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- LABORATORY OF BUSINESS PLAN 3
- VEHICLE ENERGY SYSTEMS AND HVAC SYSTEMS 6
- ELECTRIC DRIVES AND SYSTEMS FOR SUSTAINABLE MOBILITY 6
- ELECTRIC DRIVELINES 6
- ELECTROMAGNETIC COMPATIBILITY 6
- POWER ELECTRONIC CONVERTERS 6

Guided choice elective courses
- COMMUNICATION SYSTEMS: THEORY AND MEASUREMENT 6
- DYNAMICS AND COMPLIANT CONTROL OF ELECTRIC VEHICLES 6
- HARDWARE-SOFTWARE DESIGN OF EMBEDDED SYSTEMS 6
- TECHNOLOGIES AND APPLICATIONS OF WIRELESS POWER TRANSFER 6

SECOND YEAR
- AUTOMOTIVE POWER CIRCUITS AND ELECTRIC MOTOR DESIGN CFU 12
- VEHICLE DESIGN AND CONNECTIVITY 6

Free choice elective courses:
- INSTRUMENTATION FOR ELECTRICAL ENGINEERING 9
- LABORATORY OF ELECTRIC DRIVES 6
- PRODUCT SAFETY, PRODUCT LIABILITY AND AUTOMOTIVE 6
- LABORATORY OF TECHNICAL ENGLISH 3
- LAB OF RELIABLE SYSTEMS DESIGN 3
- VIRTUAL INSTRUMENTATION LABORATORY 3
- MECHATRONICS SYSTEMS MODELING AND CONTROL 9

- FINAL EXAMINATION WITH OPTIONAL INTERSHIP 24

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

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.

ELECTRIC VEHICLE ENGINEERING

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