

Curriculum

Master Program in Computer Science and Engineering



<i>First Semester</i>			
Code	Name of the lesson	Required/Elective	Credit
BIL519	Advanced Algorithm Analysis	Required Courses	6
BIL591	Seminar	Required Courses	6
BIL560	Data Access Systems	Elective Courses	6
	Elective Courses	Required Courses	6
	Elective Courses	Required Courses	6
<i>Second Semester</i>			
Code	Name of the lesson	Required/Elective	Credit
BIL551	Advanced Database Management Systems	Required Courses	6
BIL553	Object Oriented Systems	Required Courses	6
BIL592	Seminar	Required Courses	6
	Elective Courses	Required Courses	6
	Elective Courses	Required Courses	6
<i>Third Semester</i>			
Code	Name of the lesson	Required/Elective	Credit
MET-B01	Individual work	Required Courses	30
BIM791	Thesis	Required Courses	30

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Elective Courses			
Code	Name of the lesson	Required/Elective	Credit
BIL558	Parallel Programming	Elective Courses	6
BIL561	Fuzzy Neural Networks	Elective Courses	6
BIL567	Introduction to Recommender Systems	Elective Courses	6
BIL560	Data Access Systems	Elective Courses	6

Profile of the Programme

The aim of the program is to provide skilled personnel required in the fields of computer engineering and software engineering as well as to train students who plan to pursue an academic career, which is why the program content is designed accordingly. Students fulfilling the graduation requirements are granted the degree of Master of Science in Computer Engineering.

Qualification Requirements and Regulations

A student is required to successfully complete a minimum of 7 courses, not less than 52,5 ECTS credits, take the required seminar and the Field Specialization courses and write and defend a Master's Thesis, have a minimum GPA of 2.50/4.00 and no letter grades lower than CC, YT and no YZ, DZ grades.

Access to Further Studies

May apply to doctorate programmes in any field or proficiency in fine arts programmes.

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Field Qualifications

- 1 Design and apply analytical, modeling and experimental based research; analyzes and interprets complex situations encountered in this process.
- 2 Communicate verbally and in writing using a foreign language at least at European Language Portfolio B2 General Level.
- 3 Describe the social and environmental dimensions of engineering applications.
- 4 Scientific research in the field of engineering to expand and deepen knowledge, evaluate, interpret and apply knowledge.
- 5 Has extensive knowledge about current techniques and methods applied in engineering and their limitations.
- 6 Completes and implements knowledge using scientific methods using limited or incomplete data; integrates knowledge of different disciplines.
- 7 Be aware of new and evolving practices of your profession, examine and learn as necessary.
- 8 Construct engineering problems, develop methods to solve them and apply innovative methods in solutions.
- 9 Develop new and / or original ideas and methods; develop innovative solutions in system, component or process design.
- 10 Lead in multi-disciplinary teams, develop solution approaches and take responsibility in complex situations.
- 11 Transfers the process and results of his / her work in a systematic and explicit way, either in writing or verbally, in the national or international contexts in the field or outside the field.
- 12 Observe social, scientific and ethical values in the collection, interpretation, announcement phases of data and in all professional activities.