

REGISTRATION

The registration form is enclosed with the Brochure. You can also register through the google form link provided below:

<https://forms.gle/jPrXUpVW5JuVFbfZ8>

REGISTRATION FEES

Participants will have to pay Registration Fee of Rs. 1,000/- +18% Tax through online fees payment at www.nitttrc.ac.in, fee collect portal. The participants will be provided refreshments, working lunch, stationary kit, Books, Pen drive, Boarding and Lodging.

TA will be also be provided to the participants as per Institute norms

On successful completion certificate will be provided by SERB and NITTTR, Chennai

IMPORTANT DATES

Last Date for Submission of Registration:
19.06.2023

Notification of Acceptance through e-mail:
20.06.2023

ADDRESS FOR CORRESPONDENCE

Dr. G.A. Rathy
Professor and Head
Dept. of Electrical, Electronics &
Communication Engineering
National Institute of
Technical Teachers Training & Research
Taramani, Chennai 600 113
Tel: 044-22545416 / Mobile: 9840392946
E-mail: rathysanju@gmail.com
rathy@nitttrc.ac.in

High End Workshop (Karyashala) In E-Mobility and Electric Vehicle Engineering from 21st to 28th June 2023

(For PG and Ph.D. Students, Teachers pursuing Ph.D.
25 seats only on first come first serve basis)



Organized by

Dept. of Electrical, Electronics & Communication Engineering
National Institute of Technical Teachers Training & Research
(Ministry of Education, Government of India)
Taramani, Chennai- 600 113
Website: www.nitttrc.ac.in
Tel: 044-22545416

ABOUT NITTTR

The National Institute of Technical Teachers Training and Research (NITTTR) Chennai was established as an autonomous Institute by the Ministry of Human Resource Development, Government of India in the year 1964 to improve the quality of Technical Education system in India and in the Southern Region in particular. It also fosters research in the inter disciplinary area of Engineering Education and offers consultancy and extension services for the total development of Engineering Colleges, Polytechnic Colleges, Vocational institutions, Industry, Service sector and the Community at large.

DEPT. OF ELECTRICAL, ELECTRONICS & COMMUNICATION ENGINEERING

Our dept. is conducting nearly 30 Faculty Development Programmes for Polytechnic and Engineering College teachers every year training nearly 600 teachers. We revise the curriculum of Polytechnic colleges from time to time. We are also conducting Overseas Teachers Course in Electronics for foreign teachers / delegates. We are organizing many workshops / seminars / conferences in emerging areas in the field of Electrical and Electronics.

ABOUT THE KARYASHALA

The consumption of fossil fuels has increased rapidly in the last 200 years leaving fossil fuel reserves depleted and climate change seriously impacted. The emission of Co2 from Industries thermal power plants and vehicles have resulted in global warming. Its high time, to shift to Electric Vehicles, thereby providing a leaner environment for people to live.

India has unveiled the 'National Electric Mobility Mission Plan (NEMMP) 2020' in 2013 to address the issues of National energy security, vehicular pollution and growth of domestic manufacturing capabilities. Most automobile companies are vowing to switch to electric, a cleaner and sustainable alternative. There is a surge in demand for skilled workforce in electric vehicle technologies. This workshop will serve as an eye-opener in addressing the lacuna and delivers the fundamentals, advanced knowledge and hands-on lab sessions in design, analysis, control, calibration and operating characteristics of Electric Vehicles.

OBJECTIVES:

- Understand Electric Vehicle Components and its Architecture
- Study the Performance and Control of Special Electrical Machines
- Understand Battery Management Systems
- Appreciate the role of Power Electronics in Electric Vehicle
- Understand Advanced Driver Assistance system
- Perform Modelling and Simulation of Electric Vehicles in Matlab/Simulink Environment

PARTICIPANTS:

Research Scholars and Students who are working in the area of Electric vehicle Engineering and other relevant areas in Electrical, Electronics & Communication, Instrumentation and Mechanical disciplines can attend this workshop.

WORKSHOP THEMES

- Electric Vehicle Components and its Architecture
- Performance and Control of Special Electrical Machines
- Battery Management Systems
- Elements of Power Electronics
- EV charging Technology and Infrastructure
- Safety Testing Regulation and Standards
- Vehicle Dynamics of Electrified Vehicles

PRACTICAL AND DEMO SESSIONS

- Range and Power Calculations
- Tear down of Battery Pack Layout with Battery
- Management System Diagnosis and Troubleshooting
- Demo of typical EV Architecture with an E-Bike Kit
- Simulation of EV Systems in Software Environment
- Modelling and Simulation of Electric and Hybrid Vehicles in Matlab/Simulink Environment

OUTPUT:

The participants will be able to integrate concepts related to Electric Vehicle Engineering to pursue their research.

CO-ORDINATOR:

Dr. G.A. Rathy, Professor and Head,
EECE Department

RESOURCE PERSONS:

Resources persons from Industry and Academia

ACTIVITIES DURING THE COURSE

- Lecture
- Design and Simulation of Ev with latest software
- Hands on Practice
- Assignments / Quiz
- Assessment

Accelerate Vigyan Scheme

KARYASHALA

ON

E-Mobility and Electric Vehicle Engineering

from 21st to 28th June 2023

REGISTRATION FORM

1. Name (in BLOCK letters) :

2. Designation, Department and Address of the Institute :

3. Academic Qualification :

4. Specialisation :

5. Communication details :

Telephone :

.....

E-mail :

Mobile :

6. Gender : Male / Female

7. Accommodation requirement: Yes / No

8. Registration fees paid: Yes / No

Date:

Signature

Signature of Competent Authority