

## Five-Days Hands-on Workshop

on

## MATLAB Applications in Engineering

26<sup>th</sup> to 30<sup>th</sup> December 2023



### Coordinators

**Prof. Amit Kumar Singh**

**Prof. Bijay Kumar Singh**

**Prof. Chandan Kumar**

**Prof. Ram Kumar**

**Prof. Abhishek Kumar**



### Organized by

**Department of Electrical Engineering**

**&**

**Department of Civil Engineering**

**Government Engineering College**

**Khagaria, Bihar – 848203**

## About the Institute

GEC Khagaria has been established in 2019 under the Department of Science, Technology and Technical Education with Electrical Engineering -60, Civil Engineering-120, Mechanical Engineering-60, and Computer Science Engineering-120 seats. GEC Khagaria is an AICTE-approved institution affiliated with Bihar Engineering University, Patna.

## About the Department

The **Electrical Engineering** Department is a prominent department of GEC Khagaria, known for its excellence. Boasting state-of-the-art laboratories and a faculty composed of highly qualified experts, it is the pinnacle of electrical engineering. At present, the department exclusively offers four-year undergraduate programs, nurturing the talents of aspiring engineers.

**Civil Engineering** is the branch with lot of diversity right from structural to transportation engineering, environmental to hydrology to hydraulics engineering, geology to geo-technology to earthquake engineering. Being one of the primary Engineering Departments of the Institute, the Department of Civil Engineering offers B. Tech. degree programs. The Department has been imparting quality education at the undergraduate level. The faculty members have been active in teaching, research as well as academic activities.

## Organizing Committee

### Patron

**Dr. Mani Bhushan**

Principal, GEC Khagaria

### Convener

**Dr. Nayan Kumar**

Head, DEE, GEC Khagaria

### Co-convener

**Dr. Md Irfan Ansari**

Head, DCE, GEC Khagaria

### Advisory Committee

Dr. Satya Prakash Kumar (Head, AS&H, GEC Khagaria)

Dr. Amit Kumar Singh (Asst. Prof., AS&H)

Mr. Rajesh Kumar Ranjan (Asst. Prof., AS&H)

Md Sanam Suraj (Asst. Prof., AS&H)

Mr. Alok Ranjan (Head, DME, GEC Khagaria)

Mr. Asif Ahmad (Asst. Prof. DME)

Mr. Love Kumar (Asst. Prof. DME)

Mr. Jyoti Kumar (Asst. Prof. DME)

Mr. Vishwajeet Kumar (Asst. Prof. DME)

Md Adil Ahsan (Asst. Prof. DME)

Mr. Rishav Kumar Gupta (Asst. Prof. DME)

Mr. Prabhakar Kumar (Asst. Prof. DME)

Mr. Abhishek Kumar (Head, CS, GEC Khagaria)

Mr. Aditya Kumar (Asst. Prof. DCE)

Mr. Vishal Kumar Chaudhary (Asst. Prof. DCE)

Mr. Sumit Suman (Asst. Prof. DCE)

Mr. Sanjeev Kumar (Asst. Prof. DCE)

### Organising Committee

Prof. Amit Kumar Singh (Asst. Prof. DEE)

Prof. Ram Kumar (Asst. Prof. DEE)

Prof. Aviral Kumar (Asst. Prof. DCE)

## About the Workshop

The Workshop is intended to develop the knowledge of MATLAB used in the field of Engineering (*Electrical Engineering, Civil Engineering, Mechanical Engineering Computer Science Engineering.*). It will make the audience aware of the basic and advanced tools available in MATLAB and their usage in engineering. Distinguished experts from reputed institutes will be considered potential speakers for the workshop which will benefit UG, PG, and Ph.D. students, and faculty to enhance their knowledge and also help the students to solve their project problems.

The primary aim of this workshop is to enhance the computational skills of the participants for solving engineering problems using MATLAB.

The workshop will promote interaction with professionals working in specific research areas in academic institutions. Also, exposure will be provided to the audience on the wide application of MATLAB that may help in carrying out their research work. This program will bring a positive transformation among the faculty members and students toward research work, and enable the participants to develop competence in understanding recent advances in the proposed topic of the workshop.

## Topics to be Covered

- Introduction to MATLAB
- Hands-on sessions
- Modeling and Simulation of engineering problems
- Application of optimization algorithms for solving engineering problems.
- Application of Machine Learning algorithms

## Important Dates

Last date (Online Registration): 24-12-2023

Confirmation by E-mail: 25-12-2023

Workshop Duration: December 26<sup>th</sup> -30<sup>th</sup>, 2023

## Eligibility

This program is open to faculty members, scientists, Ph.D. scholars, PG & UG Students, and industrial persons.

## e-Registration

**Registration Fee: Free**

## How to Apply

Fill out the registration form using the below link or scan the QR code.



<https://forms.gle/fLF5jsUEXmkJKBCZ9>

## Note

- ❖ *The above link will be closed once the limit of participants is reached.*
- ❖ *The applications will be accepted on a first-come-first-get basis.*
- ❖ *Maximum Fifty (50) participants will be accommodated in the workshop.*

## Venue

Government Engineering College Khagaria  
AT-Raun, Block-Alauli, Khagaria, Bihar-  
848203

## e-Certification

E-certificates will be provided to the participants fulfilling the attendance criteria.

## General Information

1. *No TA/DA will be provided to the participants.*
2. *Boarding and lodging facilities will be provided depending on seat availability.*

## Contact Details

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