

## **MSc in Engineering for Computer Systems**

### **Fall Semester**

This package requires a basic knowledge in Computer Science, as provided by first 3 years of standard undergraduate curricula.

1. code 089164, FORMAL LANGUAGES AND COMPILER, 5 ECTS
2. code 089183, DATA BASES, 5 ECTS
3. code 089184, SOFTWARE ENGINEERING 2, 5 ECTS
4. code 089202, TECHNOLOGIES FOR INFORMATION SYSTEMS, 5 ECTS
5. code 089214, ARTIFICIAL INTELLIGENCE, 5 ECTS
6. code 089216, SOFT COMPUTING, 5 ECTS

### **Spring Semester**

This package requires a customary knowledge in Computer Science, as provided by first 3 years of standard undergraduate curricula, except for the course FORMAL METHODS FOR CONCURRENT AND REAL-TIME SYSTEMS, which requires a knowledge of fundamental elements of Theoretical Computer Science that is not provided by all undergraduate Computer Science curricula.

1. code 089185, HIGH PERFORMANCE PROCESSORS AND SYSTEMS, 5 ECTS
2. code 089231, ENTERPRISE DIGITAL INFRASTRUCTURES AND COMPUTER SECURITY, 10 ECTS
3. Either
  - a. code 089181 THEORETICAL COMPUTER SCIENCE 5 ECTS  
or, as an alternative,
  - b. code 088882, FORMAL METHODS FOR CONCURRENT AND REAL-TIME SYSTEMS, 5 ECTS
4. One or more of the following, for a total of 10 ECTS:
  - a. code 090944 ROBOTICS, 10 ECTS
  - b. code 089318, HYPERMEDIA APPLICATIONS (WEB AND MULTIMEDIA), 5 ECTS,
  - c. code 089012, KNOWLEDGE ENGINEERING, 5 ECTS