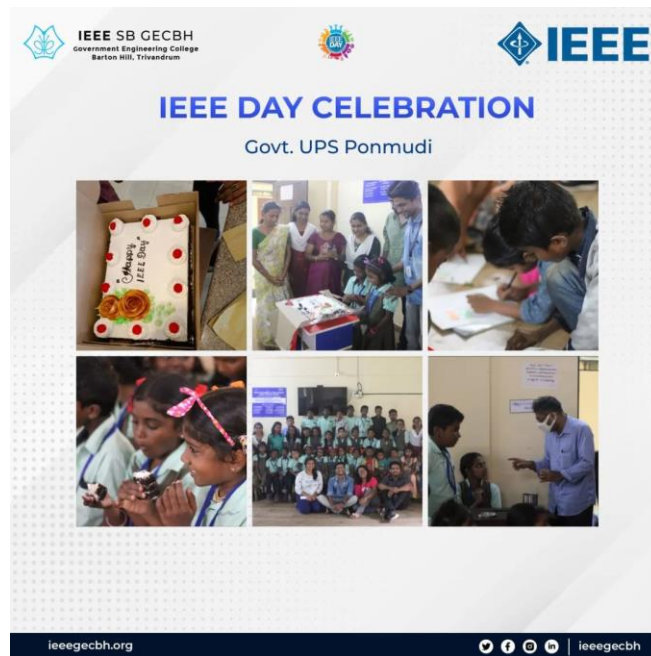
8. **Contest:** HACKWARE – Arduino based IOT Challenge. **Date:** 04/06/2022. **Participants:** 15
9. **Contest:** LABYRINTH – a robo race through the maze. **Date:** 04/06/22. **Participants:** 10
10. **Contest:** Vyuh 10.0 – an online treasure hunt. **Date:** 27/05/22. **Participants:**

Other Events

1. **Administrative:** Execom Training – Conducted by Dr. Mini Ulanat. **Date:** 29/06/22. **Participants:** 64



2. **Contest:** WEBCIPHER 2.0 – A front-end website debugging competition. **Date:** 07-09/07/22. **Participants:** 22
3. **Contest:** BEST ENGINEER 7.0 – 2 rounds of the 7th edition which group discussion and HR interview. **Date:** 26/07/22 and 21/09/22. **Participants:** 10+
4. **Contest:** BEST ENGINEER 8.0 – 3 rounds of the 8th edition comprising aptitude test, group discussion and HR interview. **Date:** 31/10/22 – 09/11/22. **Participants:** 350
5. **IEEE Day Celebration** – conducted at Government UPS, Ponmudi. **Date:** 07/10/22. **Participants:** 25



6. **Contest:** KICK OFF 3.0 – Organized for the first-year students of GECBH comprising 5 rounds of 5 tasks. **Date:** 03/11/22 onwards. **Participants:** 62
7. **Contest:** Reminiscence – an opportunity to share experience with IEEE. Last **Date:** 19/10/22. **Participants:** 16

