

## REGISTRATION FORM

Name (in Block Letter): (Mr./Mrs./Ms./Dr.)

\_\_\_\_\_

Designation: \_\_\_\_\_

Educational Qualification: \_\_\_\_\_

Organization: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

\_\_\_\_\_

Telephone

Office: \_\_\_\_\_

Mobile: \_\_\_\_\_

Email: \_\_\_\_\_

Payment details with date:

\_\_\_\_\_

\_\_\_\_\_

Registration fees: Rs. 6000/-

Signature of Candidate:

Seal and Signature of Sponsoring Authority

## Rules and Regulations

- ❖ **50 Seats** have been allotted for this Training Program and will be filled on first come basis.
- ❖ Interested candidates must fill the google form **on or before November 20, 2019**.  
<https://forms.gle/WA3BcrwdAiuFjFeJ9>
- ❖ Shortlisted candidates will be informed by mail **on or before November 25, 2019**.
- ❖ The registration fees is **Rs. 6000/- Payable** online via following link: <https://www.tounscript.com/e/IHE24> and Offline Mode: Can be paid by Cash to Mr. Daison Davis, Mobile No: 08779580891, **on or before November 30, 2019**.
- ❖ The shortlisted candidates need to submit hard copy of registration form in the prescribed format duly attested by the competent authority to the coordinators at the time of registration **on December 04, 2019**.
- ❖ **The registration fee (Rs. 6000/-)** covers Training materials and Training participation certificate by Ezenith Education.

**Fr. C. Rodrigues Institute of  
Technology,**

Agnel Technical Education Complex,  
Sector 9A, Vashi, Navi Mumbai,  
Maharashtra, Pin: 400703  
Landline: +91-22-27771000, EXT:341  
Mobile: 9869525498, 9137903214



**Agnel Charities'**

**Fr. C. Rodrigues Institute of  
Technology, Vashi, Navi Mumbai  
Mechanical Engineering Department  
In association with  
Ezenith Education**

**10 Days Automotive Technical  
Enhancement Program (HEV, EV)**

**(04<sup>th</sup> Dec – 14<sup>th</sup> Dec, 2019)**

**Chief Patron**

**Dr. S. M. Khot**

Principal

**Convener**

**Dr. Nilaj Deshmukh**

HOD & Dean (Faculty)

**Coordinators**

**Mr. Nilesh Varkute**

Assistant Professor

**Mr. Kamlesh S. Sasane**

Assistant Professor

## Training Overview

The Mechanical Engineering Department of Fr. C. Rodrigues Institute of Technology, Vashi, Navi Mumbai is organizing a 10 Days Automotive Technical Enhancement Program (HEV, EV) from 04<sup>th</sup> – 14<sup>th</sup> December, 2019. Participants will be able to learn about types of Batteries, Motors, BMS and Wireharness and will have practical sessions on Matlab Simulink, Fusion 360, etc. also Case studies on Upcoming electric vehicles would be discussed.

The key features of Training Program are.

- ❖ Lectures on Hybrid and Electric vehicles delivered by Industry Professionals from **TATA Motors, Mahindra and Mahindra, Ather Energy** and Many others.
- ❖ Opportunity to Work on Industry grade projects and get Internationally recognized Certificates.



## Resource Person

### Experts from

*R&D experts from various OEM's like TATA Motors, Mahindra & Mahindra, etc and startups working in Electric vehicle segment*

### Schedule for Hands on training

[04 Dec] Major Components in an Electric Vehicle Powertrain, Global and Indian Energy Scenario and Energy Policy of electric vehicle industry, etc.

[05 Dec] Forces acting on EV, Torque, speed, battery pack calculation, Selection of Battery management system and Motor, etc.

[06 Dec] Analytical & Mathematical Calculations & Modelling of Hybrid Electric Vehicles (HEV), Comparative Study of Analytical vs Actual Working Model of HEV, etc.

[07 Dec] Battery Charging & Discharging Cycles, Use of Batteries in Hybrid Powertrain, Technologies for Thermal Management, etc. Practical Hands-on experience on Battery Pack Development and Modelling of BMS.

[[09 Dec] Electric Motors, Generators & Power Electronics, Reluctance Machines, Actuators, Capacitors, etc. Practical Hands-on Experience on Motors and Controllers using MATLAB and Simulink.

[10 Dec] Selection and Sizing of charging station, Regulatory Requirement & Certifications for Electric Vehicle.

[11 and 12 Dec] Time for Project presentation.

[13 Dec] Components of a Hydrogen Fuel Cell Vehicle (FCV), Safety Issues with FCV, etc.

[14 Dec] Industrial Project Review.

## Institute Profile

Fr. C. Rodrigues Institute of Technology was established in 1994 in the heart of Navi Mumbai, Vashi, as a part of Agnel Technical Education Complex. The main aim of the Institute is to provide quality technical education in addition to inculcating moral values in its students.

The College has been granted Religious minority status. The college prides on being one of few that has **accreditation for three branches vide file no. 28-41-2010-NBA dated 18/12/2018. Our Institute has been ranked between the top 150—200 engineering colleges in India, according to NIRF 2017 (National Institute Ranking Framework). This ranking has been given to only three private colleges in the Mumbai city.**

**Department Vision:** To provide a vibrant academic, research and industrial environment for creating self-sustainable professionals and responsible citizens.

### **Department Mission:**

- ❖ To provide state-of-the-art infrastructure and quality education.
- ❖ To generate opportunities for students to provide industrial exposure.
- ❖ To imbibe team spirit and entrepreneurial skills.