

HACKATRONICS 2.0

Team-01: First Semester B.E Students.

1.Syeda Ummya

2.Musna Fanan

3.Zainab Farheen



Our project, *Digital Legacy Management*, addresses an important modern-day concern: what happens to a person's essential digital information after their death. In today's world, individuals store bank credentials, insurance details, personal documents, and final wishes online. When they pass away, families often struggle to access these digital assets. Our system provides a secure platform where users can store such sensitive information during their lifetime, ensuring it reaches the right person when needed.

The platform is built using Python, Flask, SQLite, and the Cryptography module to ensure strong encryption and controlled access. Users create an account, set a master passphrase, and upload their digital assets, which are stored only in encrypted form. When the owner passes away, the designated trustee submits the master passphrase, allowing the system to decrypt and reveal the stored information. This design maintains privacy, prevents unauthorized access, and ensures that digital assets are handled responsibly.

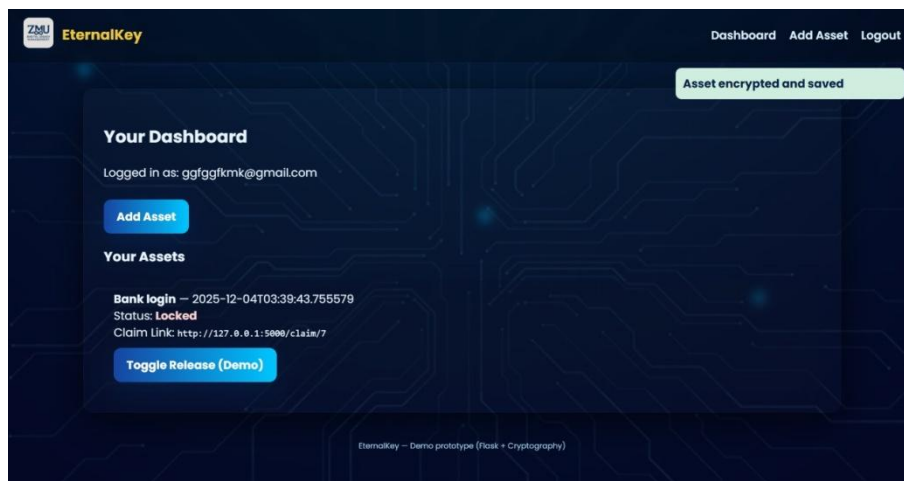
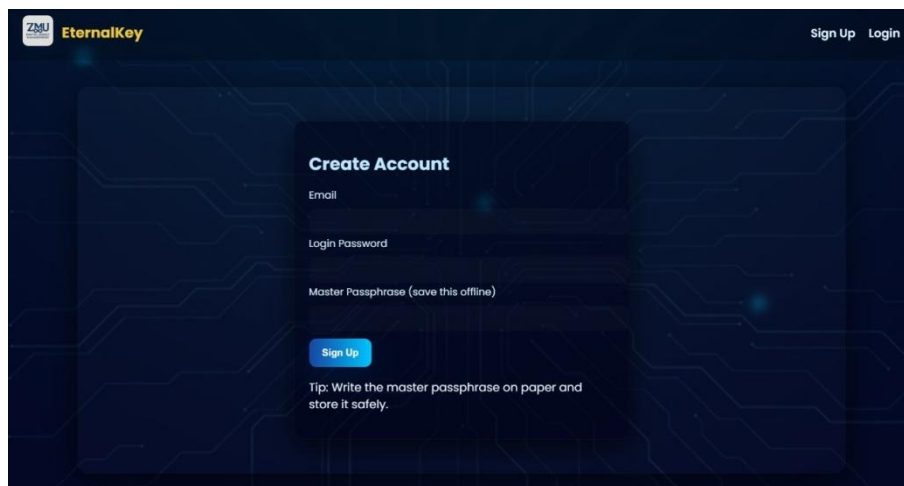
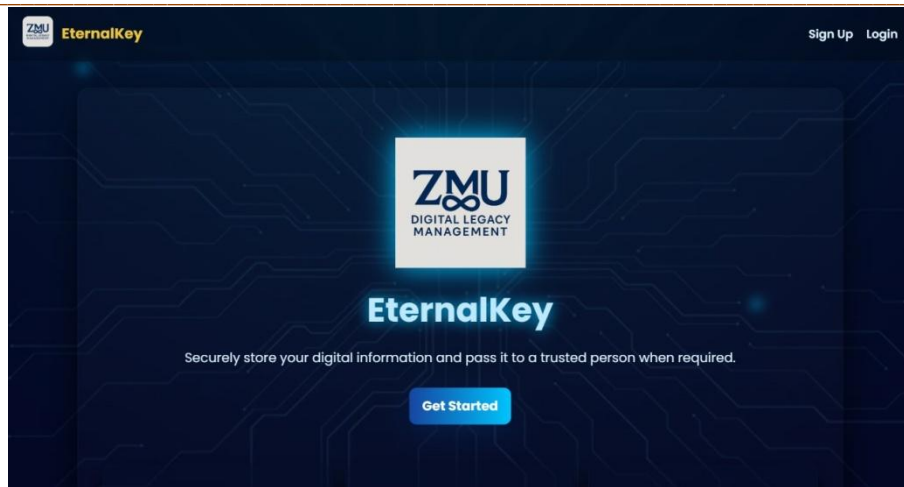
In essence, our system follows a simple but powerful flow: the owner adds information → the system encrypts it → the trustee verifies death and enters the master passphrase → the system securely unlocks the data. With this, we aim to protect individuals' digital lives even beyond their lifetime. *"What happens to your accounts when you're gone? We take care."*

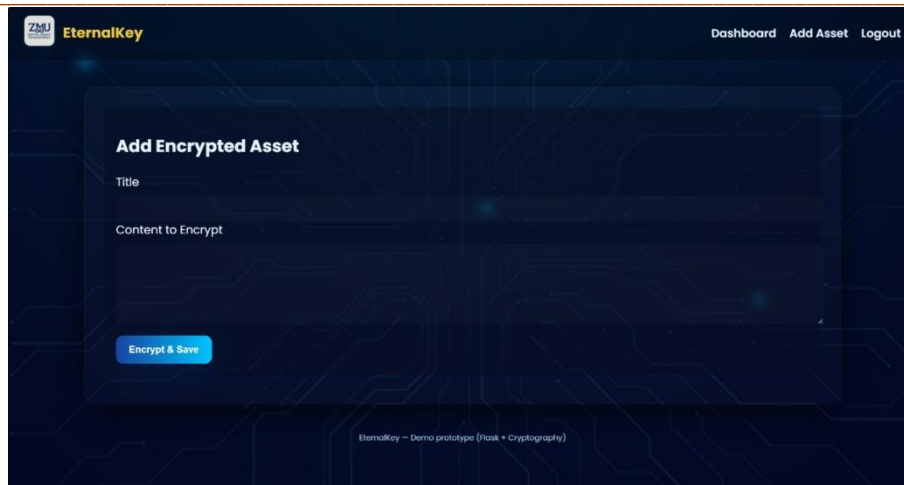


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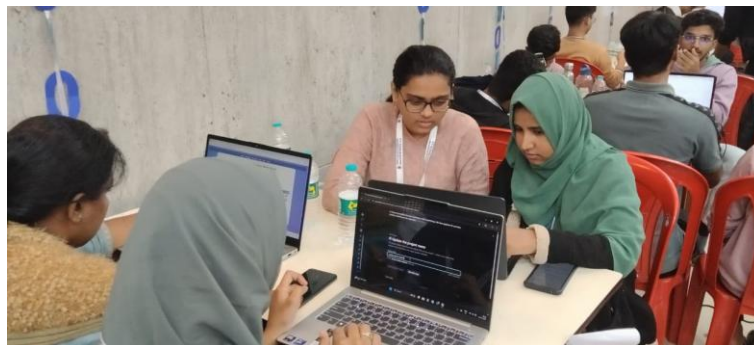
Team-02: Third Semester B.E Students.

1.Maimuna Firdose

2.Iffath Zuha

3.Chitra

4. Vijetha kaval



Our project, *STUDENTSPRO*, is designed to create a simple and efficient platform that helps students manage their academic journey with ease. The objective is to provide students with essential tools to track attendance, monitor academic performance, organize study materials, and develop healthy study habits. By combining productivity features with light recreational elements, the platform supports both academic growth and mental well-being.

The website includes multiple integrated modules: an attendance tracker that helps students maintain required attendance, an SGPA/CGPA calculator for quick performance evaluation, and a notes section for storing subject-wise study materials in one place. To support balanced learning, the platform also features mini-games that offer short, refreshing breaks and enhance logical thinking. Additionally, a focus-time tracker helps students practice distraction-free study sessions, improving consistency, productivity, and time management.

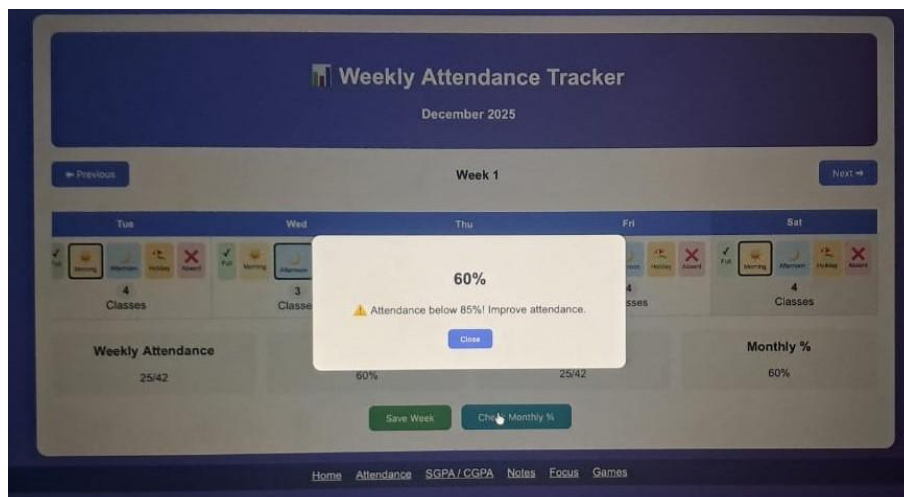
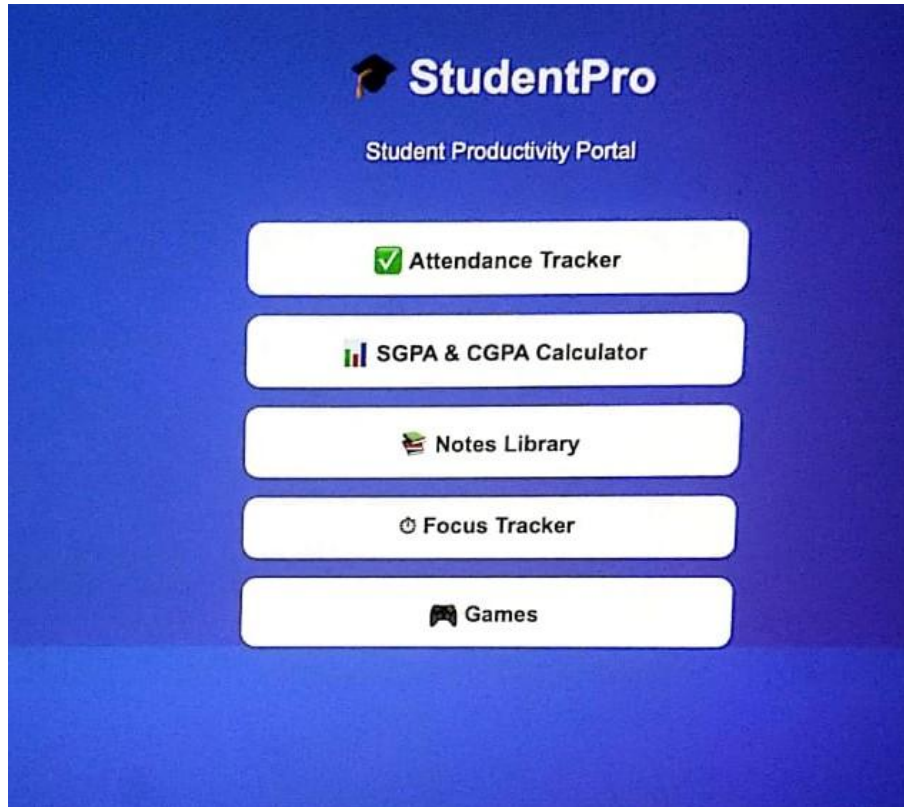


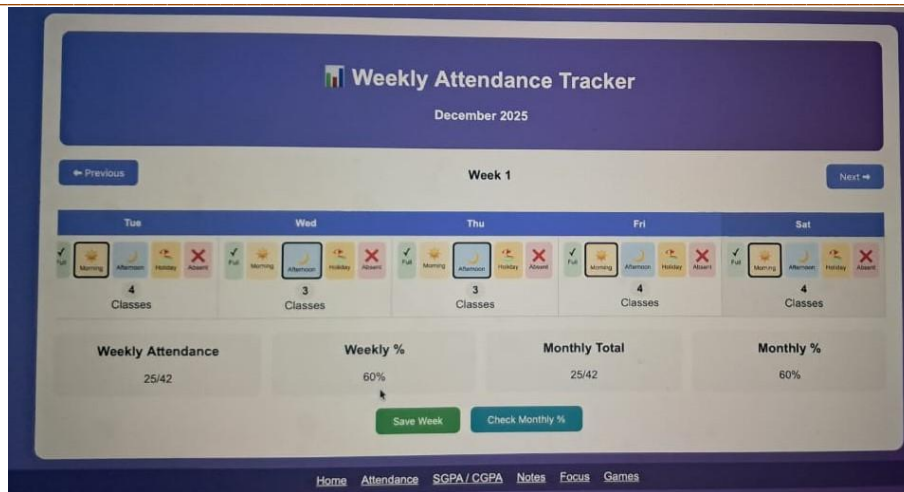
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Overall, *STUDENTSPRO* acts as a complete academic companion that helps students stay organized, motivated, and aware of their progress. By enabling them to track attendance, calculate grades, access notes easily, refresh their mind with games, and build better study routines, the application contributes to improved academic discipline and overall performance.





Team-03: Third Semester B.E Students.

1. Ayesha mujeeb
2. Wajahath unissa
3. Shaikh Nabila Fatima



Our project, *Bright Tasks*, is a smart and student-friendly to-do list application designed to make academic life more organized and stress-free. Built with simplicity and efficiency in mind, the system helps students keep track of their assignments, exams, and daily responsibilities in one place. By focusing on task importance and urgency, it guides students toward better time management and academic planning.

The platform allows users to seamlessly add new tasks, edit or update existing ones, delete completed items, and mark tasks as finished. Each task is assigned a priority score, helping students visually identify what needs immediate attention. The app also includes search and sorting features, making it easy to filter tasks and stay focused. The clean and intuitive interface ensures a smooth user experience for students of all levels.

Overall, *Bright Tasks* aims to help students avoid missed deadlines, reduce academic stress, and improve productivity through structured task management. By providing a clear overview of workload and priorities, the application encourages students to plan ahead, stay disciplined, and achieve better results in their studies.

Bright Tasks

To-Do List

Physics P:20 (I:4 U:5) Completed

Assignment

Created: 12/4/2025, 8:37:13 AM

Maths P:15 (I:5 U:3)

Sem exam

Created: 12/4/2025, 8:36:16 AM

Team-04: Third Semester B.E Students.

- 1.Chaitanya N,
- 2.Likitha M,
- 3.Sanjana M
4. Srushti



Our project, *SymptoSense*, is an AI-powered symptom checker designed to help users better understand their health concerns in a simple and informative way. By allowing users to enter symptoms such as fever, cough, pain, rashes, or fatigue, the system analyzes these inputs and compares them with general medical patterns. The goal is not to diagnose, but to give users a clearer idea of what their condition *might* relate to, offering initial awareness and guidance.

SymptoSense provides safe, supportive information about the possible causes of symptoms, their potential seriousness, and the steps users may consider next—such as seeking medical attention or monitoring their condition. The system may also include features like a voice assistant for hands-free interaction and GPS integration to help users locate nearby hospitals or clinics quickly. Its simple and intuitive design ensures accessibility for users of all ages.




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Overall, *SymptoSense* functions as a friendly digital health companion that empowers users to make informed decisions about their well-being. By providing symptom insights and directing users toward appropriate next steps, it enhances awareness, encourages timely action, and supports better personal health management.

 **SymptoSense**

Select your symptoms:

- ☐ Fever
- ☐ Cold
- ☐ Cough
- ☐ Headache
- ☐ Stomach Pain
- ☐ Chest Pain
- ☐ Vomiting
- ☐ Shortness of Breath
- ☒ Dizziness

[Check Result](#)

Dizziness Detected 🤯

Medicine: ORS / Water
Home Remedies:

- Drink water
- Lie down
- Check blood pressure

 **SymptoSense**

Select your symptoms:

- ☐ Fever
- ☐ Cold
- ☐ Cough
- ☐ Headache
- ☐ Stomach Pain
- ☒ Chest Pain
- ☐ Vomiting
- ☐ Shortness of Breath
- ☐ Dizziness

[Check Result](#)

⚠️ Chest Pain Detected


Warning: This can be serious
Action:

- Call emergency services
- Do not ignore

[📍 Nearest Doctors](#)

[Home](#) [Emergency & About](#) [Health Tips](#)

[Home](#) [Emergency & About](#) [Health Tips](#)

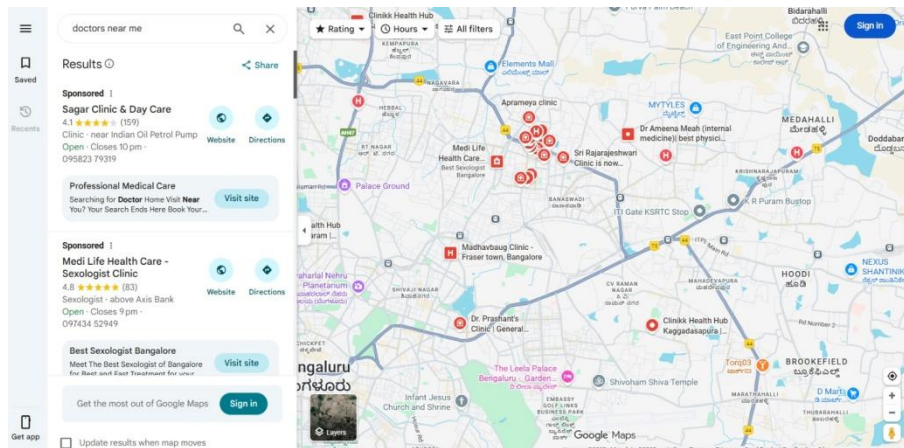
 **Emergency Help**

Important Numbers (India)

Ambulance: 108
Emergency: 112
Women Helpline: 181

About This Project

This website helps users to check possible health issues based on symptoms and provides guidance for early action.



Team-05: Third Semester B.E Students.

1.Dimple

2.Afsana Banu B

3.Rashmi Aravi

4.Suhana



Our project, the *Smart Dustbin*, effectively showcases how basic automation and Arduino technology can enhance cleanliness and hygiene in everyday life. By integrating an ultrasonic sensor with a servo motor, the system detects when a person approaches and automatically opens the lid, providing a completely hands-free waste-disposal experience. This simple interaction makes waste management more convenient and user-friendly.

The automatic opening mechanism not only improves comfort but also significantly reduces physical contact, helping prevent the spread of germs and promoting better hygiene. The design is energy-efficient, low-cost, and easy to set up, making it suitable



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for use in homes, schools, offices, and public spaces. Its reliability and simplicity ensure that anyone can benefit from the technology without complex maintenance.

Overall, the Smart Dustbin demonstrates how small, affordable innovations can lead to smarter and cleaner living environments. By using basic Arduino components, the project encourages proper waste disposal and contributes to healthier surroundings, proving that even simple automation can create meaningful improvements in everyday life.



Team-06: Third Semester B.E Students.

- 1.Zaina Shariff
- 2.Zoya Fathima
- 3.Pathan Sara Khan
4. Tehreem Tarannum





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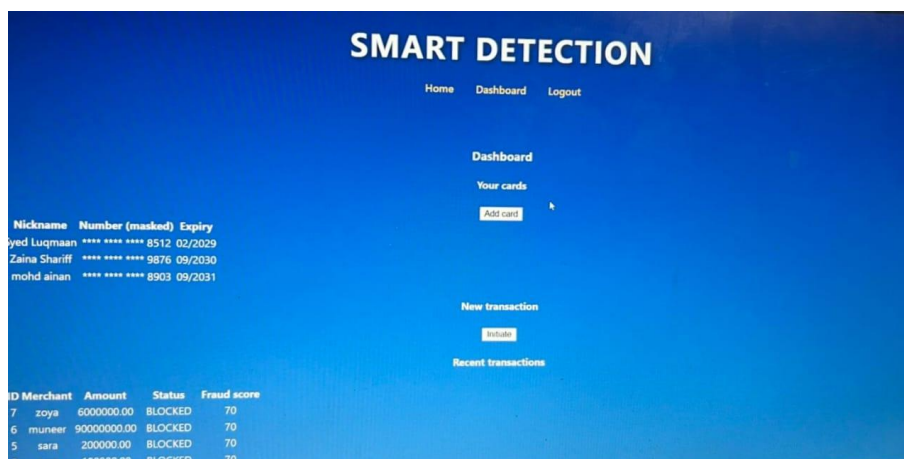
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Our project, *Smart Detection in Financial Transactions*, focuses on enhancing the security of credit card usage through intelligent monitoring and automated response. The system is designed to analyze every transaction and determine whether it is legitimate or potentially fraudulent. By identifying unusual patterns or suspicious activity in real time, it helps protect users from unauthorized financial operations.

A major enhancement in our system is the automatic security action taken when a doubtful transaction occurs. If someone attempts to use the credit card without authorization, the system immediately generates a One-Time Password (OTP) and sends it to the card owner while temporarily blocking the card. This ensures that no further transactions can take place unless verified by the legitimate user, providing an extra layer of safety.

Overall, the project strengthens financial security by combining fraud detection with automated prevention mechanisms. By instantly identifying threats, generating OTPs, and blocking the card proactively, the system greatly reduces the risk of financial loss and gives users confidence that their credit card activities are secure and continuously monitored.





GHOUSIA COLLEGE OF ENGINEERING

(A constituent college of Ghousia Industrial and Engineering Trust)

Affiliated to V.T.U, Belagavi, Recognized by Government of Karnataka and AICTE, New Delhi Accredited by National Board of Accreditation, New Delhi

Department of Computer Science and Engineering, Ramanagara - 562159

presents

HACKATRONICS 2.0



**TURNING ERRORS INTO
EXCELLENCE**

ABOUT GHOUSIA COLLEGE OF ENGINEERING

Ghousia College of Engineering was started in the year 1980. The College is affiliated to Visvesvaraya Technological University, Belagavi and recognized by AICTE, New Delhi and Government of Karnataka. All its departments are accredited by National Board of Accreditation (NBA) for the third term. It is the No.1 Minority College in the State of Karnataka. The College is situated on an expanse of 35 acres of land, about 45 KMs from Bengaluru on the Bengaluru- Mysore National Highway 275. The library is housed in a separate building with a separate Issue, Reference and General Reading Room Sections with a sufficient collection of books and subscribed to the e-Journals through VTU Consortia. Hostel facility for about 600 students is provided in the campus with separate Hostel for Girls. The College has Excellent Sports facilities for students including gymnasium.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Our vision is to establish a globally recognized academic center of excellence in Computer Science & Engineering, focused on teaching, learning, research, and innovation. We aim to provide high-quality education grounded in fundamental principles, while continuously updating curriculum and teaching methods to enhance the educational experience. Through active research and collaborations with leading institutions and industries. Additionally, we are committed to fostering innovation and entrepreneurship, contributing positively to society.

WHY PARTICIPATE IN HACKATRONICS 2.0?

Unleash your creativity, tackle real-world challenges, and showcase your technical skills. Network with peers, learn from experts, and compete for exciting prizes. Join Hackatronics 2.0 at Ghousia College to innovate, collaborate, and elevate your career!

Code to Transform, Innovate to Inspire

OVERVIEW OF Themes:

SCAN



WEB DEVELOPMENT

Build modern, responsive websites or progressive web apps (PWAs) that solve specific problems or enhance user experiences.

SUSTAINABILITY AND GREEN TECH

Solutions that promote energy efficiency or environmental conservation.

HEALTHCARE INNOVATION

Applications or tools to improve medical accessibility, diagnosis, or patient care.

AI/ML AND AUTOMATION

Intelligent systems for automation, prediction, or data analysis.

EDTECH SOLUTIONS

Platforms or tools to enhance learning experiences.

SMART CITIES AND IOT

IOT solutions for urban infrastructure, transportation, or energy management.

CYBERSECURITY

Building innovative solutions to protect digital systems, data, and users from emerging cyber threats.

>Registration Fee<

Rs 500/- per team
2-4 members



₹ 10000/-



₹ 7000/-



₹ 3000/-

IMPORTANT DATES

MARK
YOUR



21-11-2025

REGISTRATION OPENS

30-11-2025

PROBLEM STATEMENTS &
PPT SUBMISSION OPENS

2-12-2025

REGISTRATION CLOSES

2-12-2025

PPT SUBMISSION DEADLINE

2-12-2025

ANNOUNCEMENT OF
SHORTLISTED TEAMS

2-12-2025

PAYMENT PERIOD

3-12-2025

HACKATHON EVENT

HACKATRONICS TIMELINE

3rd - 4th DEC



Panel Discussions

Engage with industry leaders and explore the latest trends and future possibilities in tech, healthcare, and AI.

Networking Sessions

Connect with mentors, industry professionals, and fellow tech enthusiasts, building a network of like-minded innovators.



Entertaining games and challenges

A dedicated zone of interactive games and mini-challenges designed to refresh participants and boost creativity.

PRESIDENT:

Dr. NS Kumar
Principal, GCE

VICE

PRESIDENT:

Dr. Aejaz Ahmed K.R
Administrative Officer, GCE

CONVENER:

Dr. Dilshad Begum
HOD, Dept of CSE

STUDENT COORDINATORS:

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With Regards All Faculties and Students of Computer Science and Engineering Department