

Events Organized by Dept. of ECE

Events Organized by Professional Societies

Academic Year	IETE	IEEE	GDG	Total
2024-25	2	2	5	9
2023-24	5	3	-	8
2022-23	5	3	-	8
2021-22	3	0	-	3

Events Organized under IETE

AY 2024-25

1. **Online Programming Competition Tri-O-Code 2.0:** - The Tri-O-Code 2.0 event successfully elevated participants' programming skills by immersing them in real-world problem-solving scenarios. It highlighted the critical importance of algorithmic optimization and effective coding practices, both essential for addressing complex challenges. The contest offered a valuable educational experience, encouraging participants to broaden their knowledge base and explore innovative approaches to problem-solving.

Date: 8th November, 2024

Number of participants: 156

Program Coordinator: ISF Student Volunteers

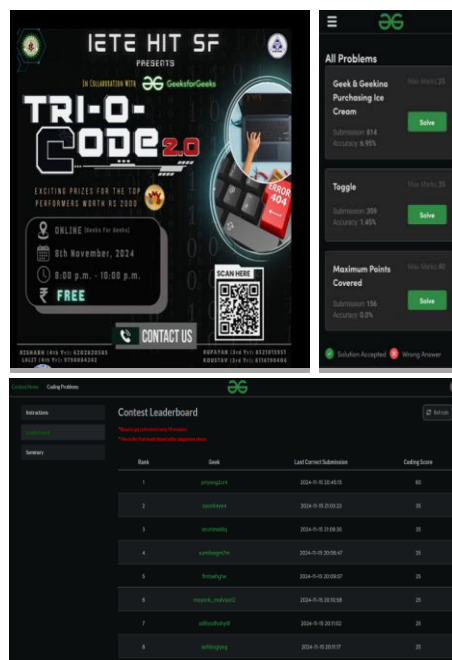


Fig.4: Banner and Screenshots for Tri-O-Code 2.0

2. **2-Day Programming Workshop DSA Nexus 1.0:** -The IETE HIT SF hosted a two-day workshop titled "DSA Nexus 1.0," focusing on Data Structures and their applications. The workshop began on July 12 with an introduction to C Programming, covering topics like data types, loops, and dynamic memory. On July 13, participants explored more advanced topics, including Time Space complexity, Searching, Sorting, and Linked Lists. Finally, the workshop concluded on July 14 with discussions on Stack Data Structures, Queues, Trees, and Graphs. This engaging experience not only enhanced participants' skills but also fostered creativity and networking. Congratulations to everyone involved!

Date: 12th - 14th July, 2024

Number of participants: 85

Program Coordinator: ISF Student Volunteers



Fig. 5: Banner of DSA Nexus 1.0

AY 2023-24

1. **IoT Based Workshop ECOSYNC IOT 1.0:** On April 19th, IETE HIT SF organized Ecosync IoT 1.0, a two-day workshop focused on The Internet of Things. Day 0 involved software installation and an introduction to C++ coding. Day 1 started with a recap of Day 0 and included sessions on cloud computing, the benefits of IoT, and practical projects such as coding with Arduino and connecting circuits to Wi-Fi. The final day featured a tutorial on setting up Blynk for IoT applications, where participants worked on home automation projects. The second half focused on an industrial project for smoke and fire detection, allowing participants to gain hands-on experience and deepen their understanding of IoT principles.

Date: 19th - 20th April, 2024
Number of participants: 80
Program Coordinator: ISF Student Volunteers



Fig. 6: Snapshots of Ecosync IOT 1.0

- Online Coding Competition Tri-O-Code:** - The IETE HIT SF recently hosted an electrifying coding competition, TRI-O-CODE, in partnership with the renowned GeeksforGeeks for an exciting three-day event. Day one and two was open for all students feuding for supremacy on the leaderboard. With fierce

competition, top participants of the second day advanced to day three where they battled to broaden the charts, winning thrilling coupons worth up to rupees 5000. The event highlighted exceptional participation and coding experts as each participant put forth their best efforts and revealed their hidden talents. As a reward for their proficiency, top contenders have received thrilling prizes while every participant awarded a certificate of participation. A heartfelt thank you goes out to everyone who contributed to making TRI-O-CODE a smashing success and to GeeksforGeeks for their valuable collaboration.

Date: 25th - 27th August, 2023

Number of participants: 75

Program Coordinator: ISF Student Volunteers



Fig.7: Images of Ti-O-Code banner and Certificate distribution

3. **3-days programming workshop Python Decoded 3.0:** The IETE HIT SF organized a three-day workshop called "Python Decoded 3.0," aimed at providing extensive knowledge of Python programming. The first day covered installation and the basics, ensuring participants had the right tools. On the second day, attendees explored intermediate topics like data structures and libraries through interactive discussions. The final day focused on turtle graphics, allowing participants to create graphical designs while reinforcing core programming concepts. The workshop concluded with a lively photo session, successfully fostering learning and collaboration in Python programming.

Date: 14th - 16th November, 2023

Number of participants: 126

Program Coordinator: ISF Student Volunteers

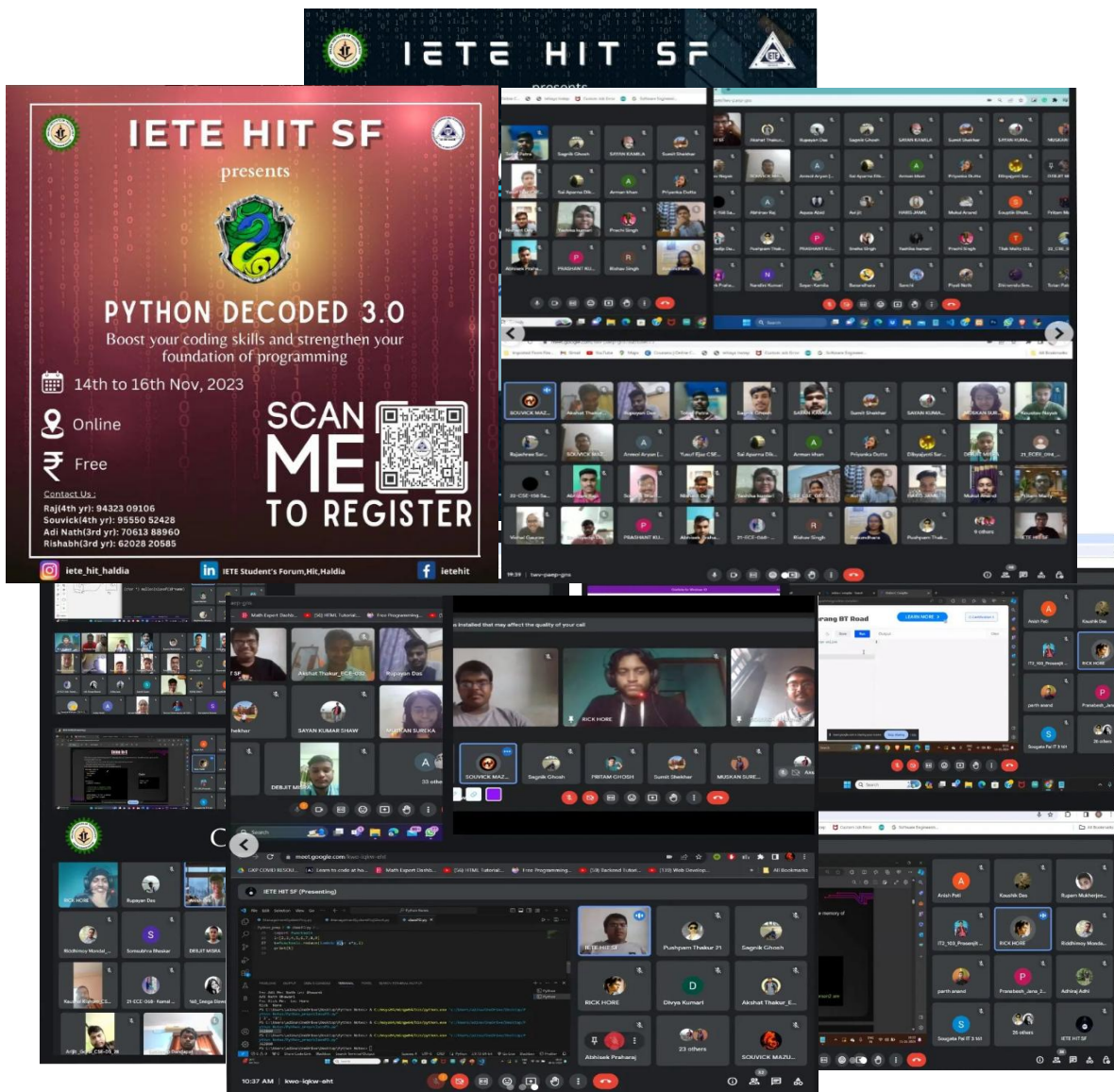


Fig. 8: Python Decoded 3.0 banner and screenshots of the event

4. **2-days programming workshop C Revisited:** IETE HIT SF hosted an engaging two-day workshop titled "C-Revisited," focusing on the practical applications of C programming. The event featured four sessions, starting with essential concepts on the 9th and advancing to functions, recursion, structures, and pointers on the 10th and 11th. The workshop kicked off with two sessions covering core principles like iteration, loops, and arrays, establishing a solid foundation for the later topics. A diverse group of enthusiastic participants joined in, eager to enhance their skills. Each module included interactive revision questions, concluding with a challenging quiz. This enriching experience equipped attendees with valuable knowledge and a powerful sense of accomplishment.

Date: 9th - 10th January, 2024

Number of participants: 95

Program Coordinator: ISF Student Volunteers

Fig. 9: C Revisited banner and screenshots of the event

5. **Hands-on workshop Robotrix 3.0:** IETE HIT SF organised a workshop to help student acquire skills and hands-on experience in constructing and sprinting their very own robots on fields. It was a 2-day workshop in which student learnt about SEMI-AUTONOMOUS Robotics with an overview of C++ as well.

Date: 17th - 18th February, 2024

Number of participants: 64

Program Coordinator: ISF Student Volunteers

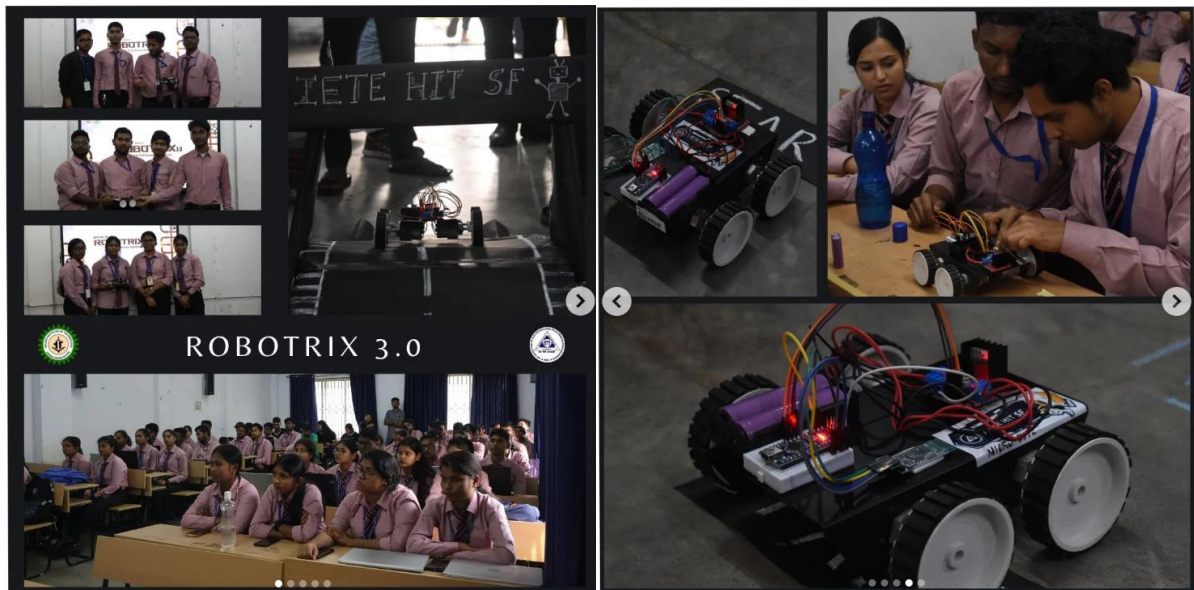


Fig.10: Robotics 3.0 banner and snapshots of the event

AY 2022-23

1. **Coding Competition ByteFight 3.0:** This event was all about a fight between coders. The contest was held in two rounds. Participants clearing the first round were eligible for the second round. Top three were selected in the second round and awarded with exciting prizes.

Date: 18th September, 2022

Number of participants: 82

Program Coordinator: ISF Student Volunteers

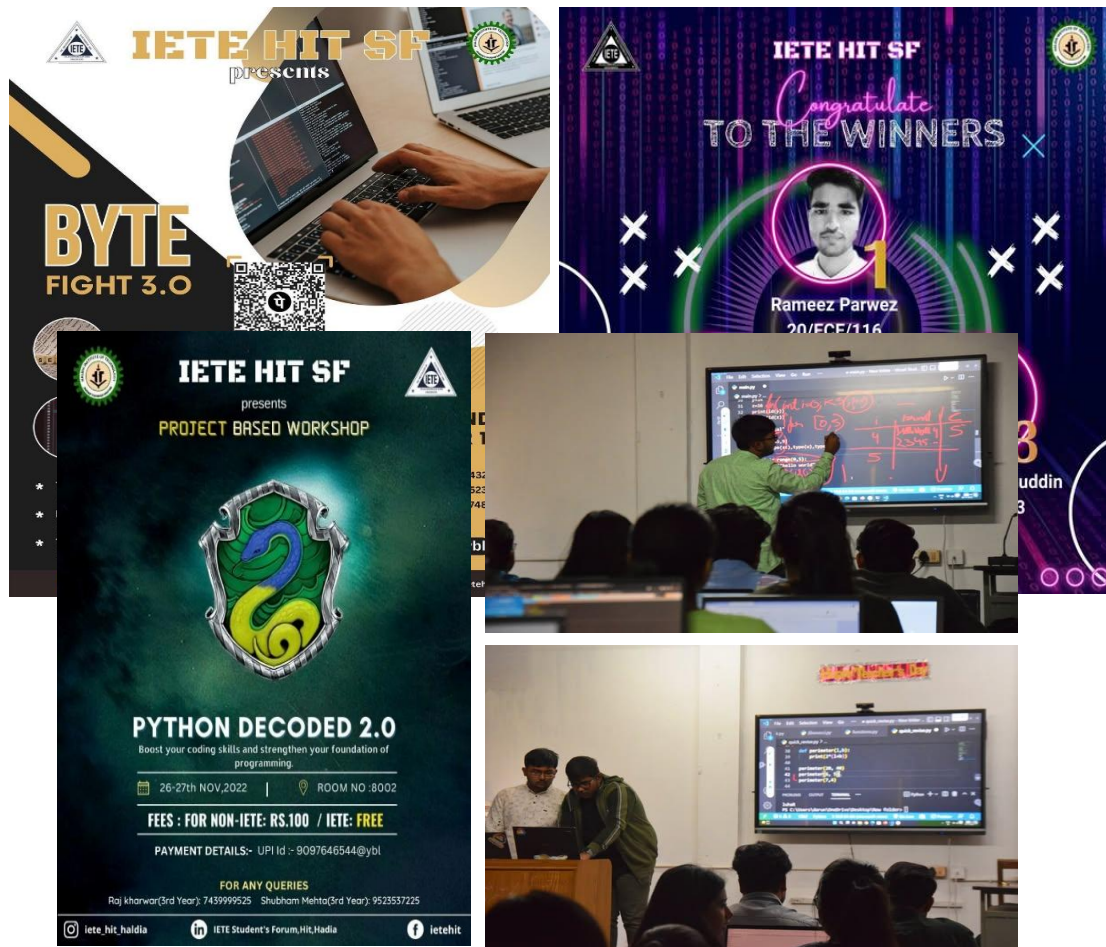


Fig.11: ByteFight 3.0 banner and winners list

2. **Python Decoded 2.0:** From Data types to class to functions all that can make one aware with data and algorithms was taught using python language alongside some projects to relate with our world. This workshop presented two hands-on project which will help students in their further internships. Participants took a step ahead from novice to intermediate level in the world of coding.

Date: 20th – 22nd November, 2022

Number of participants: 78

Program Coordinator: ISF Student Volunteers

Fig. 12: Python Decoded 2.0 banner and snapshots of the event



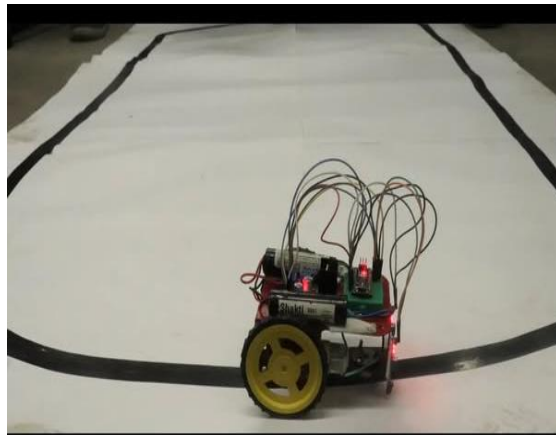
3. **Skill Development Program on Design and Prototyping:** IETE HIT SF in collaboration with HIT - AICTE IDEA LAB organised a skill development program for students on DESIGNING & PROTOTYPING.

Date: 21st – 27th February, 2023

Number of participants: 80

Program Coordinator: ISF Student Volunteers

Fig. 13: Poster of the Skill Development Program



4. **Hands-on workshop Robotrix 2.0:** IETE HIT SF organised a workshop to help student acquire skills and hands-on experience in constructing and sprinting their very own robots on fields. It was a 2-day workshop in which student learnt about SEMI-AUTONOMOUS Robotics with an overview of C++ as well.

Date: 18th – 19th March, 2023

Number of participants: 56

Program Coordinator: ISF Student Volunteers

Fig. 14: Poster of Robotrix 2.0 and snapshots of the event



5. **Hands-on workshop Web-Dev:** First day was the installation day, participants were made to install necessities for the kick also start the basics of javascript were introduced to gain knowledge of web development. The second day started with a warming-up session of the previous day and carried on with the essentials of JAVASCRIPT. JS basics were delivered to the participants, they took a step ahead in learning web dev, they were excited enough to explore their newfound skills and opportunities in the field of web development. The workshop for the final day started with a doubts-clearing session and switched to a quick revision. Participants delved deeper into CSS, exploring the concepts. The day reached its pinnacle with the completion of a hands-on project and certificates were awarded to the participants for the active participation. We appreciate the active participation which made this workshop enthusiasts. Thank you for your invaluable time and efforts and for making this event a win. We hope to see you again in our coming workshops.

Date: 18th – 19th March, 2023

Number of participants: 56

Program Coordinator: ISF Student Volunteers

Fig.15: Snapshots of the workshop Web-Dev

AY 2021-22

1. **Quiz Competition TECH TRIVIA:** IETE HIT SF organized a successful free quiz contest under the Supervision of Faculty Coordinator Prof. Surajit Mukherjee. In this contest, the question was based on coding and aptitude. Our aim was to enhance and assess their coding and general skills through this contest.

Date: 2nd July, 2021

Number of participants: 56

Program Coordinator: ISF Student Volunteers



Fig.16: Tech Trivia poster and winners list

- Coding Competition ByteFight 2.0:** IETE HIT SF organized a coding contest “ByteFight 2.0” under the supervision of faculty coordinate Prof. Mr. Surajit Mukherjee, guided by our expert core IETE members. There were two rounds in which 60% student of first round were promoted to the second round. Winners got extremely exciting cash prizes. Our motive was to polish the competitive programming skills of the students as well as prepare for their placements.

Date: 23rd – 24th October, 2021

Number of participants: 56

Program Coordinator: ISF Student Volunteers

Fig.17: Byte-Fight 2.0 poster and winners list

- Quiz Competition Quiz-Pod:** It is that time of the year where all the students will engross themselves in the coming placement days. On this grooming period, we team IETE had organized a quiz contest matching the questions from the interview set. It was organized on 29th January,2022 from 12:00pm onwards. 125 students from all the years have participated and has given their utmost in qualifying the contest. We are glad about their participation in this contest. The response and enthusiasm in the contest

have been a mark for us for more such ventures in the upcoming future times. The contest was MCQ based. The questions covered areas from Python/Java (as per the candidate's choice) and DBMS. As mentioned during the contest about certain rules, we have followed them very strictly to avoid plagiarism. Certificate of Achievement have been awarded to the top three winners of the contest. Also, participation certificate has been provided to the top fifty participants from the contest.

Date: 23rd – 24th October, 2021

Number of participants: 56

Program Coordinator: ISF Student Volunteers



Fig.18: Quiz-Pod poster and winners list

Events Organized under IEEE

AY 2024-25

1. **Hands-on Workshop Printerocate:** From August 20 to August 24, 2024, IEEE HIT SBC hosted a five-day workshop titled “Printerocate”, focusing on PCB fabrication and circuit design. Led by Dr. Dibyendu Chowdhury sir, the workshop offered participants a comprehensive learning experience, covering everything from theoretical concepts to practical hands-on projects. The event saw the enthusiastic participation of twenty-four students. Under the guidance of Dr. Avisankar Roy sir and Mr. Surajit Mukherjee sir, with student coordinators Stuti Dey and Yuvraj Kumar, participants explored the intricacies of PCB production, including design, etching, and assembly. Highlighting the workshop were innovative projects like RGB lights and electronic candles, highlighting real-world applications of PCB fabrication. The event provided invaluable insights into the field, making it an engaging and impactful experience for all involved.

Date: 20rd – 24th August, 2024

Number of participants: 46

Program Coordinator: Dr. Avisankar Roy, Mr. Surajit Mukherjee

Resource Person: Dr. Dibyendu Chowdhury, Mr. Atanu Pradhan



Fig.19: Printerocate event snapshots

2. **Model Design competition on IoT application:** On September 24, 2024, the IEEE MTT-S HIT Student Branch Chapter, in collaboration with the Department of Electronics and Communication Engineering (ECE), hosted a Model Design Competition on IoT Applications in the Project Lab. The event featured twelve student groups presenting innovative IoT-based solutions to real-world challenges. Topics ranged from Smart Irrigation Systems and Weather Monitoring to Biometric Attendance Systems and Smart Home Applications, highlighting IoT's versatility. The projects were judged by a distinguished panel, including Prof. (Dr.) Subrata Mondal, Prof. (Dr.) Debadatta Ghosh, Prof. (Dr.) Chanchal Kumar Dey, and other ECE faculty members. The competition encouraged technical innovation and teamwork. Winners were announced during the 29th Foundation Day celebrations on September 25, 2024, with the top three models receiving cash prizes.

Date: 24th August, 2024

Number of participants: 46

Program Coordinator: Dr. Avisankar Roy, Mr. Surajit Mukherjee

Resource Person: Dr. Dibyendu Chowdhury, Mr. Atanu Pradhan



Fig. 20: IoT Model competition snapshots

- IEEE Day Celebration:** On 1st October 2024, IEEE Day was celebrated by the IEEE MTTS SBC in the ECE department, with our HOD sir, faculty members, and student coordinators highlighting the importance of innovation and collaboration. The event fostered camaraderie between students and faculty, marking a memorable celebration of technological progress. IEEE Day recognizes the global community of engineers and technologists working together to advance technology for humanity. It underscores IEEE's role in fostering innovation and knowledge-sharing, keeping both students and professionals at the forefront of technological advancements.

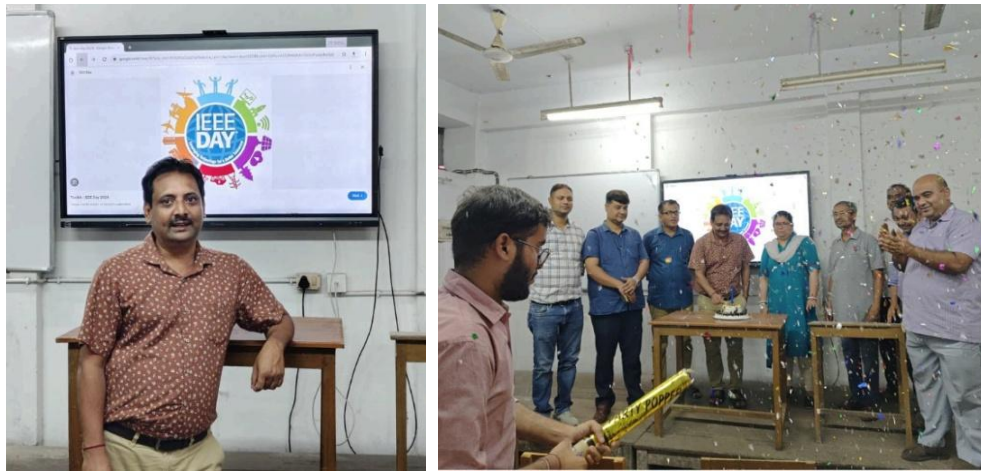


Fig. 21: Snapshots of IEEE day celebration 2024

AY 2023-24

1. **Seminar on Sustainable Energy:** On the 11th of March 2024, the Department of Electronics and Communication Engineering, in association with the IEEE MTT-S Students Branch Chapter, Haldia Institute of Technology, organized a one-day seminar on 'Sustainable Energy'.

The event commenced with an inaugural speech from Prof. Dr. Subrata Mondal (Principal), emphasizing the efficient utilization of solar energy and the imperative for building a future with sustainable energy. Prof. Dr. Chanchal Kumar De (HOD, ECE Dept.) also addressed the participants on the same topic.

Prof. Dr. Partha Pratim Roy (Department of Physics, Jadavpur University) took the stage to present his views on solar cells and the efficient usage of solar energy. Detailed explanations were provided on the generations of solar cells and the current challenges in harnessing their true potential. The lecture revolved around the conversion process of photovoltaic energy, the working principle of organic solar cells, along with their advantages and drawbacks.

Prof. Dr. Sudipta De (Department of Mechanical Engineering, Jadavpur University) focused on the current and future trends of the Indian power and energy sector. Sustainable energy and a sustainable future, being the need of the hour, were the epicentre of his speech. Energy conversion management and its proper implementation were discussed at the end.

Date: 11th March, 2024

Number of participants: 80

Program Coordinator: Dr. Avisankar Roy, Dr. Himadisekhar Das

Resource Person: Dr. Partha Pratim Roy, Dr. Sudipta De

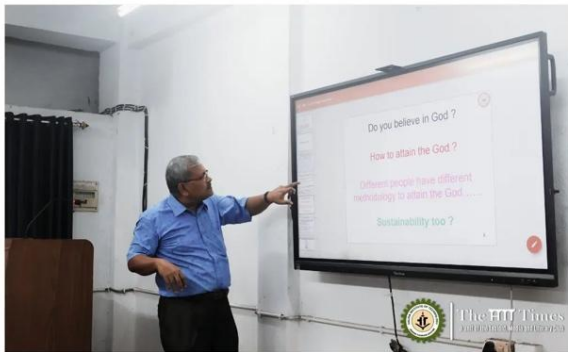


Fig. 22: Snapshots of the one-day seminar on sustainable energy

2. Seminar on Renewable Energy Integration in Smart Grid Environment:

Haldia Institute of Technology buzzed with intellectual energy on the 2nd of January 2024, as the IEEE MTT-S HIT SBC hosted a one-day seminar on "Renewable Energy Integration in Smart Grid Environment." The distinguished speaker for the event was none other than Prof. Ramesh Bansal. He is an esteemed figure from the Department of Electrical and Computer Engineering at the University of Sharjah, UAE.

The seminar began with a friendly welcome to Professor Ramesh Bansal. He was then introduced to the audience, who got a short but meaningful introduction to his vast knowledge and experience.

Prof. Bansal gave a great presentation that helped us understand more about how we get our energy. He explained ways in which we can get energy that is better for the environment. He talked about types of renewable energy called small hydro and photovoltaic (PV) systems which were interesting to learn about. The speaker talked about how we get our energy from different sources, some of which are renewable, while others will eventually run out - non-renewable. He explained why renewable energy is better for the environment and will last longer.

Prof. Bansal talked about smart grids and how they are different from traditional ones. He explained how smart grids use modern technology to improve their efficiency and reliability. The attendees learned how smart grids can provide better service and more benefits to people.

The well-organized event by IEEE MTT-S HIT SBC ensured that the seminar was a successful and enriching experience.

Date: 2nd January, 2024

Number of participants: 76

Program Coordinator: Dr. Avisankar Roy, Mr. Surajit Mukherjee

Resource Person: Prof. Ramesh Bansal

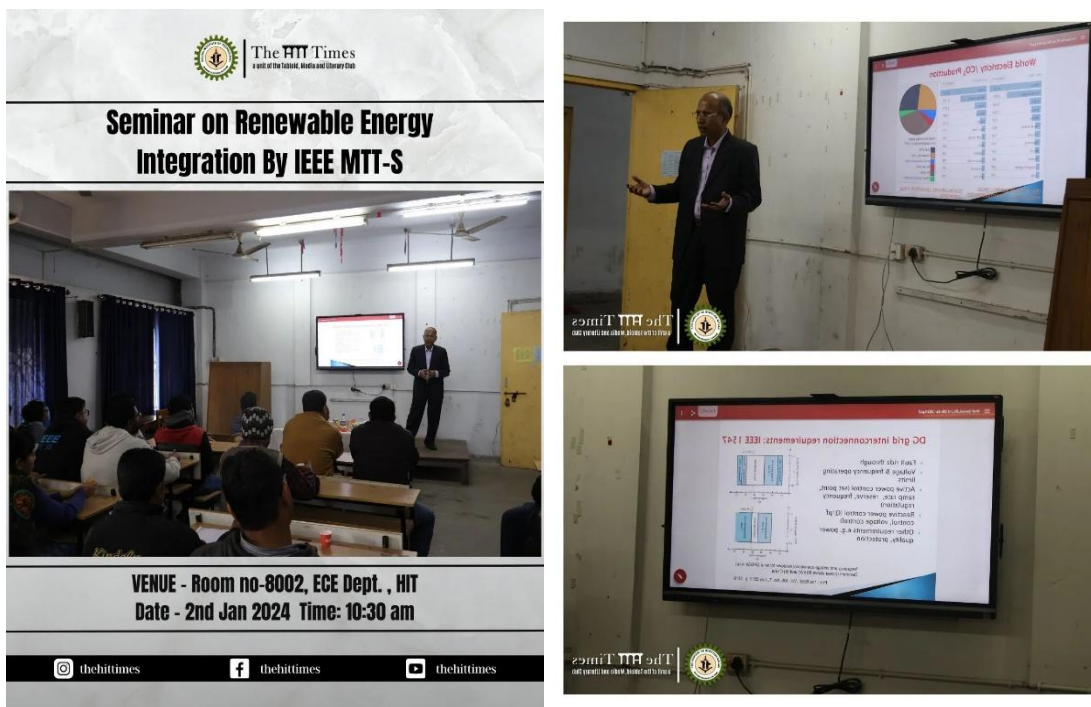


Fig. 23: Snapshots of the one-day seminar on Renewable Energy Integration in Smart Grid Environment

3. **IEEE MTT-S celebrated IEEE Day:** On the 3rd of October 2023, the Student Branch Chapter of IEEE MTT-S of Haldia Institute of Technology celebrated IEEE Day. The celebration started with an introductory speech by Prof. Dr. Avisankar Roy Sir. He expressed his views about the IEEE Society and the benefits of membership. He also educated the students about the distinct types of events, workshops and conferences organised by IEEE and their role in enhancing the skills of the individuals. After a while, the Chairperson of the Society, Miss Sulogna Bhattacharya explained to the students the importance of the IEEE day. The significance of the day could be traced back to 1884 when some of the great minds met for the first time in Pennsylvania to share technical ideas. She further highlighted IEEE MTT-S as a good platform for information interchange, beneficial for shaping our future. The event concluded with a cake-cutting session done by HOD Prof. Dr. Chanchal Kumar De and Chairperson Miss Sulogna Bhattacharya in the presence of other faculty members of the ECE department.



Fig. 24: Snapshots of IEEE Day Celebration 2023

Events Organized under GDG

AY 2024-25

1. **Offline Technical Quiz Contest The QuizHIT:** The QuizHIT, organized by GDG On Campus HIT, provided an interactive platform for participants to showcase their technical knowledge and competitive skills. The event emphasized the significance of teamwork, strategic thinking, and accuracy in fast-paced

environments. It served as a remarkable opportunity for students to connect, learn, and grow both academically and socially in the field of technology.

Date: 24th January 2025

Number of participants: 70

Event Lead: Rishabh Kumar (Lead, GDG On Campus HIT)

Event Coordinator: GDG HIT Student Volunteers

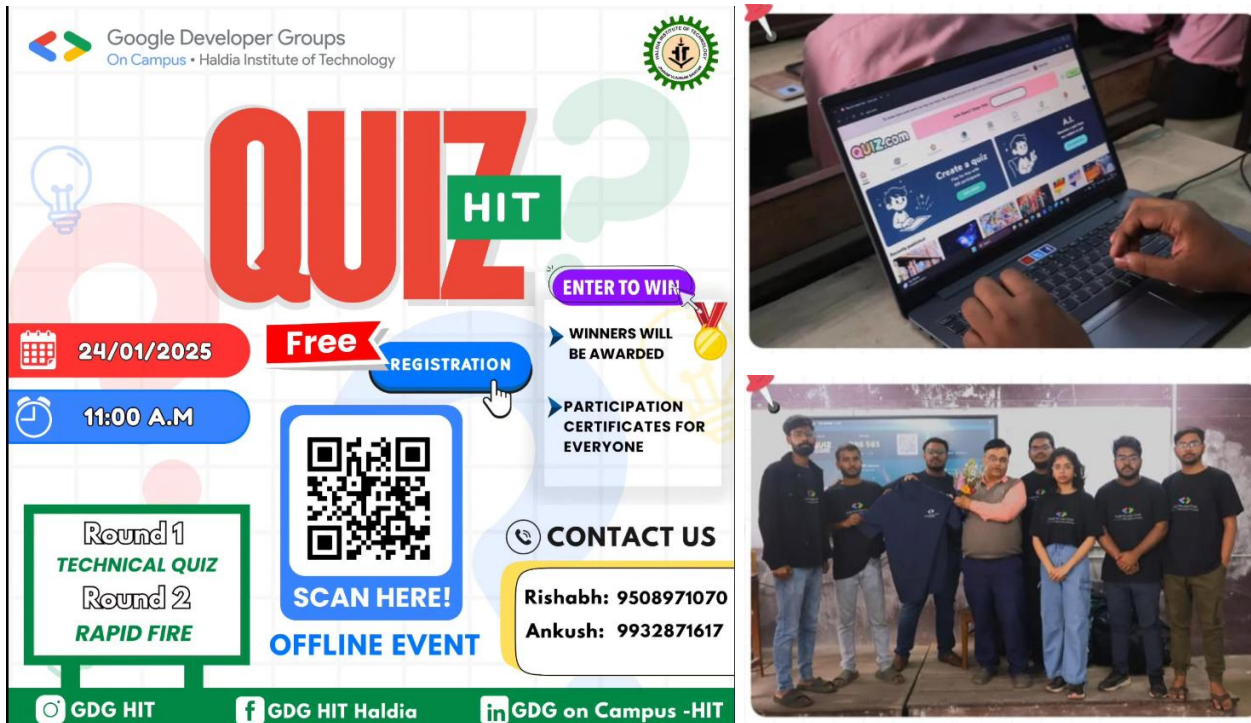


Fig. 25: Snapshots offline technical quiz contest the quizhit

2. **Gen-AiSwagdistribu** : The Gen AI Swag Distribution Event hosted by GDG HIT was a grand success. Attendees received exclusive GDG-branded swags, including T-shirts, stickers, and accessories. The event celebrated the advancements in Generative AI, fostering community engagement and discussions. Participants enjoyed networking opportunities and shared their AI learning experiences. The event concluded with smiles, memorable moments, and a stronger GDG HIT community bond.

Date-January 23, 2025

No. Of Participants. - 85

EventLead-Rishabh Kumar (GDG HIT Lead)

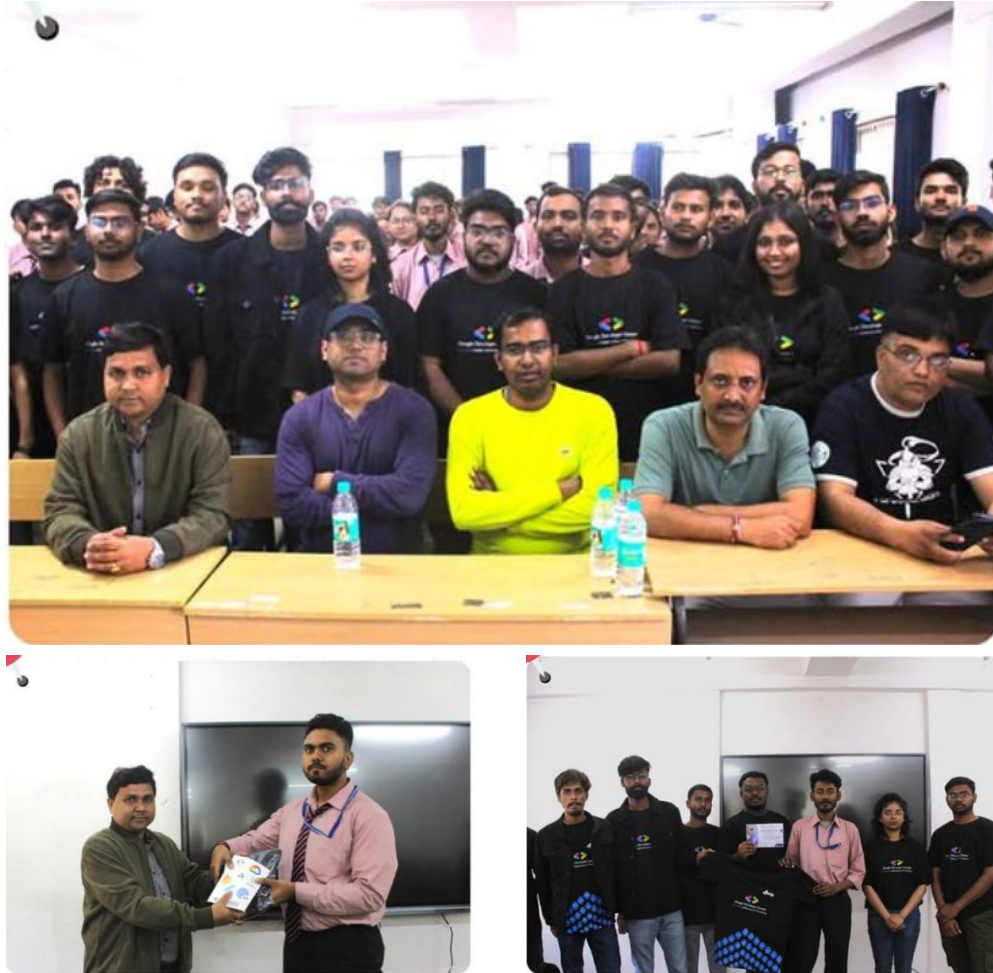


Fig. 26: Snapshots of **Gen-AiSwagdistribui**

- 3. OnlineAndroidBootcamp:** The 5-day Android Bootcamp hosted by GDG HIT successfully equipped participants with essential app development skills. Industry experts led sessions on Kotlin, Jetpack Compose, Firebase, and best practices. Hands-on coding exercises and real-world projects enhanced learning. Interactive Q&A sessions and mentorship provided valuable guidance. The event concluded with a project showcase, celebrating participants' innovation and growth.

Date- December 23-27, 2024

No. OfParticipants- 400

Event Lead- Chinmay Verma, App Dev Lead(GDG HIT)

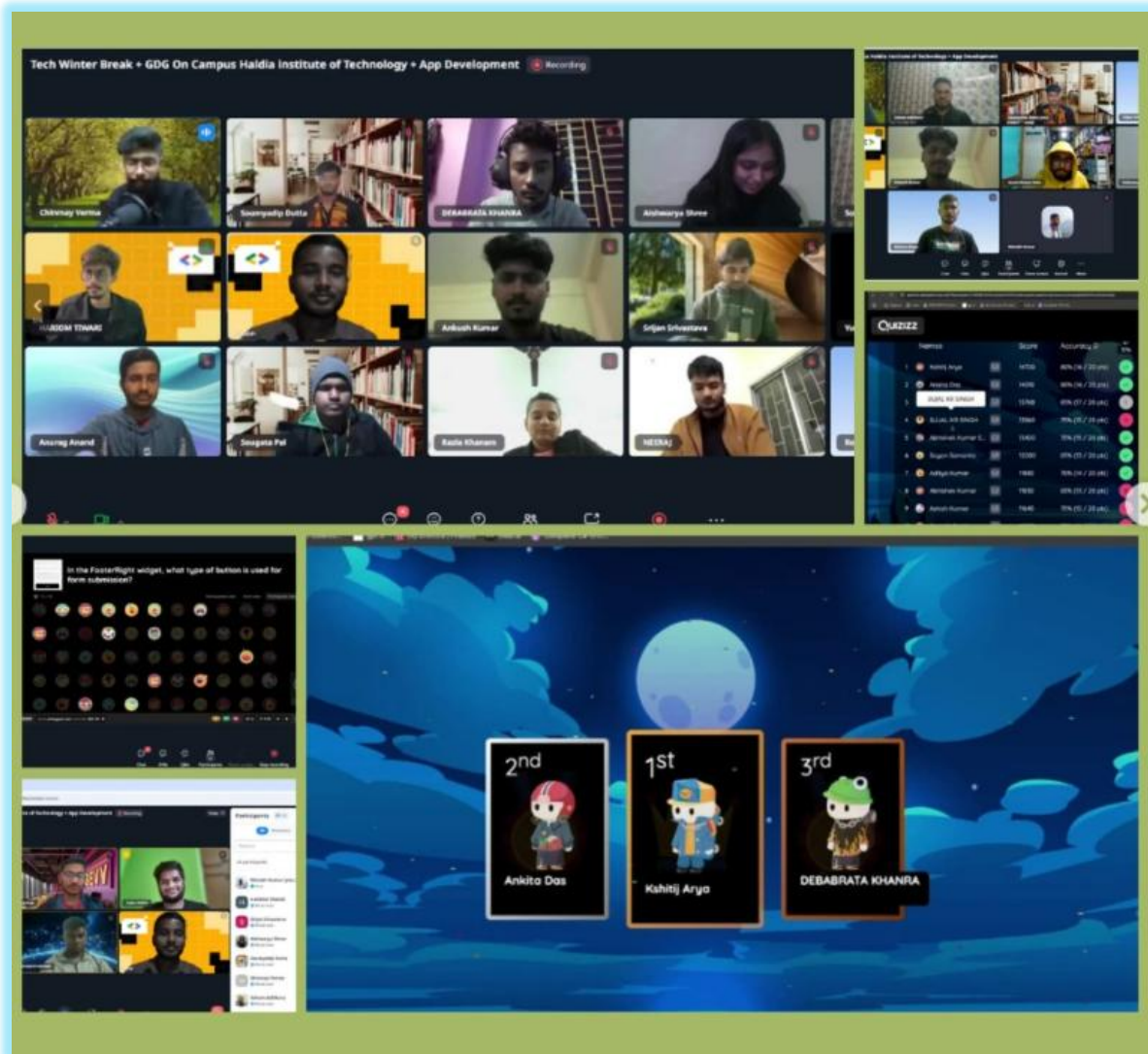


Fig. 27: Snapshots of *onlineAndroidBootcamp*

- OnlineUi/UxBotcamp:** The Online UI/UX Bootcamp hosted by GDG HIT was a resounding success, bringing together aspiring designers and industry experts. The event covered key UI/UX principles, prototyping, and design tools, helping participants enhance their skills. Engaging workshops and hands-on projects provided real-world experience. Attendees praised the interactive sessions and mentorship opportunities. The bootcamp concluded with a showcase of participant projects, celebrating creativity and innovation.

Date- November 10,2024

No. Of participants- 449

EventLead- Arijit Dutta, Graphics Design Head (GDG HIT)

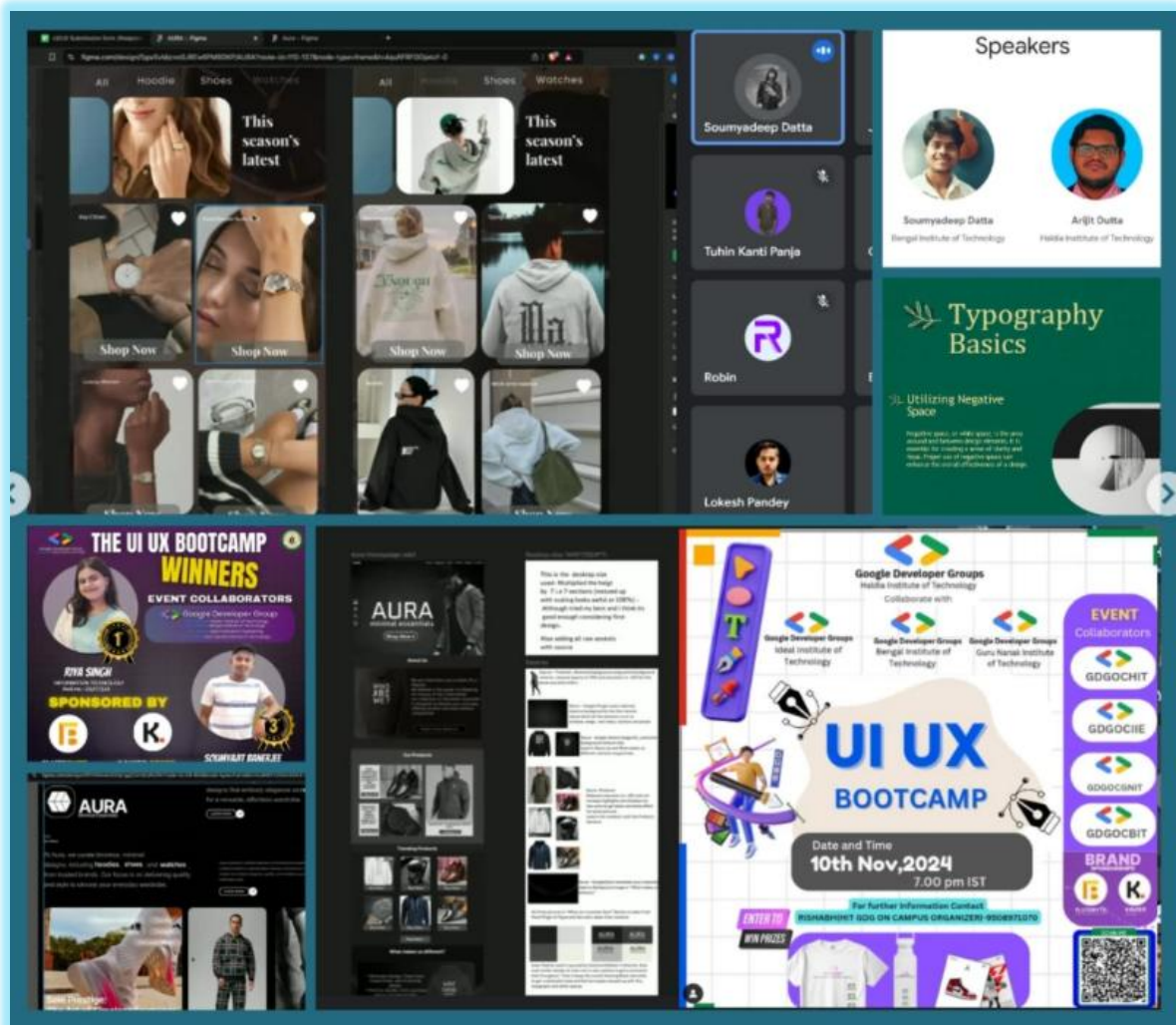


Fig.28: Snapshots of **onlineUi/UxBootcamp**

- Online Learning Event Gen AI Study Jam:** The Gen AI Study Jam, organized by GDG, offered an exciting opportunity for students to explore the developing potential of Generative AI, with its integration in many fields. With hands-on experience and collaborative learning, 97 out of 120 participants completed all labs under the Study Jam, earning GDG On Campus HIT a Tier-1 mark and a Top-10 completion ranking among all the participating colleges. Also the participants who finished all the labs, earned their eligibility for swags and goodies.

Date: 1st October to 1st November 2024

Number of participants: 120

Event Lead: Rishabh Kumar (Lead, GDG On Campus HIT)



Fig. 29: Snapshots of online learning event Gen AI study Jam