



GOVERNMENT COLLEGE OF ENGINEERING AURANGABAD

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C³ (C Cube) Report

The C³ (C Cube) Club at Government Engineering College Aurangabad, Chhatrapati Sambhajnagar, 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. **Pratik Wayal** serves as the general secretary of the club, contributing to its mission of promoting coding literacy among the student body.

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.

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 Chikalhana, Chhatrapati Sambhajinagar to initiate discussions and gather insights for the software development project. The club delegation was warmly welcomed by **Mr. Atul Jahirabdkar, General Manager** at Greaves Cotton. Mr. Jahirabdkar provided essential guidance and insights into the project requirements.

During our meeting, Mr. Jahirabdkar 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.

