

About Karyashala

'KARYASHALA' is an effort to improve research productivity of promising PG and PhD students from universities and colleges through high-end workshops on specific themes. This one-week high-end workshop (Karyashala) will focus on a few key application areas where there is a growing need for better research on electric vehicles, electric drives, bidirectional DC-DC converter topologies, control strategies, battery energy management, charging methodologies, etc. Battery management systems, for instance, have a variety of uses, including electric traction, vehicle-to-grid, and grid-to-vehicle. It necessitates more effectively absorbing penetrations at the source and load sides. A specific experimental setup will be demonstrated. Additionally, this session intends to open up research opportunities.

About College

Rajkiya Engineering College, Sonbhadra was established by the Government of Uttar Pradesh in the year 2015 with one branch, Computer science & engineering with annual intake of Sixty (60). Later on in 2016 two new branches Electrical Engineering and Electronics Engineering with intake of 60 each have been started. The college has been shifted to its own fully residential campus located at Churk, Robertsganj, Sonbhadra in the month of July 2017 and all academic activities from the session 2017-18 is running from its own campus. Fully residential campus consists of two Academic Buildings, Administrative building, Workshop, Hostels (Boys and Girls), Student Activity Center, College Canteen, Grocery Store, round the clock electricity & water supply and other facilities for recreation.

About Department

The department of Electrical Engineering was established in 2016. The department's vision is to produce quality engineers capable of providing sustainable solutions for complex problems and promoting cost effective, environment friendly, indigenous technology for all sections of society and to frame a well balanced curriculum with emphasis on basic theoretical knowledge as well the requirements of the industry.

Chief Patron

Prof. G. S. Tomar

Director, REC Sonbhadra

Patron

Dr. D. K. Tripathi, Dean SW

Dr. Amod Kumar Tiwari, Dean Academic

Chairman

Dr. R. K. Patel, Asst. Prof., Head EED

Coordinator

Dr. T. Chiranjeevi, Asst. Prof., EED

Co-Coordinator

Mr. Umesh Kumar Gupta, Asst. Prof., EED

Course Highlights

- Introduction to Electric Vehicles (EVs)
- EV Simulation Studies
- Current Source Inverter and Voltage Source Inverter Schemes for EVs
- EV Braking
- EV Luminary Testing and Design
- Methods for Battery Modelling
- EV Charging Methods and the Issues They Address
- Training on EV Motor Controller
- Battery Thermal Management System
- Hybrid Energy Storage System
- Real-Time Simulation of Microgrid

How to reach REC Sonbhadra

The Institute is located around 100 kms from the Varanasi airport, 80 kms from Varanasi railway station. The Varanasi city is well connected by Road, Train and Air. There are direct flights and trains from most of the cities to Varanasi. Frequent bus services are available from Varanasi to Robertsganj. The Institute is located around 8 kms from the Robertsganj bus stand. Auto services are available from Robertsganj bus stand.

High-end Workshop (KARYASHALA)

on

Hybrid Electric Vehicles and Battery Management System (HEVBMS-2023)

03rd – 9th July, 2023

Sponsored By



**Science & Engineering Research Board
(SERB)
under**

**'Karyashala' Abhyas Programme
Accelerate Vigyan Scheme**

Organized By



**Department of Electrical Engineering
Rajkiya Engineering College
Sonbhadra, U.P.**

**(An AICTE Approved Govt. Engineering
College, Affiliated to AKTU, Lucknow)**

WHO CAN ATTEND ?

- The students pursuing their Masters degree or Ph.D. degree from a recognized university/institution working in the relevant area of specializations are eligible to apply.
- The relevant areas of specializations include (but are not limited to) Hybrid Electric Vehicles, Battery Management System, Power System, Power Electronics, Control System, Renewable Energy Resources and other related areas of research.

REGISTRATION GUIDELINES

- The maximum number of participants is limited to 25.
- The course will be completely free of cost for the shortlisted candidates
- All the selected participants will be given accommodation in Institute hostel rooms with catering facilities.
- Students selected for this workshop are eligible for travel allowance (TA) reimbursement (3rd AC) for their journey to and from REC Sonbhadra through the shortest route as per SERB and GoI norms.
- The participants will be provided with the necessary stationary and consumables items for the workshop.
- A certificate regarding successful completion of workshop shall be issued to the participants.

HOW TO APPLY

- Applicant should fill the online form through the below link:
<https://forms.gle/c8jKcS6QBvfvXgAi6>
- The applicants should produce a registration cum “No Objection Certificate (NOC)” form from their Supervisor/Head of the Department/Head of the Institute as per the prescribed format.
- The last date to apply: 05th June, 2023
- Notification to selected participant: 10th June, 2023. (Only selected candidate will be informed by email)
- The selected candidates will have to acknowledge and accept the offer through return email by 15th June, 2023, failing which, the candidature will be cancelled.

Contact Us

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Karyashala (High-End Workshop)
on
Hybrid Electric Vehicles and Battery Management System
(HEVBMS-2023)

July 3rd -9th, 2023

Funded By: Science & Engineering Research Board (SERB), Under the Accelerate Vigyan Scheme

Organized By: Department of Electrical Engineering, Rajkiya Engineering College Sonbhadra, U.P.

Registration cum NOC Form

Name of the Participant:

Gender:

Pursuing Degree (P.G. / Ph. D.) & Semester:

Department:

Organization:

Mobile Number:

Email:

I agree to accept the rules and regulations governing the workshop.

Signature of the Participant

Place:

Date:

Mr. /Ms. /Mrs. is a student of our
Institution and is permitted to attend the program.

Signature of the Supervisor/Head of the Department/Head of the Institute and Seal

Place:

Date: