# Inter Institute Hackathon 2024

## Important Dates:

Last date for registration: 12 September 2024

Event: To be announced

**Registration Fee:**No Fee

**Prize:**There will be three (First, Second and Third) prizes. Decision of the Evaluation panel members based on the performance of the team will be final.
There will not be any prizes for problem statement and category wise.

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| **Prize** | 1st Position – 10,000<br>2nd Position – 7,000<br>3rd Position – 5,000 |

## Category:

1. Hardware
2. Software
3. Hybrid (Hardware and Software)

**Venue:**Block-C, Government Engineering College, Raipur, Chhattisgarh

## Hackathon Rules

- **Team Formation:** Participants can form teams of 2 to 6 members andall the team members should be from the same Instituteandstudents must be enrolled in an undergraduate program in any institution recognized by AICTE.
- Registration is compulsory for all the teams who want to participate.
- **Project Scope:**Projects must be original and created during the hackathon. Use of existing code or projects is prohibited. Ensure your project aligns with the hackathon's theme or challenge.Teams can work on any of the given problem statements.
- **Time Limit:** The Hackathon will have a timeduration of 10:30am to 4:30pmtotal 6:00 Hours, out of which evaluation process will be started on 2 P.M.Ensure you submit your project before the deadline. Late submissions will not be accepted.

- **Code Ownership:** All code developed during the Hackathon should be the original work of the team. Participants cannot use code or assets created by someone else without proper permissions or licenses.

- **Collaboration:** Teams are encouraged to collaborate and seek help from mentors or organizers, but cross-team collaboration is not allowed during the competition.

- **Presentation:** Each team will have to present their project to the judging panel. The presentation should demonstrate the functionality and features of the project, as well as any unique or innovative aspects.

- **Judging Criteria**: The judging criteria for the Hackathon will be clearly communicated to the participants before the event. The result by the judge will be final. It may include aspects such as innovation, technical implementation, user experience, scalability, and relevance to the theme.

- **Fair Play:** Participants must adhere to ethical standards and abide by the rules and regulations set by the organizers. Any form of cheating, plagiarism, or unfair practices will result in immediate disqualification.

- **Intellectual Property:** Participants retain full ownership of the intellectual property rights to their projects. However, organizers may request participants to share their code or project details for promotional or showcase purposes.

- **Code Submission:** Teams must submit their code and project documentation before the specified deadline. Late submissions may result in penalties or disqualification.

- **Code Validation:** Organizers may conduct code validation to ensure that the project was developed within the given time frame and complies with the rules and regulations.

- **Code Sharing:** Participants are encouraged to share their code and projects with the wider community after the Hackathon. Open sourcing or publishing the code on platforms like GitHub is often appreciated.

- **Code of Conduct:** Participants should adhere to a code of conduct that promotes inclusivity, respect, and professionalism. Any form of harassment, discrimination, or inappropriate behavior will not be tolerated.

- **Prizes and Awards:** The Hackathon will offer prizes or awards to winning teams based on the judging criteria. The prizes will include cash and a certificate by the organizers.

- **Disputes and Arbitration:** In case of any disputes or concerns, the decision of the organizers and judging panel will be final. Any disagreements or issues should be resolved through an arbitration process outlined by the organizers.

- **Liability:** The organizers of the Hackathon hold no liability for any damages, losses, or injuries incurred during the event. Participants are responsible for their own safety, equipment, and actions.

- **Changes to the Rules:** Organizers reserve the right to make changes to the Hackathon rules, format, or prizes at any time. Any modifications will be communicated to the participants in a clear and timely manner.
- **Consent and Media Release:** Participants may be required to provide consent for their photographs, videos, or project details to be used by the organizers for promotional or media purposes.

**Note: Students need to bring their own Hardware modules for H/W Category Projects. There will be no TA/DA for the participants.**

## Contact:


1. **Mr. Manjeet Singh Sonwani**
   **Assistant Professor, GEC Raipur**
   **Mob:7987523168**
2. **Mr. Ravi Kumar**
   **Assistant Professor, GEC Raipur**
   **Mob:7987465784**
3. **Mr. Sourabh Yadav**
   **Assistant Professor, GEC Bilaspur**
   **Mob:8871089917**
4. **Ms. Savita Sahu**
   **Assistant Professor, GEC Bilaspur**
   **Mob:700026717**
5. **Mr. Dilbag Mandloe**
   **Assistant Professor, GEC Jagdalpur**
   **Mob:7987110678**
6. **Mr. Piyush Tiwari**
   **Assistant Professor, GEC Jagdalpur**
   **Mob:8109280957**
7. **Mr. Jonty Choudhry**
   **Assistant Professor, GEC Jagdalpur**
   **Mob:7987376510**


### Contact us:

Government Engineering College, Raipur, Chhattisgarh is easily accessible as it is located on old dhamtari road raipur and is well connected by rail and road; having a reasonable distance from the airports, bus stands, railway stations etc.

# Statement of problems

## *Hybrid(H/W)*

**Hybrid Category 1**:-Prevention of Road Accidents Caused by Stray Animals.
Dataset: data set link
Background:Accidents involving stray cattle and other animals on roads pose serious risks, leading to injuries, fatalities, and property damage. The challenge is to develop innovative solutions that combine technology and infrastructure to detect animals on roads, alert drivers, and manage animal movement effectively. This could include sensors, GPS tracking, driver alert systems, and physical deterrents. The goal is to improve road safety and reduce accidents, protecting both drivers and animals.

**Hybrid Category 2**:-AI and ML powered IOT applications for Energy Management in Electric Vehicles Category

**Hybrid Category 3**:-Monitoring Of Remote Access Vehicle Using AI Based System

## *Hardware (H/W)*

**H/W Category 1**:-Develop a real-time monitoring of construction projects.

**H/W Category 2**:-Smart system to catch the motorcycle and car thief using artificial intelligence and machine learning.

**H/W Category 3**:-Design a robotic arm equipped with sensors and actuators to perform precise agricultural tasks such as planting seeds, applying fertilizers, or harvesting crops in a controlled environment.

**H/W Category 4**:-IoT integrated wearable devices

## *Software (S/W)*

**S/W Category 1**:-Design a game-based tool to aware kids about the law related to their rights.

**S/W Category 2**:-Design an artificial intelligence based system to count trees in order to use forest land for other things

**S/W Category 3**:-Application of Blockchain for any real scenario

**S/W Category 4**:-Dashboard for real time air pollution monitoring system.