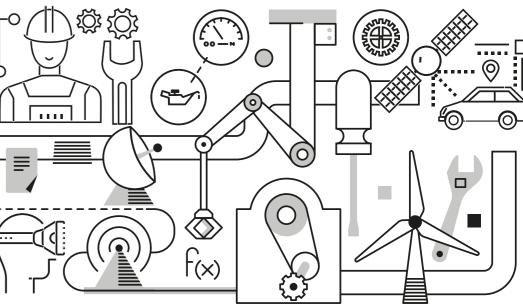




ADVANCED AUTOMOTIVE ELECTRONIC ENGINEERING













Find all the info you need at

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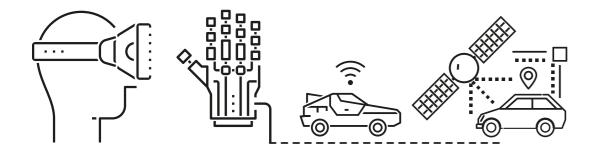








ADVANCED AUTOMOTIVE ELECTRONIC ENGINEERING



WHY PARMA?

Mechanical engineering and electronics melded together to rewrite the definition of what an automobile is, a vision that projects the traditional car into the future. From a collaboration between Emilia Romagna's universities, an inter-university Master's Degree in Advanced Automative Electronic Engineering is now available. Exclusively taught through the English language, the course is aimed at those who will not only design, develop and produce all of the elements that make up our means of transport but also to enrich their range of professional skills

through its focus on Computer Engineering, Electronics and telecommunications with a clear focus on the automotive industry.

By offering a mix of both theory and practice with a strong focus on lab work, students have a chance to immediately experience the world of work. The 'hands-on' nature of the course is a central concept and includes internships with major industrial partners, counted as some of the most advanced within their field in Italy and worldwide.

WHAT ARE YOU GOING TO LEARN?

PRIMO ANNO

- HARDWARE-SOFTWARE CO-DESIGN

OF EMBEDDED SYSTEMS

- APPLIED SIGNAL PROCESSING AND CONTROL

12

- NETWORKING FOR AUTOMOTIVE

9

12 CFU A SCELTA TRA:

- AUTOMOTIVE LIGHTING TECHNOLOGY POW
- TEST, DIAGNOSIS AND RELIABILITY

- POWER ELECTRONICS FOR AUTOMOTIVE

CFU

SECONDO ANNO

- COMPLIANCE DESIGN OF AUTOMOTIVE SYSTEMS
 - 6

12 CFU CREDITI A SCELTA TRA:

- AUTOMOTIVE ELECTRONICS

- AUTOMOTIVE CYBER SECURITY
- ARTIFICIAL VISION
- NEURAL NETWORK COMPUTING AND AI
- COMPUTER VISION, HMI, AND MACHINE LEARNING FOR AUTOMOTIVE
- MODELING AND CONTROL OF ELECTROMECHANICAL SYSTEMS
- AUTOMOTIVE CONNECTIVITY

6 - ADVANCED AUTOMOTIVE SENSORS

- PLASTICS SCIENCE AND MANUFACTURING TECHNOLOGIES FOR THE AUTOMOTIVE INDUSTRIES

ALTRE ATTIVITÀ:

- INDUSTRIAL INTERNSHIP FOR THESIS
- MASERATI LAB IN SMART AREAS
- FINAL PROJECT

- TIROCINIO/ATTIVITÀ PROGETTUALE (9 CFU)
- ESAMI A SCELTA (12 CFU)

WHAT TO EXPECT AFTER THE COURSE

A highly specialized 2.0 engineer with an international outlook – this is the definition of those who successfully complete the AAEE Master's course. The opportunity to study abroad and to acquire high level skills making AAEE graduates competitive immediately both in Italy and beyond. An AAEE graduate can move comfortably between

sectors within the luxury car and motorcycle indus-

try: the planning, development, design, integration and production process management of cutting edge vehicles.

This title allows graduates to work professionally in Sector C - Information, Section A of the Engineers Register or to choose to continue their studies through a Research Doctorate or a 2nd level Master's Degree.

GENERAL INFORMATION

ORIENTATION

PROF. CARLO CONCARI carlo.concari@unipr.it

ADMISSION

For info contact:

corsi.unibo.it/2cycle/AutomotiveElectronicEngineering

DEPARTMENT

Engineering and Architecture - dia.unipr.it

Parco Area delle Scienze, 181/A - Campus Universitario

COURSE TYPE AND DURATION

2-year Master's Degree

DEGREE CODE

LM-29 Electronic Engineering Master's Degree