Freie Universität Bozen
Libera Università di Bolzano
Università Liedia de Bulsan

MASTER OF SCIENCE IN SOFTWARE ENGINEERING

Study plan by year and semester – Cohort 2024/25

First Year

1st Semester		
Course	**CP**	**Exam**

Software Design and Implementation
   M1: Requirements Engineering
   M2: Advanced Software Design Techniques
	12	Yes

Contemporary Software Development	6	Yes
Agile Software Development	6	Yes
Catalogue 1	6	Yes
	30	

2nd Semester		
Course	**CP**	**Exam**
Human Computer Interaction	6	Yes
Verification and Reliability	6	Yes
Software and Systems Security	6	Yes
Seminar in Software Engineering Advances	6	Yes
Cloud Computing and Distributed Systems	6	Yes
	30	

Second year

1st Semester		
Course	**CP**	**Exam**
Research Methods and Technology Transfer	6	Yes
Catalogue 2	6	Yes
Free Choice*	12	**
Internship	6	Pass or fail
	30	

2nd Semester		
Course	**CP**	**Exam**
Thesis***	30	Graduation

	30	

* The student can freely advance or postpone the Free Choice credit points
** The student can choose courses that foresee both exams with grades and pass/fail tests
*** Starting from the second year the student can start with the Thesis Work.

Catalogue1: Advanced Topics in Software Engineering
The student has to choose one course from this catalogue.
The Faculty Council decides annually which courses to activate.

First Semester

Course	CP	Exam
Software Maintenance and Evolution	6	Yes
Software Quality and Metrics	6	Yes
Parallel Computing	6	Yes

Catalogue 2: Specialization Topics
The student has to choose one course from this catalogue.
The Faculty Council decides annually which courses to activate.

 Third Semester

Course	CP	Exam
Information Retrieval	6	Yes
Programming for Data Science	6	Yes
Data Visualization and Exploration	6	Yes
Entrepreneurial Software Engineering	6	Yes

Free Choice
The student is free to choose lectures for a total of 12 credits points. As alternative student can choose an additional Internship to 6 CP (150 h) or 12 CP (300h).
These educational activities must be consistent with the student's academic pathway.
The methods for verifying consistency are decided by the Course Council.
Examinations taken for lectures chosen as Free Choice count as a single examination for the purposes of calculating the total number of examinations taken by the student.