

Welcome Meeting 2023

European Master in Software Engineering
– UPM –

<https://emse.fi.upm.es/>

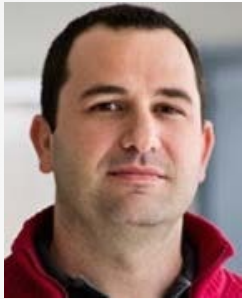
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Program Coordination Committee



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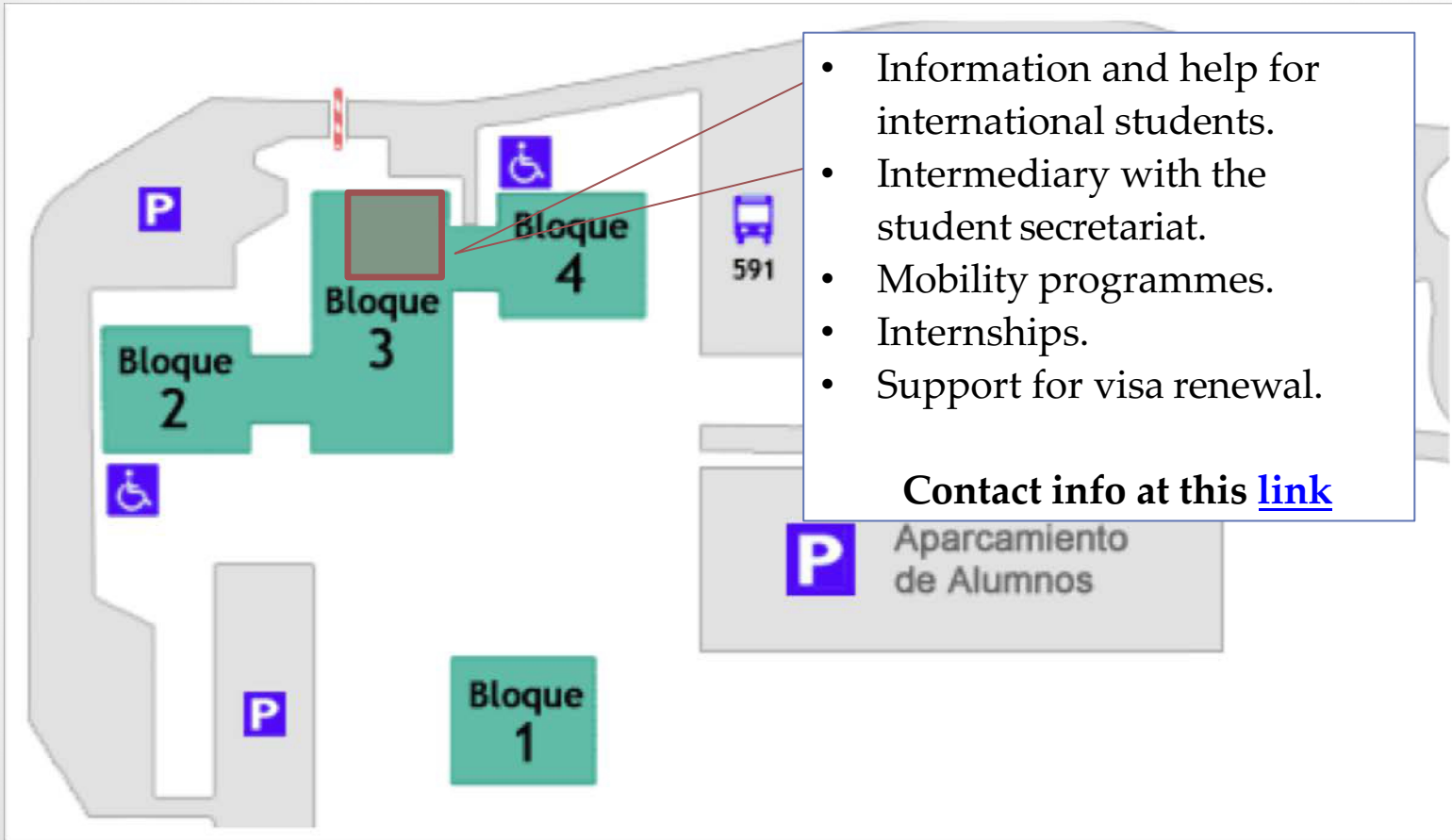
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External Relations Office (OREX)



Structure of the Studies

	1st Semester	2nd Semester	3rd Semester	4th Semester
Compulsory Subjects	5 subjects (24 ECTS)	3 subjects (12 ECTS)	Software Project (14 ECTS)	Master Thesis (30 ECTS)
Elective Subjects	6 ECTS	18 ECTS	16 ECTS	
TOTAL	30 ECTS	30 ECTS	30 ECTS	30 ECTS

Elective Subjects

- List updated annually
- Elective subjects are:
 - Subjects of the *Advanced Software Engineering Aspects* module or
 - Seminars
- *Advanced Software Engineering Aspects* module
 - 14 subjects - 62 ECTS
 - You must complete 40 ECTS (6 + 18 + 16)
 - Some are available in the first/third semester and others in the second/fourth.

Elective Subjects

SUBJECT NAME	ECTS	SEMESTER
Adaptive Systems	4	1
Agile Software Development: Agile Practices and Agile Usability	4	1
Challenges for Accessible Computing for People with Functional Diversity	4	1
Computer Security	4	1
Critical Software	4	1
Data Engineering	4	1
Deep learning and Software Engineering	4	1
E-health: Promoting Active and Healthy Ageing	4	1
Management, Relationships and Communication in Working Groups	4	1
Agent-based Software Development	6	2
Correctness by Construction	6	2
Experimental Software Engineering	6	2
Fundamentals of Business Administration	4	2
Strategic Management & Entrepreneurship	4	2

Academic Calendar

- First semester:
 - Enrolment: closed
 - Regular classes: 11th September to 12th January
 - Compensation for holidays:
 - On Monday 9th October 2023, the classes will follow the schedule of a usual Thursday.
 - Check holidays in [calendar](#)
 - Evaluation period: 15th to 25th January

Academic Calendar

- Second semester
 - Unenrollment for 2nd Semester (max. 12 ECTS): 30th January to 5th February
 - Enrolment (limited, max. 12 ECTS): 6th to 12th February
 - Regular classes: 30th January to 24th May
 - Compensation for holidays in the Spring semester to be defined when 2024 holidays are established
 - Evaluation period: 30th May to 14th June
- Deferred evaluation period: 24th June – 12th July

Timetable

EMSE - First Semester (September-January)

	10:00-11:00	11:00-12:00	12:00-13:00	13:00-14:00	15:00-16:00	16:00-17:00	17:00-18:00	18:00-19:00	19:00-20:00	20:00-21:00
Monday	Programming of User Interfaces		Computer Security		User Experience and Mobile Interaction					
					Verification and Validation		Software Project Management			
Tuesday					Challenges for Accessible Computing for People with Functional Diversity		Software Metrics		Requirements Engineering	
Wednesday			E-Health: Promoting Active and Healthy Aging		Adaptive Systems		Models and Methods for Process Improvement and Assessment		Assessment Activities	
					Data Mining					
Thursday			Programming of User Interfaces		Deep learning and Software Engineering		Verification and Validation		Critical Software	
					Management, Relationships and Communication in Working Groups					
Friday					Agile Software Development: Agile Practices and Agile Usability		Requirements Engineering			



Mandatory Subjects
 Elective Subjects
 Elective Subjects with restricted enrolment (only if required upon admission)



Special Activities
 Mandatory Subjects (weeks 1 to 7)

Timetable

EMSE - Second Semester (February-May)

	12:00-13:00	13:00-14:00	15:00-16:00	16:00-17:00	17:00-18:00	18:00-19:00	19:00-20:00	20:00-21:00
Monday	Strategic Management and Entrepreneurship		Software Architecture		Software Design		Assessment Activities	
Tuesday			Software Quality Management		Experimental Software Engineering			
Wednesday			Agent-Based Software Engineering	Correctness by Construction				
Thursday			Fundamentals of Business Administration					
			Experimental Software Engineering		Agent-Based Software Engineering			
Friday								

 Mandatory Subjects
 Elective Subjects

 Elective Subjects (weeks 1 to 12)
 Special Activities

Seminars

- Seminars are taught by recognized experts coming from the university or the industry.
- Seminars for the incoming semesters will be published in EMSE website throughout the academic year.
 - List of seminars available in the previous academic year is still on the website ([link](#)) for orientation.
- Students have to sign up for seminars through the EMSE website no later than 5 days before the seminar.

Seminars

- You only can enroll in seminar subjects at the enrolment period of the first semester.
 - Seminar subjects have 0.5, 1, 1.5 or 2 credits.
- Two ways of passing a seminar subject:
 - **Enroll + Attend:**
 1. Enroll in seminar subjects (N credits)
 2. Attend seminars that sum N credits
 3. We record your grades in these seminars
 4. We use the recorded grades to grade the seminar subjects
 - **Attend + Enroll** (only in first year):
 1. Attend a seminar of N credits
 2. We record your grade in the seminar
 3. Enroll in a seminar subject of N credits in the second year
 4. We give you the recorded grade in this subject

Student Representatives

- Students elect one course delegate and one sub-delegate to represent them
- They are the contact point between students and professors/EMSE Academic Commission
- Delegate is a member of the EMSE Academic Commission (COAEMSE), attends its meetings, and participates in the decisions

Software Project

- 3rd semester compulsory subject (14 ECTS)
- Practicum (420 hours)
 - Internship in a partner company
 - UPM Research lab
- Procedure:
 1. Registration in COIE web platform (May-...)
 2. Selection between internship offers (July-September)
 3. Enrolment in Software Project subject (July/September)
 4. Internship (starting in September-October)
 5. Submission of Technical Final report (June)
- OREX will support you throughout the process
- Professional and Academic supervisors will evaluate your work.
- Enrolled students will be called for a meeting by the end of October by the Software Project coordinator.

Master Thesis

- 4th semester final compulsory subject (30 ECTS)
- Procedure:
 1. The student selects a Master Thesis work among the proposed by the EMSE professors (November-January)
 2. The student carries out the work with his/her supervisor/s (January-June)
 3. The student requests the defense (20 days before the defense date)
 4. The student submits the MT report (7 working days before the defense date)
 5. The student presents it in public session in front of a board (14th of June/12th of July)
- Possibility of doing the Master Thesis in a company.
- Enrolled students will be called for a meeting by mid October by the Master Thesis coordinator.

Student Mobility

- Double Degree Agreements (December-January)
- ERASMUS+ program (December-January)
 - Erasmus agreements > 100 European universities
 - One or two semesters
 - A monthly stipend provided by European Union
 - Exempt from registration fees at the foreign university
- Presentation about mobility opportunities in October/November.
- OREX will support you with formalities



Enjoy your study at
EMSE!