



GOVERNMENT ENGINEERING  
COLLEGE LAKHISARAI

# 1

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- ACADEMIC ACTIVITIES
- CULTURAL ACTIVITIES
- SPORTS ACTIVITIES



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- ELECTRICAL ENGINEERING
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- SCIENCE AND HUMANITIES

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ISSUE  
JAN-APRIL '25  
NEWSLETTER





## FROM THE PRINCIPAL 'S DESK

It is my pleasure to introduce one of the best B.Tech institutes of the State. It was inaugurated by Sri Nitish Kumar in 2019. The institute has a lush green campus of over approx. 10 acres within the heart of the district. The campus offers a safely and live hood green environment. The institute is well connected with road, train and airport. The institute has separate Badminton court, Volleyball court, Playground. It has separate Hostels for boys & girls, Computer Lab (150 No.), Smart Classrooms, well-equipped Laboratories, Centre of Excellence (COE), well maintained Library with Reading Room, Drawing Halls, Gym, Cafeteria, Wi-Fi Campus. Every year institute organised an inter & intra level tournaments called as KHELOTSAV. The Primary Mission of our institute is to provide resources and state of art program that will help professional development of our students. This institute offers Diploma in five Discipline i.e. Civil Engineering (CE), Electrical Engineering (EE), Mechanical Engineering (ME), Computer Science Engineering(CSE). The aim of this institute is to maximize human potential so that intellectually capable and imaginatively gifted leaders can emerge in a variety of professions by providing qualitative technical education and exploring students' latent talent. The Institute is going to sign MoU with various centrally funded technical institutes and PSU.



बिहार सरकार

With Regards.

Prof.(Dr.) Bimlesh Kumar

Principal

Government Engineering College,  
Lakhisarai

Department of Science, Technology &  
Technical Education (DSTTE), Government  
of Bihar

Bihar-811311 (INDIA)

# EDITORIAL

"Connecting, Informing, and Inspiring"

Welcome to our college newsletter, your source for news, updates, and stories from our vibrant campus community!

As we navigate the ups and downs of academic life, it's essential to stay connected and informed. This newsletter aims to keep you up-to-date on college events, achievements, and opportunities that matter to you.

In each issue, you'll find:

- Campus news and announcements
- Student and faculty spotlights
- Upcoming events and deadlines
- Resources and support services

Our goal is to inspire, engage, and empower you to make the most of your college experience. Whether you're a student, faculty member, or staff, we invite you to share your ideas, feedback, and stories with us.

Let's stay connected and make this academic year a success!

Best regards,



**Ms. Nimmi Sahu**  
Asst Prof. (EE)



**Mrs. Smriti Jaiswal**  
Asst Prof. (EE)



**Ms. Rina Kumari**  
Asst Prof. (CE)



**Mr. Navdeep Raj**  
Asst Prof. (CE)



**Mr. Krishna Raj**  
Asst Prof. (ME)



**Mr. Satyendra Ram**  
Asst Prof. (ME)

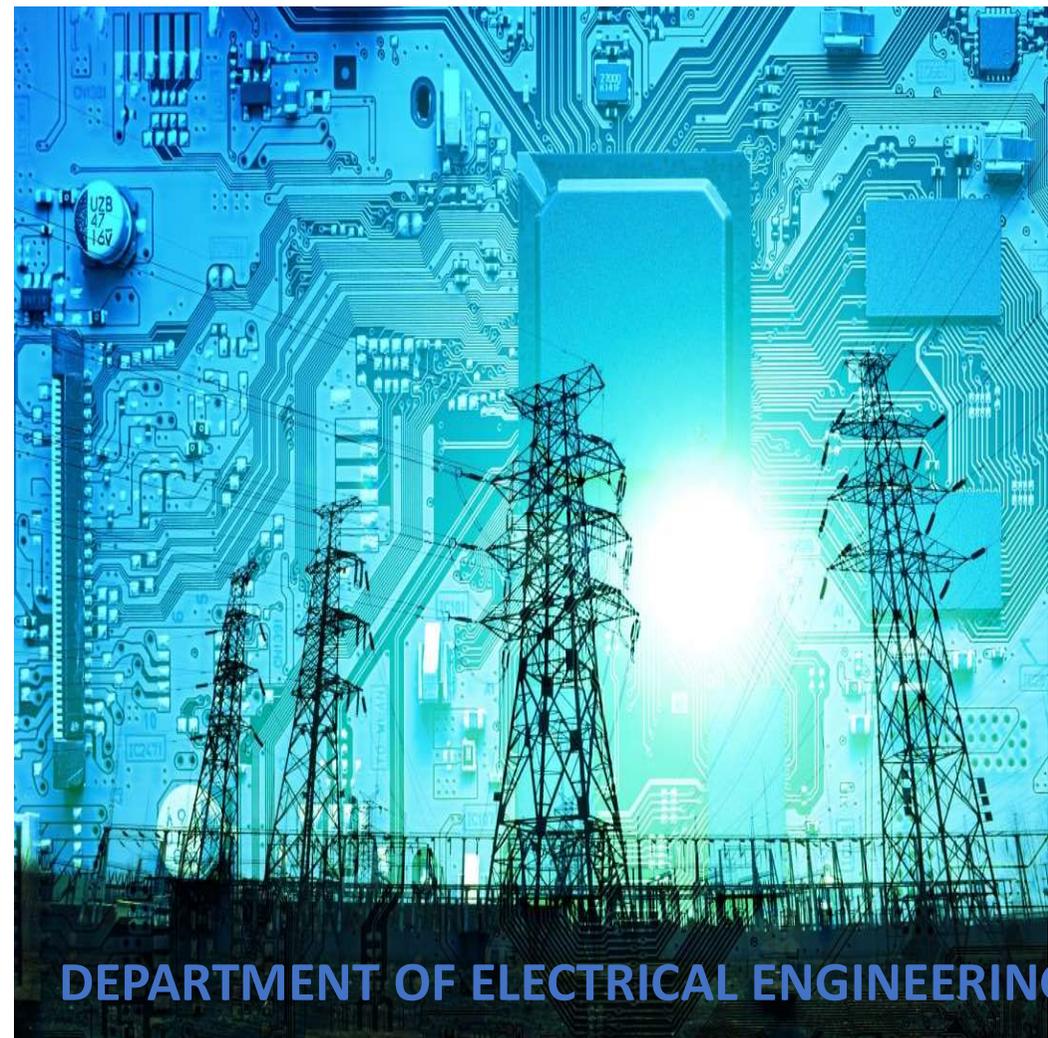


**Mr. Jitendra Kumar**  
Asst Prof. (CSE)



**Ms. Twinkle Kumari**  
Asst Prof. (CSE)

**Editorial Team, College Newsletter**

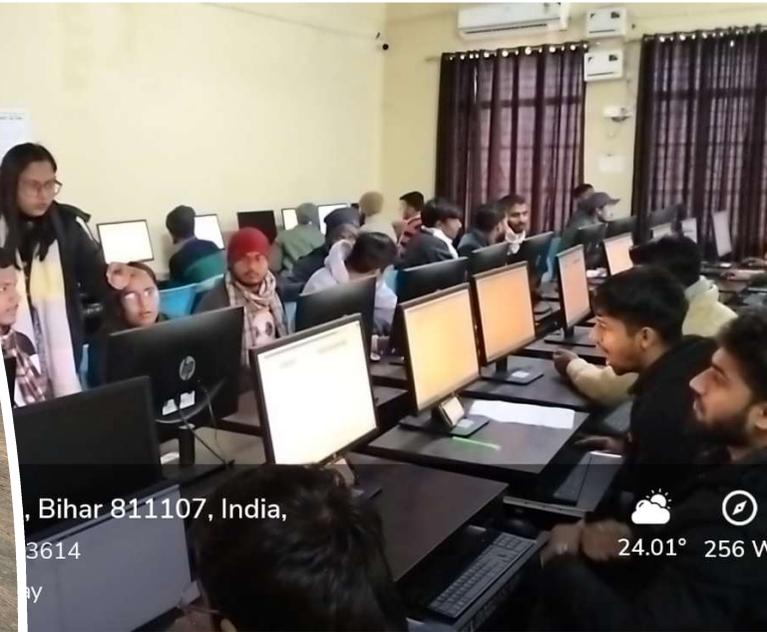


## Departmental Highlights

- All of the Electrical Engineering faculties completed Induction Training: Teaching pedagogy at NITTTR Bhopal.
- Final year student Priyanshu Kumar qualified GATE 2025 with AIR (All India rank) 1424.
- Faculties Ajnish Kumar Sharma and Vikash Kumar won in Badminton and Carrom in Annual sports event 'Umang'.
- Prof. Smriti Jaiswal Published a research article titled "Frequency Control of Shipboard Microgrid Using a Novel Artificial Rabbits Optimization Tuned Cascaded PI-TID Controller" in the International Journal of Smart Grid.

# Academic Activities

- Two MATLAB Workshops were organised by Electrical Engineering Department to make students aware of control system toolbox and enable them to execute simple projects using MATLAB software.
- Students participated in Industrial Visit to Command and control centre at Smart City Bhagalpur.
- Students participated in Industrial visit to Power Grid Substation at Lakhisarai.



## Academic Activities

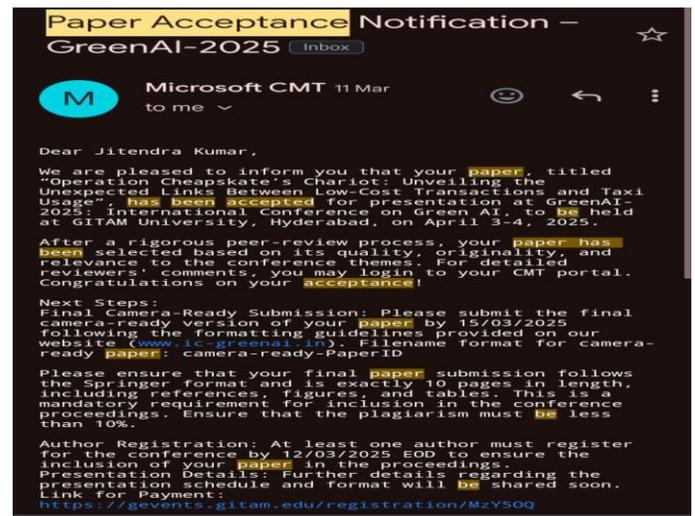
- One day PROTEUS Workshops was organised by Electrical Engineering Department to make students aware of PLC system toolbox.
- Students participated in one day workshop on “career opportunities in Electrical Engineering” by Prof. Avinash Kumar (IIT Roorkee).
- Students participated in Industrial visit to NIPER Hajipur in January 2025.



# COMPUTER SCIENCE & ENGINEERING

## DEPARTMENTAL HIGHLIGHTS

- Department has transformed the website of GEC lakhisarai.
- Department are using several coding platform (Hackerrank, Hackerearth, Codechef, GeekforGeeks, etc.) to enhance the student coding skills in 2025.
- Computer labs are configured to adopt the research development and concurrent technology.
- Department has organized two workshops in the area of “Trends in Machine learning and AI” and “Cyber Security”



# COMPUTER SCIENCE LABS





**One-week Faculty Development Programme on  
"Machine Learning for Multimedia Processing and Forensics"**  
February 28 – March 04, 2025

Ref. No: EICT/NITP/25/24-25/1684



(Supported by Ministry of Electronics and Information Technology (MeitY), Govt. of India)

**Certificate of Participation**

**Sunil Kumar**, Faculty, Government Engineering College Lakhisarai, has participated in the one week Faculty Development Program on **"Machine Learning for Multimedia Processing and Forensics"** jointly organized by Electronics and ICT Academy, NIT Patna and NIT Jamshedpur under the **"Scheme of financial assistance for setting up of Electronics and ICT Academies (Phase- II)"** by the Ministry of Electronics and Information Technology (MeitY), Government of India from 28th February- 04th March 2025.

*Shyam Singh Rajput*

**Dr. Shyam Singh Rajput**  
Coordinator  
National Institute of Technology Patna

*Deepak Rai*

**Dr. Deepak Rai**  
Coordinator  
National Institute of Technology Jamshedpur

*M.P. Singh*

**Prof. M. P. Singh**  
CI, E&ICT Academy & Coordinator  
National Institute of Technology Patna



**Elite**  
**NPTEL ONLINE CERTIFICATION**  
(Funded by the MoE, Govt. of India)

This certificate is awarded to  
**JITENDRA KUMAR**  
for successfully completing the course

**Data Analytics with Python**

with a consolidated score of **76** %

Online Assignments	22.78/25	Proctored Exam	52.86/75
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Total number of candidates certified in this course: **10022**

*Ghosh*  
**Prof. Kaushik Ghosh**  
Professor (Chemistry)  
Coordinator CEC

**Jan-Apr 2025**  
(12 week course)



Skill India  
कौशल भारत - बुद्धि भारत



*Ranjana Pathania*  
**Prof. Ranjana Pathania**  
Professor (BSSE)  
Coordinator (NPTEL)



Indian Institute of Technology Roorkee

1 / 1 40% Fit



- Professor Kanhaiya and Jitendra (CSE Faculty GECL) secured 1<sup>st</sup> position in Badminton championship at the commissioner level in **UMANG 2024(8-11 January 2025)**.
- Dr. Jitendra Kumar (CSE Faculty GECL) secured 1<sup>st</sup> position in 400m running.
- Dr. Jitendra Kumar published two international conferences.
- Department has hires one NATS staff and one Lab assistant in the month of April and May 2025.
- Dr. Jitendra Kumar has completed two NPTEL courses in the area of computer science.
- Mr. Sunil Kumar has completed two FDP in the month of february and march 2025 in the area of computer science.
- Mr. Kanhaiya Kumar has completed two FDP, NITTTR and one CISCO course module in the area of Networking in the year 2025.
- Mr. Rakesh Kumar has completed two FDP, NITTTR training in the month of March and May 2025.

# CIVIL ENGINEERING



## Faculty Highlights

Prof. Rohit Raj & Prof. Manu Kumar Jha join as a guest faculty .

## Departmental Highlights

182 consultancy projects have been completed by the Civil Engineering Department till april 2025.

A visit to Simariya cable stayed bridge, Hathidah organized for 2021-2025 batch.





## Students Highlight

Saurabh Aryan, Kriti Arya, Subhash Kumar Jha, Kshitij Kumar from ( 2021 - 2025 ) qualified GATE 2025.

20 students from 2021-2025 got selected in various companies through campus selection.

## Workshop & Seminar

- One week workshop organized on QGIS from 6<sup>th</sup> January to 12<sup>th</sup> January 2025. Dr. Sachidanand Kumar from ISM Dhanbad led the session.
- Dr. Sachidanand Kumar from ISM Dhanbad led the session as an expert in one week workshop on Auto Cad organized from 7<sup>th</sup> february to 22 february 2025.



# MECHANICAL ENGINEERING NEWSLETTER



GEC, Lakhisarai

MAY 16, 2025

[www.geclakhisarai.com](http://www.geclakhisarai.com)

## ABOUT

Located in the peaceful rural landscape of Bihar and surrounded by green fields, the Department of Mechanical Engineering offers a calm and focused environment for learning. Despite being in a rural area, the department is committed to delivering quality education and practical skills to empower local youth.

We emphasize core mechanical concepts, hands-on training, and community-based problem-solving. Inspired by the simplicity of rural life and driven by modern engineering principles, our goal is to produce technically sound, socially aware engineers who can contribute to both local and global challenges.



## HOD MESSAGE

Mechanical Engineering is the art of applying science to solve real-world problems. At GEC Lakhisarai, we are committed to nurturing curious minds and turning them into capable engineers, deeply connected with their roots and ready to build the future.

## FACULTY HIGHLIGHTS

Faculty members from the Department of Mechanical Engineering have actively participated in various training programmes such as FDPs, Technical Teacher training, workshop, seminar to enhance their academic and technical competencies. These initiatives not only strengthen subject knowledge but also help align the department's academic practices with evolving industry standards and national educational goals.



# LABORATORY



## Workshop

The Mechanical Workshop at GEC Lakhisarai offers practical training in:

- Fitting – Hand tools, cutting, and assembly
- Welding – Arc and gas welding techniques
- Machine Shop – Basic operations on lathe, drilling, and shaping machines
- Carpentry – Wood cutting, joining, and finishing

It builds essential fabrication skills and connects classroom learning with real-world applications.

## Thermal Engineering Lab

The Thermal Engineering Lab at GEC Lakhisarai is designed to give students practical exposure to the core concepts of heat and energy. It is well-equipped to support experiments in IC Engines, Heat and Mass Transfer (HMT), and Refrigeration & Air Conditioning (RAC).

- IC Engine: Students study 2-stroke and 4-stroke engines, perform testing, and analyze emissions using real engine setups.
- HMT: Covers conduction, convection, radiation, and heat exchanger experiments to understand heat transfer.
- RAC: Focuses on refrigeration and air conditioning systems, refrigerants, and efficiency using working models.

This lab connects theory with practical skills, building a strong base in thermal sciences.



## Fluid Mechanics and Fluid machinery Lab

At GEC Lakhisarai, this lab offers hands-on learning of fluid flow, pressure measurement, and hydraulics. Students work with flow meters, pumps, turbines, and other fluid machinery to understand their principles and performance. It connects theory with practical industrial applications.



## UTM Lab

The UTM Lab at GEC Lakhisarai provides practical training in testing the mechanical properties of materials. Students perform tensile, compression, and bending tests to understand material strength, ductility, and elasticity. This lab helps link material theory with real-world engineering applications.

# DEPARTMENTAL EVENTS



## Workshop on Ansys

The Mechanical Engineering Department at GEC Lakhisarai recently organized an ANSYS Workshop to enhance students' skills in computer-aided engineering and simulation. Coordinated by Prof. Krishna Raj and Prof. Mritunjay Kumar, the workshop covered basics of finite element analysis (FEA), structural analysis, and thermal simulations using ANSYS software. Students gained hands-on experience, bridging theory with advanced engineering tools, preparing them for industry challenges.

## Industrial visit

Mechanical Engineering students of GEC Lakhisarai recently visited Hindustan Urvarak & Rasayan Limited (HURL) in Begusarai. The visit provided practical exposure to large-scale industrial processes, plant operations, and mechanical equipment used in fertilizer manufacturing. Students gained valuable insights into real-world engineering applications, safety practices, and industrial workflows, enriching their academic learning with hands-on experience.



## Workshop on Robotics & IoT

Organized by Prof. Mritunjay Kumar, this workshop introduced students to IoT basics and robotics, featuring hands-on sessions on sensors, automation, and smart devices. Participants included students from Mechanical, Civil, Electrical, Computer Science, Data Science, and AI departments.



Monday, 15/05/2025

# DEPARTMENT HIGHLIGHTS

## WORKSHOP ON SOLIDWORKS



The Department of Mechanical Engineering at GEC Lakhisarai organized a SolidWorks Workshop coordinated by Prof. Chandan Kumar and Prof. Priyesh Kumar. The workshop focused on 3D modeling, part design, and assembly using SolidWorks. Students gained hands-on experience in CAD tools essential for design and manufacturing industries.



### Upcoming events

- Technical seminar series on emerging technologies
- Mini project exhibition by mechanical students
- Industrial visit to NTPC, BHEL, or Rail Coach Factory (proposed)
- Software training workshop on AutoCAD, SolidWorks, and ANSYS
- Hands-on workshop on electric vehicle (EV) technology (proposed)
- Interdepartmental technical quiz and CAD competition



SPORTS

# NEWSLETTER



Written By : Prof. Chandan Kumar

## Inauguration of Table Tennis & Pool Table Facilities

We are delighted to announce the inauguration of two exciting indoor sports facilities - Table Tennis and Pool - at our campus. The launch event was graced by respected Principal Dr. Bimlesh Kumar, faculties members and enthusiastic students who took the first shots and swings to officially open the space.

These additions aim to promote physical wellness, stress relief, and healthy competition among the campus community.

## Faculty members shine in sports events

Our faculty didn't just cheer from the sidelines—they led from the front with an impressive display of skills and sportsmanship:

### Winners in:

- **Badminton** - Fast reflexes and strong coordination.
- **Table Tennis** - Strategic gameplay and quick serves.
- **Carrom** - Focus, precision, and calm execution.

These victories highlight the importance of staying active and engaged, serving as an inspiration to all students



Written By: Prof. Chandan Kumar

## Commendable student performances at commissionerary level matches

Our students showcased their brilliance beyond academics by participating in various events and competitions. We are proud to share their accomplishments:

### Winners:

- **Extempore** - Displayed quick thinking and eloquence.
- **Quiz Competition** - Proved sharp intellect and teamwork

### Runners-up:

- **Badminton** - Fierce competition and great performance.
- **Race** - Speed and stamina on full display.
- **Essay Writing** - Expressed powerful ideas with clarity and impact



**Winners**



**Runners up**

## Badminton Camp 2025

A badminton Training Camp was successfully conducted on campus, drawing participation from beginners to advanced players.

Led by experience coach. the camp focused on:

- Improving footwork and techniques
- Game strategies and endurance building
- Friendly practice matches and drills.

The camp provided an excellent platform for students and faculty to learn, improve, and enjoy the game.



# PAHAL

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Free of cost Classes are being conducted in college premises for nearby school students to prepare them for various competitive examination.





# College Events

College Fest- Aagaz 2.0

Parent-Teacher Meet

Fresher's Party

Republic day celebration

One day Workshop on Career Advice by Shishir Persai

Bihar Diwas commemoration





