



Facultatea de Automatică și Calculatoare

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Master's Degree Program Software Engineering

General Information

Requirements: Bachelor's degree; foundations of Computer and Information Technology
Duration: 4 semesters (3 semesters coursework + 1 semester Dissertation thesis)
ECTS credits: 120
Program language: English
More information: <https://cs.upt.ro/education/master>

Competencies and Knowledge Acquired

- Advanced knowledge of the main topics and problems in the field of software engineering
- Knowledge of current software engineering technologies and ability of selecting and applying them in project development
- Critical, innovative and research abilities
- Skills of communication, inter-disciplinary co-operation and team project management

Curriculum

The curriculum is simple and flexible. It is structured into three components:

- **Core component** – each semester, at least 2 courses must be elected out of the following:
 - Semester 1: *Component Based Software Engineering; Compiler Design; User Interface and User Experience Design*
 - Semester 2: *Advanced Databases; Advanced Distributed Applications; Real Time Systems Design; Heuristic Methods*
 - Semester 3: *Parallel Algorithms; Graphics Processing Systems; FPGA Programming for Software Developers*
- **Elective component** – each semester, 1 course must be elected out of the course list of *any Master program in the field of Computer and Information Technology*
- **Research component** – develops the research skills of the Master student over the four semesters of the program. It contains courses and activities directly related to research and Master Thesis development

Why Master of Software Engineering

- Software is a vital component of the infrastructure supporting our everyday life, while the need for leading-edge applications is constantly increasing at a very high rate
- Become a highly qualified specialist in Software Engineering
- Master the most recent technologies of complex software design, agile development and reliability verification
- Specialty of high demand at national and international level
- Stand out from the crowd – in a highly competitive field, any edge counts!
- Learn new concepts in one of the most important engineering fields
- First step in a possible research career

Benefits and Opportunities

- Software Engineering jobs are among the highest paid and have the highest job satisfaction
- Up-to-date and flexible curriculum – choose your own path
- Well equipped laboratories, good infrastructure, latest technologies

Contact

Universitatea Politehnica Timișoara

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