

offers

1-Year Post Graduate Diploma in Electric & Autonomous Vehicles

in collaboration with

The Automotive Research Association of India (ARAI), Pune, India

ABOUT THE COURSE:

PGD-EAV is a course for those who wish to dive into exciting careers in future mobility solutions. The course is designed for fresh graduates and experienced professionals working in industries. K.E. Society's Rajarambapu Institute of Technology (RIT), Rajaramnagar, Islampur and ARAI, Pune are jointly hosting this course.

Faculty from RIT & ARAI and also professionals from various Automotive Industries will prepare the students for upcoming challenges and opportunities in the field of Electric and Autonomous Vehicles. The course includes class room / online lectures, presentations, tutorials, practical and mini-projects. Students will be exposed to current developments in EV / HEV Technology, Connected / Autonomous Vehicle Technology, Charging Infrastructure and Testing & Certification as per AIS standards through case studies and real world projects.

COURSE DETAILS:

Trimester I

- Bridge Course
 - Fundamentals of Automotive Electrical & Electronic Systems (for Mechanical group)
 - Fundamentals of Automotive Mechanical Systems (for Electrical group)
- Vehicle Dynamics and Control
- Power Electronics (includes Motors and Drives for EVs)
- xEV Architecture (incl. Batteries, Fuel Cells & Super Capacitors for EV)
- **Elective-I**
 - Intelligent Transport Systems
 - Battery Management System
- Lab I
- Mini Project-I

Trimester II

- Modelling and Simulation of EHV's
- Intelligent Algorithms (Incl. AI, ML & Control Systems)
- Automotive Embedded System & Communication Protocols
- Autonomous Vehicles
- **Elective-II**
 - Testing & Certifications for EVs
 - Charging Infrastructure
 - EMI/EMC
- Lab II
- Mini Project-II

Trimester III

- Full time Project

Place of Study/Project :-

Trimester-I

- Students will be at RIT, Islampur

Trimester-II

- Students will be at ARAI Academy, Pune

Trimester-III

- Full Time Project @ RIT / ARAI / Industry

Total Number of Seats: 20

ELIGIBILITY CRITERIA:

Engineering Graduate in Mechanical / Electrical / Electronics & Telecommunication / Instrumentation / Automobile and allied branches.

COURSE FEES:

Rs. 1,60,000/- for Full Course

SELECTION CRITERIA:

Written Test / Interview by joint selection committee

Suitable arrangements of Lecture delivery & Laboratory Practical will be made for Working Professionals

Project Opportunities:

Students will get the opportunities to do their final Trimester projects in:

- ARAI
- Research Institutes
- Vehicle Manufacturers
- Component Manufacturers

How to Apply:-

Please Contact the RIT Faculty Coordinator for further details.

Diploma Certificate:-

The final diploma is awarded by Rajarambapu Institute of Technology, Sangli in association with ARAI, Pune