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University of Parma

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WHY STUDY WITH US?
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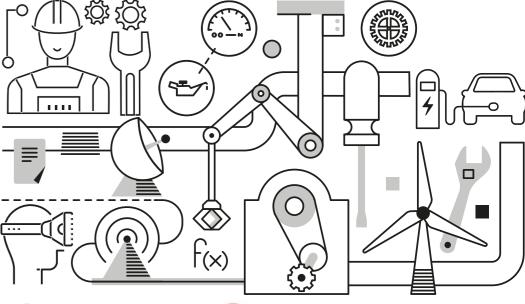
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ELECTRIC VEHICLE ENGINEERING





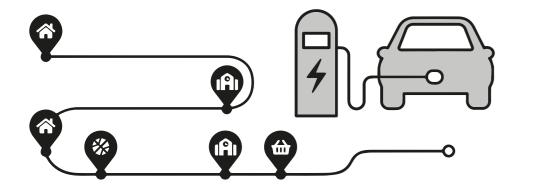








ELECTRIC VEHICLE ENGINEERING



WHY PARMA

The increasing success of electric propulsion vehicles is causing disruptive changes to the automotive industry. In particular, new professional figures devoted to developing and integrating the main electrical components that go into the new generation of vehicles and motorbikes are needed. The goal of the Inter-University Master's Degree in Electric Vehicle Engineering is to train engineers capable of operating in this new and

promising field, with particular attention to fully electric solutions and to the mobility problems associated with them.

The Electric Vehicle Engineering course is taught completely in English with particular emphasis on both theoretical and practical contents, thanks to internships performed at the industrial partners' premises and theses carried out in "Project Working" mode at university or industrial laboratories.

WHAT YOU WILL LEARN

- ELECTROMECHANICAL ENERGY STORAGE AND CONVERSION

- ADVANCED ELECTRIC DRIVES AND SENSORS

FIRST YEAR

- DIAGNOSIS AND CONTROL	
- LABORATORY OF BUSINESS PLAN	
- VEHICLE ENERGETICS AND HVAC SYSTEMS	
- ELECTRICAL POWER SYSTEMS FOR SUSTAINABLE MOBILITY	
- ELECTRIC DRIVELINES	
- ELECTROMAGNETIC COMPATIBILITY	
- POWER ELECTRONIC CONVERTERS	
Guided choice elective courses	1:
 COMMUNICATION SYSTEMS: THEORY AND MEASUREMENT 	
 DYNAMICS AND COMPLIANT CONTROL OF ELECTRIC VEHICLES 	
 HARDWARE-SOFTWARE DESIGN OF EMBEDDED SYSTEMS 	
TECHNOLOGIES AND APPLICATIONS OF WIRELESS POWER TRANSFER	
SECOND YEAR	CFU 5
- AUTOMOTIVE POWER CIRCUITS AND ELECTRIC MOTOR DESIGN	1:
- VEHICLE DESIGN AND CONNECTIVITY	
Free choice elective courses:	
Free choice elective courses: • INSTRUMENTATION FOR ELECTRICAL ENGINEERING	
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CAREER OPPORTUNITIES

An Electric Vehicle Engineering engineer has a multidisciplinary training and is able to face all problems relative to the various subsystems of electric vehicles, from motors and batteries through to onboard communication systems. The main professional opportunities enabled by the Master's Degree in Electric Vehicle Engineering are in innovation and development of electric vehicles, advanced design, production planning, management of complex systems in manufacturing or service companies

engaged in the production of premium or racing electric vehicles and motorbikes and in the related supply chains, national and international.

Graduates in Electric Vehicle Engineering can complete their training enrolling in a PhD School or a 2nd level Master's degree.

Graduates also own the skills and the legislative requirements to practice as licensed professional engineers in the Italian *Ordine Professionale degli Ingegneri*, section A, sector B-Industrial.

GENERAL INFORMATION

COUNSELOR FOR TUTORING

PROF. ALESSANDRO TASORA alessandro.tasora@unipr.it

HOW TO FNROLL

Further information corsi.unibo.it/2cycle/ElectricVehicleEngineering - motorvehicleuniversity.com/

DFPARTMENT

CFU 69

Dipartimento di Ingegneria e Architettura - dia.unipr.it Parco Area delle Scienze, 181/A - Campus Universitario

TYPE AND DURATION

Master's Degree - Laurea Magistrale (two years)

DEGREE CLASS

LM-28 Classe delle lauree magistrali in Ingegneria elettrica