PRAGYA PRAHAR

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

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Govenment Engineering College Khagaria

MONTHLY NEWSLETTER

An insight into the Departmenet of Computer Science And Engineering , GEC Khagaria

CSE NEWSLETTER

> ❝ Live as if you were to die tomorrow. Learn as if you were to live forever.
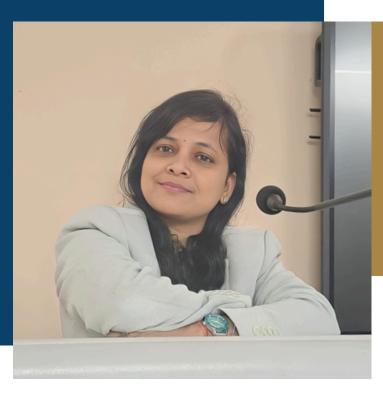>
> ——Mahatma Gandhi

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Greetings from the HOD of the CSE Department

CSE(IOT)

Dear Students, Faculty, and Staff,
Welcome to the Department of Computer Science and Engineering (CSE) at Government Engineering College, Khagaria!

It is my honor to serve as the Head of the Department for CSE (IoT) in such a vibrant and forward-thinking community of students, faculty, and staff. Our department is dedicated to providing an exceptional education that equip students with the skills, knowledge, and mindset necessary to excel in the ever evolving field of computer science and engineering.

"The best way to predict the future is to invent it." – Alan Kay

As technology continues to transform our world, it is vital for aspiring professionals to remain at the forefront of innovation. To this end, our curriculum has been carefully designed to build a strong foundation in core areas such as programming, algorithms, data structures, software engineering, and emerging technologies like the Internet of Things (IoT).

Beyond academics, we foster a culture of research and innovation. Our state-of-the-art laboratories provide an excellent platform for students and faculty to collaborate on groundbreaking projects, often in partnership with industry leaders. These efforts have led to the publication of research in prestigious conferences and journals, underscoring our commitment to advancing knowledge and technology.

"Innovation distinguishes between a leader and a follower." – Steve Jobs

I encourage you to explore our website to learn more about the Department of Computer Science and Engineering at Government Engineering College, Khagaria. Whether you are a prospective student, a current student, or an industry partner, we welcome your interest and look forward to your active participation in our vibrant community.

Thank you for joining us on this exciting journey of discovery, innovation, and growth. Together, let us push the boundaries of what is possible in the field of computer science and engineering.

Warm regards,
Prof. PRIYANKA SINHA
Head of Department, CSE (IoT)
Government Engineering College, Khagaria

Greetings from the HOD of the CSE Department

CSE(AI & ML)

Dear Students, Faculty, and Staff,

Welcome to the inaugural edition of our Department Newsletter. As the Head of the Department of Computer Science and Engineering (AI & ML), I am excited to share the latest updates, achievements, and milestones from our vibrant community.

Our department continues to be a hub of innovation and academic excellence. We are proud of the strides we are making in shaping the future of technology. This newsletter highlights our collective efforts and celebrates the achievements that make our department stand out.

I am deeply grateful for the dedication and passion each of you brings to our department. Together, we create an environment where learning and growth thrive, and I look forward to all that we will continue to accomplish together.

Thank you for your continued support, and here's to another year of success and innovation!
Warm regards,
Prof. ABHISHEK KUMAR
Head of Department
Computer Science and Engineering (AI &ML)
Govt. Engineering College, Khagaria

About
The Department
CSE(IOT)

The Computer Science Engineering (IoT) branch at Government Engineering College, Khagaria is designed to equip students with the skills necessary to excel in the rapidly evolving field of Internet of Things technology. Established in 2019, this program has seen varying student intakes over the years: 58 students in the 2022 batch, 32 in the 2023 batch, and 56 for the 2024 batch. The curriculum focuses on integrating IoT systems, data analytics, and machine learning, providing a comprehensive education that prepares graduates for careers in technology and engineering sectors. With a total intake capacity of 60 students per year, the program aims to foster innovation and practical skills among its participants, ensuring they are well-prepared for the demands of the industry.

Vision

To be a global leader in technology-driven education and research, fostering innovation, entrepreneurship, and societal development

Mission

- To offer outstanding education in engineering, science and technology, equipping students with the knowledge, skills, and values to excel in their chosen fields and make a positive impact on society.
- To conduct cutting-edge research, pushing the boundaries of knowledge in various engineering and scientific disciplines, and contributing to technological advancements.
- To build a diverse and inclusive holistic learning environment that encourages creativity, ingenuity, and leadership skills among students, faculty, and staff.
- To engage in alliances and collaborations with industry, government, and academia to address real-world challenges and promote innovation and economic growth.
- To uphold the highest standards of ethics, integrity, and professionalism, instilling these values in our students and faculty.

About
The Department
CSE(AI & ML)

The Computer Science and Engineering (CSE) branch with a specialization in Artificial Intelligence and Machine Learning (AI-ML) at Government Engineering College, Khagaria, commenced its academic offerings in 2023. This program is designed to equip students with essential skills in AI and ML, focusing on developing intelligent systems that can perform tasks requiring human-like cognitive functions. The initial intake for the 2023 batch was set at 43 students, while the subsequent 2024 batch has increased to 60 students. The curriculum emphasizes practical applications and theoretical foundations, preparing graduates for careers in this rapidly evolving field. With a commitment to innovation and technology, the CSE (AI-ML) branch aims to foster a new generation of engineers adept in advanced computing techniques

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- To uphold the highest standards of ethics, integrity, and professionalism, instilling these values in our students and faculty.

Drone Bootcamp

Date: 13th May 2024 to 18th May 2024
Number of Participants: 45
Duration: 1 week

Drone Bootcamp Event Summary

The Drone Bootcamp at Government Engineering College, Khagaria, offered an immersive learning experience for students eager to explore drone technology and its applications. The program covered topics ranging from drone assembly, navigation, safety protocols, and real-world applications. Students participated in practical sessions and demonstrations, gaining hands-on experience in flying and maintaining drones.
Tutors:

- External Expert: Hariharan Krishnan and Kunal Kumar
- Supporting College Faculty: Ravi Kumar (Asst. Prof. Gec khagaria)

Python Bootcamp

Python Bootcamp Event Summary

The 6-Day Python Bootcamp is a comprehensive and immersive learning experience designed to equip students with the fundamentals of Python programming. This intensive program is tailored to meet the needs of beginners from all branches, including Civil, Mechanical, Electrical, and Computer Science EngineeringThrough hands-on training and expert instruction, students will gain a solid understanding of Python programming concepts, including data types, control structures, functions, and objectoriented programming. By the end of the bootcamp, students will be able to apply their knowledge to real-world problems and projects, and will have a portfolio of work to showcase their skills.
Tutors:
- External Expert: Dr.Puneet Gupta(Asst. Prof.IIT Indore) and Saurabh Srivastava(Asst. Prof IIT (ISM) Dhanbad
- Supporting College Faculty: Nityanand Kumar (Asst. Prof. Gec Khagaria)

Date: 09th Sep 2024 to 14th Sep 2024
Number of Participants: 155
Duration: 1 Week

Student Achievement

Hybrid - G

The idea is to provide internet access through a system set up on the drone, enabling wireless connectivity.

Python Bootcamp

Smart India internal Hackathon

DHANYOSMI

The idea combines drones and blockchain to improve farming efficiency and transparency. Drones would monitor crops in real-time, detecting issues like pests or nutrient deficiencies, thus enhancing yields. Data would be securely stored on the blockchain, ensuring accuracy and preventing tampering. This would enable direct sales between farmers and consumers, cutting out middlemen for fair prices. Blockchain would also speed up government support through smart contracts and reduce corruption by tracking funds, creating a transparent, efficient farming process.

MAVERICKS

A dedicated SQL Server instance will be created for each user to maintain an index of their local files, including metadata like file name, type, size, and hash value. Similarly, another instance will store metadata for their cloud/local data storage. A browser extension will intercept download links, extract metadata, and check for duplicates on both servers. Before and after download, the file will undergo duplication checks and hash verification. If a duplicate is found, the user will be alerted with options to manage the files.

A good teacher is like a candle—it consumes itself to light the way for others." – Mustafa Kemal Atatürk

The best teachers teach from the heart, not from the book

Happy Teachers Day

Behind every confident student is a patient and inspiring teacher. We're grateful for your guidance.

Our teachers are the architects of our future. Thank you for believing in us even when we doubted ourselves." – A First Year Student

Student-Faculty Interaction

Effective student-faculty interaction is the key to unlocking potential, fostering innovation, and guiding students toward excellence. Together, we shape bright futures.

I strongly believe student-faculty interaction drives innovation, nurtures talent, builds knowledge, and shapes future-ready tech leaders effectively.

Meaningful student-faculty interaction builds a foundation for growth, knowledge sharing, and mutual success. Let's work together to inspire learning and achieve academic excellence.

With rapid technological advancements, students must develop adaptability and make continuous upskilling in emerging fields like AI and blockchain a habit to stay competitive in the IT industry.

Best wishes to all CSE students! Harness your creativity, embrace challenges, and master innovation. Your passion and skills will drive technological advancements and shape a smarter, more connected world. Keep thriving!

Student-faculty interactions foster collaboration, discuss academic progress, identify improvements, and build a supportive environment inspiring holistic student growth.

The goal of faculty-student interaction is to create a positive learning environment that helps students succeed academically and socially