College of Engineering Pune

COEP

Department of Electrical Engineering

Offers

ONE YEAR FULL TIME POST GRADUATE DIPLOMA

IN

AUTOMOTIVE EMBEDDED SYSTEMS

(PGDAES)

(Blended Mode)

Join to learn in the most happening area in the Automotive Industry !!!

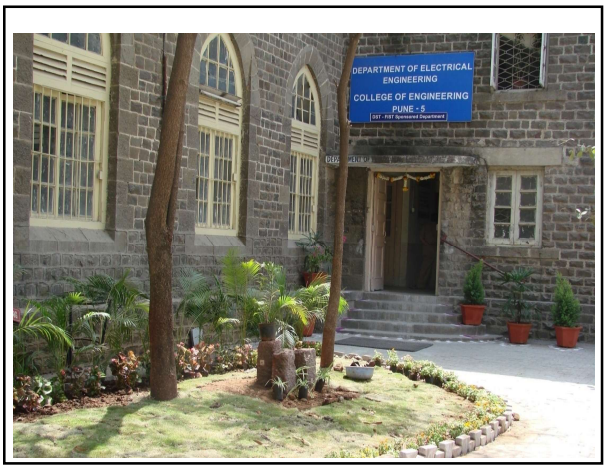
==========

ABOUT COEP:

College of Engineering, Pune (COEP), chartered in 1854, is a nationally respected leader in technical education. The institute is distinguished by its commitment to finding solutions to the significant predicaments of the day through advanced technology. The institute has a rich history and dedication to the pursuit of excellence. COEP offers a unique learning experience across a spectrum of academic and social backgrounds. With a firm footing in truth and humanity, the institute gives an understanding of both technical developments and the ethics that go with it. The curriculum is designed to enhance academic experience through opportunities like internships, study abroad programs and research facilities. The hallmark of COEP education is its strong and widespread alumni network, importunate support of the industry and the camaraderie that the institute shares with several foreign universities. The institute is consistently ranked amongst the top technical colleges in India and its alumni have contributed the lion's share in the development of national infrastructure.

ABOUT ELECTRICAL DEPT:

Department of Electrical Engineering has a legacy of quality education since 1932. It is recognized by its well established laboratories, excellent computational facilities, collaboration with industries and research organizations, devoted learned faculty, and a culture of strengthening knowledge and research.



The Department of Electrical Engineering is running UG program since 1932 and PG programs in "Power Electronics and Power Systems" and "Embedded Control Systems" since 1952. In 2016 department also started the new PG program "Power Electronics and Machine Drives". The department runs a PG Diploma in Electric Mobility with the support of Mechanical Department. All programs run by the department have received NBA accreditation. The department has developed excellent laboratories in the domain of electrical machines, power system simulation, and control systems. The excellent computational facilities and simulation platforms such as Maxwell, PSCAD, Labview, dSPACE, PSIM are very useful for engineering education and research.

Few faculty members are engaged in industrial consultancy with companies like Emerson, L&T, Bosch, HELLA Automotive etc. Special training programs for industry persons are organized by the department. The department hosts Center of Excellence in Smart Renewable Energy Systems and has industry supported Hella Frugal Innovation Laboratory. The department has also established the K. R. Natu School of Electrical Engineering through its alumnus support.

The indigenously developed laboratory setups are attracting the attention of elite institutes including the IITs. Some of these setups are first-of-its-kind in the country.

About PG Diploma in Automotive Embedded Systems:

E-Mobility is an area which is gaining lot of importance as every automotive industry is venturing into it. During the discussion with various industries, we realized that our young engineers would need hands on training and specific relevant courses with in-depth knowledge to make them industry ready in this new domain. With this basic idea in mind, from this year Electrical department is starting a one year Post Graduate Diploma course in 'Automotive Embedded Systems'. This will be a trimester course where the students will have 5 courses (theory and lab with more emphasis on practical's and small projects) in first two semesters followed by internship in a relevant industry in the last semester.

This is the FIRST batch of ONE-YEAR FULL-TIME PG diploma offered by the department. The basic aim to start this course is to create engineers with hands on experience in this emerging area. The four months industry internship will be executed in collaboration with the help of our renowned Industry partners, who are working in this area. This course is designed in such a way to provide an opportunity to the engineers to work with experts in the specific domain area and to give an opportunity to work on live projects to further enhance their knowledge.

www.elprocus.com/wpcontent/uploads/embedded-systems-used-in-automobiles.jpg

Course Structure

Sr. No	Course Title	Course Type	Credits	Duration
Trimester 1				
1	Basics of Electrical and Electronics	Core	4	**15 weeks**
2	Automotive Engineering Practices	Core	3	
3	Microcontrollers	Core	3	
4	Embedded C	Core	4	
5	Model Based Development	Core	4	
			Trimester 1- Credits =18	
Trimester 2				
6	Programming with C++ and Python	Core	5	**15 weeks**
7	Embedded SW Testing and Communication Protocol	Core	4	
8	Future Trends in Automotive	Core	3	
9	Electric Mobility	Core	4	
10	Automotive Testing	Core	4	
			Trimester 2- Credits =20	
Trimester 3				
11	Industry Project	Core	12	**15 weeks**
			Trimester 3- Total Credits =12	
		Course Total Credits	**50**	**45 weeks**

Faculty:

In-house faculty as well as renowned and experienced experts from Industry/ R & D organizations will be involved in the teaching-learning process of the entire program.

Industry Partners:

Information to the Candidates:

Eligibility Criteria:

- B.E/B. Tech. from circuit branches such as Electronics/ Electronics and Telecommunication /Electronics and Communication Engineering/ Computer/ Information Technology/ Electrical/ Instrumentation/Any other circuit allied branches.
- Freshers and Candidates with prior work experience both can apply.
- Those appearing for their Final year degree examination may also apply. On selection, such candidates will have to fill a Notarized undertaking on Rs. 100/- Non-Judicial stamp paper and submit it to PGDAES office at the time of payment of Program Fees.

Course Fees:

- Course fees are mentioned on Institute's website, and it is to be paid ONLINE at the time admission.

Selection Criteria for the admission:

- Candidates shall be admitted as per the selection procedure mentioned on the Institute's website.

Total Number of Seats:

Total Number of seats for the program is **12-18.**

Address for the Communication:

PGDAES Admissions
Department of Electrical Engineering,
College of Engineering Pune-[COEP].
Wellesley Road, Shivajinagar, Pune MAHARASHTRA,
India. - 411005

Cell No/WhatsApp No: +91 9922411402
Telephone: +91-20-2550 7022/7417
Fax: +91-20-25507299
Email Id: pgdaes@coep.ac.in
URL:pgdadmission.coep.org.in/pgadmission/