

Summer Internship-2026

On

"NextGen AI & Optimization: Mastering Smart Systems with MATLAB and Python"

8th June to 7th July 2026

Organized by

Department of Electrical Engineering
Government College of Engineering
Kalahandi, Bhawanipatna



Faculty Coordinators

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GCE, Kalahandi: In brief

Government College of Engineering, Kalahandi (GCEK), established in 2009, is a premier state-government engineering institute located in Bhawanipatna, Odisha. affiliated with Biju Patnaik University of Technology (BPUT), Rourkela, and approved by AICTE, New Delhi, GCEK is committed to excellence in technical education, research, and innovation. The college offers undergraduate (B.Tech) and postgraduate (M.Tech) programs across various engineering disciplines. With dedicated faculty and modern facilities, the Institute prepares students for successful careers and contributes to regional development and local challenges through research and community engagement.

Department of Electrical Engineering

The Department of Electrical Engineering was established in the year 2009. Presently, the Department offers B. Tech program in Electrical Engineering with an intake of 60 students and M. Tech program in Power System Engineering with an intake of 18 students. It also offers Ph.D programme in diversified areas of Electrical Engineering. The department is distinguished by its team of dedicated faculty members, who possess extensive experience across a variety of specializations, including Power Systems, Power Electronics and Drives, Communication Systems, Control Systems, and Embedded and VLSI Design. A significant number of research papers have been published by our faculty members and students in reputed journals across various fields of Electrical Engineering.

About Internship

The Summer Internship 2026 "NextGen AI & Optimization: Mastering Smart Systems with MATLAB and Python" provides a comprehensive learning journey from basic to advanced concepts, with strong applications in both Electrical and Electronics Engineering domains. The program focuses on foundational programming, Artificial Intelligence, and optimization techniques, gradually advancing to real-world implementations. Through hands-on projects, participants will gain practical experience in developing smart solutions such as energy management, EV charging optimization, and visual data analysis, enhancing their technical, analytical, and problem-solving skills across interdisciplinary engineering fields.

Eligibility Criteria

Students currently pursuing a M.Tech/B.Tech/Diploma in Electrical/Electronics Engineering or any other related programmes, having an interest in AI & optimization engineering, research, or project development, are eligible to apply. Selection will be based on a first-come, first-served basis, subject to a maximum of 40 participants. Internship certificates will be awarded upon successful completion of the program, based on active participation and satisfactory performance.

Accommodation

Hostel accommodation may be provided to outstation participants upon request, subject to availability and applicable conditions. Food facilities will also be available at the hostel on a payment basis.

How to Apply

Participants are required to fill the online registration form by clicking on the following link on or before 10th May 2026. The selected students will be notified, and the course registration payment link will be shared through their emails by 15th May 2026.

The Registration Fees: Rs 750/-

Registration Link:

<https://forms.gle/HrfsFg5QyQnh6F3m7>



Important Dates

Last Date for filling form	10.05.2026
Selection List by E-mail	15.05.2026
Duration	08.06.2026 to 07.07.2026

Weekly Lectures

Week 1: 1. Fundamentals of MATLAB simulation and simulink model 2. Optimization algorithms and implementation in MATLAB
Week 2: 1. ANN: Basics to Advance 2. Practical Applications 3. Implementation in MATLAB and Python
Week 3: 1. MATLAB Applications to power system 2. MATLAB Applications to EV charging
Week 4: 1. Image Processing Fundamentals 2. MATLAB/Python Application to Image Processing 3. Validation and Certificates distribution

***Special lectures will be delivered by Industrial Experts.**