

## Resource Person

Assistant Manager  
Medhaavi Center for  
Automotive Research,  
Hoshiarpur, Punjab.

## Targeted Audience

- Faculty members, Research Scholars and UG/PG students from AICTE approved institution.
- Maximum 20 participants will be allowed to register. Selected candidates will be intimated by e-mail.
- Accommodation facility will not be available.



## Important Dates

Start date of registration : 06-03-2024  
Last date of registration : 09-03-2024  
Selection Intimation : 10-03-2024

## Registration Details

**Registration Fees: Rs. 1,000/-**

### Registration Link:

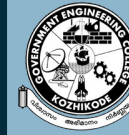
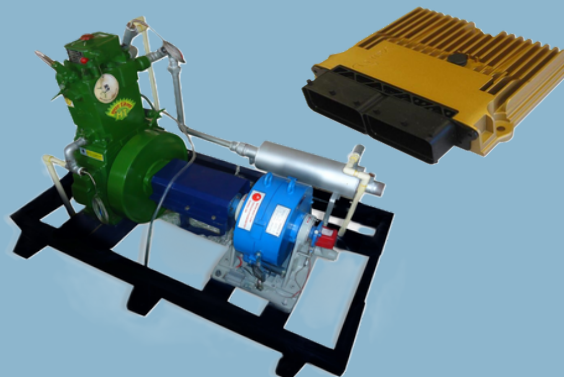
<https://forms.gle/jzdx5L8Y5YvVPeFXA>

### Payment Details:

Account No. : 0833101071037  
Account Name : CCE GEC  
IFSC Code : CNRB0000833  
Name of Bank : Canara Bank, Calicut WestHill

## Address for Communication

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Department of Mechanical Engineering  
Government Engineering College - Kozhikode  
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**GOVERNMENT ENGINEERING  
COLLEGE - KOZHIKODE**

Kannur Road, Westhill  
Calicut-673 005, Kerala, India

## Two Day Workshop

on

**SINGLE CYLINDER AUTOMOTIVE CRDI  
ENGINE TEST SETUP WITH OPEN ECU**

**11-12 March, 2024**



*Organised by*

**DEPARTMENT OF  
MECHANICAL ENGINEERING**



**GOVERNMENT ENGINEERING  
COLLEGE - KOZHIKODE**



## About the College

Government Engineering College, Kozhikode (GECK) is one among the five public engineering institutions established in 1999, by the Directorate of Technical Education under the Govt. of Kerala. The college was started with B.Tech. programs in Applied Electronics and Instrumentation Engineering (AE&IE), Chemical Engineering (CHE) and Mechanical Engineering (ME). Later on, B. Tech. in Civil Engineering, Electronics and Communication Engineering, Computer Science and Design programs were added. In addition to B.Tech. programs, the college offers M.Tech programs in Signal Processing, Energy Systems Analysis and Design and Computer Aided Process Design. Since 2015, it has been one of the 138 colleges affiliated with the APJ Abdul Kalam Technological University.

For more info: <https://www.geckkd.ac.in/>

## Department at a Glance

The Department offers B. Tech. (NBA Accredited) in Mechanical Engineering and M. Tech in Energy System Analysis and Design. The Department includes 18 Permanent and 3 Adhoc faculty members having specialization in various allied fields such as Thermal & Fluids Engineering, Mechanical Engineering Design, Manufacturing Engineering, Industrial Engineering etc. The student intake for UG and PG programs in the department are 60 and 18 respectively. The department also offers opportunities for faculty and students to engage in research activities. The B.Tech. and M.Tech. programs are now affiliated to KTU offering a well planned curriculum. The department functions as an integral unit and conducts several academic, co-curricular and consultancy activities to provide high quality education that moulds professionally competent and socially committed engineers.

## Course Overview

This course provides insight on Common Rail Direct Injection (CRDI) technology, Open ECU (Engine Control Unit), data acquisition, engine testing and data analysis. It also enables to configure and calibrate the Open ECU for the engine. It also provides hands-on experiments with engine parameters and control strategies.

## Course Objectives

1. Introduction to CRDI (Common Rail Direct Injection) engine setup, its components, advantages and working principles.
2. Practical session on the working of a Single Cylinder CRDI Engine.
3. Familiarization of Open ECU Systems, Data Acquisition system and its working.
4. Practical session on testing and analysis of the engine set up using Open ECU and Data Acquisition software.

## Course Outcomes

Participants will leave the course equipped with the ability to configure, calibrate, and operate Open ECU systems for engine control and diagnostics. Also by actively participating in practical sessions, attendees will gain valuable hands-on experience in setting up, testing, and analyzing data from a Single Cylinder CRDi Engine.