



GOVERNMENT COLLEGE OF ENGINEERING AURANGABAD, CHH. SAMBHAJINAGAR

(An Autonomous Institute of Govt. of Maharashtra)

Railway Station Road, Osmanpura, Chhatrapati Sambhajinagar.

“In Pursuit of Technical Excellence”

☎ - office: (0240) 2366101, 2366102, 366111

e-mail – office.gcoaurangabad@temaharashtra.gov.in

web : www.geca.ac.in



C³ (C Cube) Report

The C³ (C Cube) Club at Government Engineering College Aurangabad, Chhatrapati Sambhajinagar, was established with the primary objective of fostering a vibrant coding culture among students and providing hands-on experience with cutting-edge technologies. Under the guidance of faculty advisor **Dr. Vikul J. Pawar**, the club aims to empower students with practical coding skills and prepare them for the challenges of the digital age.

The club's mission is multifaceted. It seeks to promote a **culture of coding and innovation**, provide a platform for students to enhance their programming skills, facilitate learning and exploration of emerging technologies, encourage collaboration and teamwork, **promoting participation in hackathons**, and organize workshops, coding competitions, and guest lectures to enrich the learning experience. The club stands out among its peers due to its distinctive commitment to **collaboration** with **local administrations** and **government bodies**. By actively engaging in partnerships, the club aims to address and resolve their pertinent problem statements, contributing directly to community welfare and sustainable development.

The C³ Club was founded by Ahmar Hilal, Pratik Wayal, Riddhi Vernekar, Sagar Madankar, Animesh Yadav, and Shreyas Deshmukh. The head of the previous term was **Ahmar Hilal**, with **Pratik Wayal** serving as the Secretary, and together they now form the **Advisory Committee**. The leadership for the current term is headed by **Animesh Yadav**, with **Shreyas Deshmukh** as the Secretary and **Shivam Singh** as the Treasurer. The club consists of **37 active members**, with 2 Head Coordinators, and **5** specialized teams working collaboratively to achieve its goals:

- ❖ Technical Team: 11 members
- ❖ Design Team: 4 members
- ❖ Documentation Team: 5 members
- ❖ Event Management Team: 7 members
- ❖ Digital & Social Media Team: 4 members

Events conducted by the club:

Club Inaugural Ceremony

Date: March 30, 2024

Venue: Electrical Seminar Hall

Guest: Mr. Satyam Avhad (Director of GroundUp, Co-founder Hopify Technologies)

The inaugural ceremony of the C³ Club was held on March 30, 2024, with great enthusiasm and participation from students and faculty alike. **Mr. Satyam Avhad**, Director of GroundUp & Co-founder of Hopify Technologies, graced the occasion as the esteemed guest.

The event unfolded with an opening ceremony that set the tone for the proceedings. The Faculty Advisor, Dr. Vikul J. Pawar delivered an inspiring speech, emphasizing the importance of coding skills in today's digital age and encouraging students to actively participate in the club's activities.

The Principal Sir, in his speech, also underscored the significance of coding skills, inspiring students to delve into this pivotal field. His encouragement further fueled the enthusiasm among attendees.

Mr. Satyam Avhad's speech captivated the audience as he shared **valuable insights** and experiences from his journey in the tech industry. His words resonated with aspiring coders, motivating them to pursue their passion and embrace innovation. He conducted an **interactive session** on initiating and managing **startups**, providing practical insights gleaned from his own experiences. Later, he facilitated a **Q&A** session, addressing queries from the audience, which enriched the learning experience.

Moreover, it's commendable to mention that Mr. Satyam Avhad's collaboration with the government to extend educational opportunities to underserved communities underscores his commitment to leveraging technology for social good, thus inspiring attendees to consider the broader impact of their coding endeavors.

A comprehensive **PowerPoint presentation** was then showcased, detailing the formation and objectives of the C³ Coding Club. The presentation outlined the club's vision, mission, and planned activities, igniting excitement among the attendees.

The ceremony concluded with the official launch of the **club's website**, marking a significant milestone in its journey. The website will serve as a platform for members to stay updated on upcoming events, access resources, and collaborate on coding projects.

Overall, the inaugural ceremony of the C³ Coding Club was a resounding success, leaving attendees inspired and eager to embark on a journey of learning and exploration in the world of coding.





Git & GitHub Workshop

Date: April 4, 2024

Venue: Research Lab, Computer Science Department

Speaker: Ahmar Hilal

C³ Club successfully organized a **hands-on workshop** on Git and GitHub on April 4, 2024. Led by speaker Ahmar Hilal, third year CSE student and C³ President, the event aimed to introduce participants, predominantly first-year students, to the **fundamentals of version control** using Git and collaborative platforms like GitHub. With **36** attendees in total, the workshop received a positive response from the audience, highlighting a keen interest among newcomers in mastering these essential tools. Notably, the presence of Faculty Advisor Dr. Vikul J. Pawar added prestige to the event, as his insights and encouragement further enriched the learning experience.

The interactive nature of the workshop facilitated active participation, allowing attendees to engage directly with the material and gain hands-on experience. With a successful debut, C³ Club aims to continue providing valuable opportunities for students to enhance their technical skills and knowledge in software development.



An upcoming **open-source contribution** event is currently being organized by C³ (C Cube) Club, wherein students will be afforded the opportunity to engage in projects spanning various domains. Detailed planning and coordination are underway to ensure a seamless execution of the event, with careful consideration given to project selection, mentorship availability, and participant engagement strategies.

COSP 1.0 (C³ Open Source Program)

C³ (C Cube) Club has been conducting an ongoing **online open-source contribution program** aimed at fostering collaboration, innovation, and community engagement among coding enthusiasts. This report aims to provide an overview of the event, its objectives, participation, outcomes, and the diverse project domains encompassed within.

The C Cube Open-Source Contribution Program, COSP 1.0 provides a continuous opportunity for individuals passionate about coding to **contribute** to various projects spanning a wide array of domains. From **Android** to **AR/VR**, participants engage in projects, share ideas, and become an integral part of a vibrant community. The event is conducted entirely **online**, ensuring accessibility and participation from a diverse audience.

The inauguration of this esteemed event took place on **10th June 2024**, in an online session presided over by **Mr. Mahendra Garodi**, an esteemed **alumni** of our college's Computer Science department. Mr. Garodi, currently a Senior Software Developer at **Apple**, brought valuable insights and inspiration to the event, marking the official commencement of the program.

Project Domains:

1. Android
2. Kotlin
3. Web Development
4. Data Science
5. Django
6. React
7. Machine Learning
8. Computer Vision
9. Image Processing
10. Natural Language Processing (NLP)
11. Web Scraping
12. Cybersecurity
13. Data Structures
14. Algorithms
15. Data Visualization
16. Database Management
17. Version Control
18. Augmented Reality/Virtual Reality (AR/VR)

The C Cube Ongoing Open-Source Contribution Program witnesses' **enthusiastic participation** from coding enthusiasts across various domains and skill levels. Participants actively engage with projects, submit valuable contributions, and collaborate with peers to drive meaningful outcomes.

Participants are encouraged to actively engage with projects within their domain of interest. Contributions are recognized through a points-based system, rewarding participants for their involvement and dedication to the community. Accumulated points can be redeemed for **exclusive swag prizes**, adding an element of fun and excitement to the program.

As the club continues to evolve and expand its ongoing initiatives across diverse domains, the spirit of collaboration and open-source contribution remains at the core of its mission, driving positive change and empowering individuals to make a meaningful impact in the world of coding.

M.O.U at Greaves Cotton

The C³ (C Cube) Club recently engaged in discussions with Greaves Cotton Ltd., a leading Indian engineering company specializing in clean technology powertrain products. Our collaboration aims to develop a software solution to automate manual processes within Greaves Cotton's operations.

On June 3, 2024, our team visited Greaves Cotton's facility in Chikalthana, Chhatrapati Sambhajnagar to initiate discussions and gather insights for the software development project. The club delegation was warmly welcomed by Mr. Atul Jahirabadkar, Head of Research and Development at Greaves Cotton. Mr. Jahirabadkar provided essential guidance and insights into the project requirements.

During our meeting, Mr. Jahirabadkar outlined the need for automation in several manual processes within Greaves Cotton. Our software solution aims to streamline these operations, enhancing efficiency and accuracy. Following our discussion, we toured Greaves Cotton's test sites to gain a deeper understanding of their operations. This firsthand experience allowed us to witness the challenges faced by the company and identify areas where automation can make a significant impact.

Our immediate priority is to finalize the system design and commence the development phase. We will work closely with Greaves Cotton's team to ensure that the solution aligns with their requirements. Additionally, we will explore opportunities to obtain SRS certification for the software, demonstrating our commitment to quality and compliance.

The collaboration between the C³ Club and Greaves Cotton represents an exciting opportunity to leverage technology for operational improvement. We are confident that our software solution will deliver tangible benefits to Greaves Cotton, enhancing their competitiveness and efficiency in the market.



Academic Calendar

	Events	Timeline
1.	COSP 2.0	Starting from the winter break and lasting until the end of January.
2.	COSP 3.0	From the summer break until the end of the semester.
3.	CP Contest	A recurring event that will take place biweekly every month.
4.	CP Leaderboard	A recurring event that runs from the start of every month until the end, where the CP leaderboard will be presented, and winners will be awarded a cash prize pool.
5.	Champions League	A recurring event starting on the 5th of every month and lasting until the 25th.
6.	SIH Workshop	Held at the start of every odd semester.
7.	CSS War	A monthly competition focused on front-end design.
8.	Mock Placement Drive	A bi-monthly event, primarily in even semesters, designed to train students by providing realistic interview experiences.
9.	Meme Mania	A collaborative event in which students are tasked with creating memes based on tech-related fields every month.
10.	UI/UX Competition	A monthly design competition using tools like Figma and Canva.
11.	Alumni Talks	Connecting with alumni every month to gain insights from their experiences.
12.	Resume Building Workshop	A session focused on teaching students how to create a personalized resume.
13.	Industry Projects	Signing MOUs and solving problem statements provided by government bodies.

Smart India Hackathon (SIH) Workshop

Date: August 28, 2024

Venue: Electrical Seminar Hall

On August 28, 2024, the C³ Club hosted an engaging **workshop** featuring the **winning team** of the **Smart India Hackathon 2022**. The team, comprised of students from MGM's JNEC — Gaus Mohiuddin Sayyad, Deepanshu Sharma, Mawwiz Shaikh, and Sanket Pawar — conducted an interactive session that provided invaluable insights into their successful hackathon experience.

During the session, the team shared their journey from ideation to execution during the hackathon. They discussed the challenges they faced, the strategies they employed, and how effective collaboration was crucial to their success. Their presentation was filled with practical examples, technical insights, and tips on how to effectively tackle real-world problems through coding.

The audience **actively participated** by asking questions and seeking advice on various aspects of hackathons, such as team dynamics, project selection, and time management. The interactive nature of the workshop fostered an enthusiastic atmosphere where students could learn directly from the experiences of their peers.

Adding to the event's impact, Faculty Advisor **Dr. Vikul J. Pawar** delivered a motivational speech that emphasized the importance of persistence and creativity in the coding landscape. He encouraged students to embrace challenges as learning opportunities and to engage actively in hackathons and coding competitions.

Overall, the workshop was a great success, leaving students motivated and excited to explore coding further. It reinforced the club's mission to promote innovation and teamwork among students.





Monthly Mania

Inauguration Date: October 2024 (Upcoming)

The C³ Club is excited to announce "**Monthly Mania**", launching next month. This initiative aims to cultivate a robust coding culture within the college by providing students with regular opportunities to enhance their skills through competition and collaboration.

Monthly Mania will feature several exciting components designed to engage students across different skill levels. One of the key features will be a **competitive programming leaderboard** that tracks participants' progress and achievements throughout the semester. This leaderboard will encourage students to consistently improve their coding skills and strive for excellence in programming.

Another exciting part of Monthly Mania is the **Champions League**, where students will work on projects in different areas. This allows them to apply what they've learned in real-life situations and develop their skills further.

Furthermore, Monthly Mania will host **biweekly coding contests** that will challenge students to solve problems under timed conditions. These contests are designed to promote friendly competition and motivate students to sharpen their coding skills in a fun and engaging way. Participants will have the chance to showcase their problem-solving abilities and creativity, with **rewards for top performers** to add an element of excitement.

The C³ Club envisions Monthly Mania as a platform that not only enhances coding skills but also strengthens the sense of community among students passionate about technology. By promoting regular engagement and collaboration, the club aims to inspire students to take an active interest in coding and to prepare them for future challenges in the tech industry.

With the launch of Monthly Mania, the club is dedicated to creating a supportive environment that helps students grow as innovators and problem solvers. The club is looking forward to the enthusiastic participation of students eager to join this coding adventure.

Intro to Code

Date: September 30, 2024

Time: 5:30 PM – 7:00 PM

Venue: Engineering Exploration Lab

On September 30, 2024, the C³ Club organized a hands-on introductory coding session titled "**Intro to Code**" exclusively for first-year students. The event, held in the Engineering Exploration Lab, was designed to provide a strong foundation for students beginning their coding journey. The session aimed to equip participants with the essential tools and software needed for coding, making the transition into programming smoother.

The event covered the installation and setup of several commonly used development environments and coding tools, including:

- **VS Code (Visual Studio Code)**
- **MinGW**
- **IntelliJ IDEA**
- **PyCharm**
- **Turbo C++**

In addition to setting up these tools, participants were also introduced to the basics of **Git** and **GitHub**, including their installation and basic usage. This was an essential step in familiarizing first-year students with version control, which is an integral part of modern software development.

With around **50** participants, the session was well-received, creating an enthusiastic atmosphere where students could learn the practical aspects of coding and collaboration. The event was primarily organized by second-year students of the C³ Club, with **Himanshu Mishra** serving as the main speaker. He was supported by the entire team of **second-year** students from the club, whose collective efforts ensured the smooth running of the event. Their assistance was crucial in handling the technical aspects of the workshop and providing one-on-one guidance to the participants.

The "Intro to Code" workshop was a valuable initiative aimed at providing first-year students with the necessary tools and skills to begin their coding journey. It was a great success, helping participants get started with coding environments and version control systems that are pivotal in their academic and professional development.

