



UNIVERSITÀ
DI PAVIA

Post-bachelor Program

RACE ENGINEERING



Overview

This one year full-time academic program aims to train highly qualified professionals in race engineering, through a variety of teaching activities. The course includes both theoretical and practical teaching, as well as workshops, and a 5-month internship in industry. Thanks to the partnerships with VI-Grade, ASC (Automotive Safety Centre), Skydrive, ADM, Megaride, Danisi Engineering, Alfa Romeo Maserati, MSC Software, Siemens, Tatuus, J.A.S. Motorsport, Pirelli and Brembo, among others, students have a wealth of opportunities to develop their knowledge and skill in managing all aspects of racing cars.

Students will benefit from:

- 11 days working on a race track, working towards to full technical management
- An Advanced Driving Course
- Practical sessions at both ASC and the Monza circuit
- A variety of Advanced Short Courses taught by professionals
- Access to both static and dynamic simulators
- Workshops with race engineering professionals

Entry Requirements

- Bachelor's or Master's degree in Engineering
- Knowledge of English
- An automotive or mechanical background with work experience is appreciated

Subjects

The study plan is made up as follows:

Teaching Modules: Vehicle Dynamics Fundamental; Virtual Dynamics Design and Simulation; VI-Grade Static Simulator Training; Propulsion: IC & Hybrid; Vehicle Dynamics Control; Advanced Driving Course; Skydrive Dynamic Simulator; Race Track Management and Vehicle Set Up for Performance; Race Engineering Science; Data Acquisition; Biomechanics: Driver/Vehicle Interaction (36 ECTS)

5-month Internship: with racing teams and manufacturers (for example, in the previous editions with Prema, Toro Rosso, Ycom, Lazarus team, Romeo Ferraris) (22 ECTS)

Final Exam (2 ECTS)

Fees

Tuition fee is 15,000 EUR (divided in two installments).

Contacts & Information
Department of Electrical, Computer
and Biomedical Engineering
University of Pavia - Italy



raceengineering.unipv.eu



info.raceeng@unipv.it