

CORSO DI LAUREA MAGISTRALE IN SOFTWARE PER I SISTEMI INFORMATIVI
MASTER IN SOFTWARE ENGINEERING FÜR INFORMATIONSSYSTEME
MASTER OF SCIENCE IN SOFTWARE ENGINEERING FOR INFORMATION SYSTEMS

Piano di studio per anno e semestre – Coorte 2020/21

Studienplan nach Studienjahr und Semester – Kohorte 2020/21

Study Plan per Study Year and Semester – Cohort 2020/2021

Primo anno / Erstes Jahr / First Year

1st Semester		
Course	CP	Exam
Specialization Topics Programming and Visualization for Data Analytics M1: Data Visualization and Exploration M2: Programming for Data Analytics	12	Si/Ja
Foundations in Software Engineering Contemporary Software Development	6	Si/Ja
Foundations in Software Engineering Requirements and Design for Dependable Systems	6	Si/Ja
Specialization Topics Alternative from Catalogue (see Catalogues at the end)	6	Si/Ja
	30	

2nd Semester		
Course	CP	Exam
Foundations in Software Engineering Verification and Reliability for Dependable Systems	6	Si/Ja
Advanced Topics in Software / Systems Engineering <i>Systems design and implementation</i> M1: Embedded Systems Design and Implementation M2: Design and Development of Business Software	12	Si/Ja
Advanced Topics in Software / Systems Engineering Software and Systems Security	6	Si/Ja
Advanced Topics in Software / Systems Engineering Cloud Computing and Distributed Systems	6	Si/Ja
	30	

Secondo anno / Zweites Jahr / Second Year

1st Semester		
Course	CP	Exam
Software / Systems Engineering Research Research Methods and Technology Transfer	6	Si/Ja
Free Choice*	12	**
Internship	6	Idoneità/Eignung/ Pass or fail
	24	

2nd Semester		
Course	CP	Exam
Advanced Topics in Software / Systems Engineering Alternatives from Catalogue	6	Idoneità/Eignung/ Pass or fail
Thesis	30	Esame finale Abschlussprüfung Graduation
	36	

* Io/la studente può liberamente anticipare o posticipare i crediti Free Choice /
der/die Studierende kann die Free-Choice-Lehrveranstaltungen frei vorverlegen oder verschieben /
The student can move forward or backward Free choice credits

**Io/la studente può scegliere insegnamenti che prevedono sia esami di profitto che prove di idoneità /
der/die Studierende kann Lehrveranstaltungen wählen, die Leistungsprüfungen wie auch Eignungstests
vorsehen /
the student can choose courses that have an exam with a grade or a pass and fail score

Catalogo /Katalog /Catalogue

Specialization Topics

Primo semestre / Erstes Semester / First Semester

Course	CP	Exam
Lean Start-Up and Entrepreneurship	6	Si/Ja
Microcontroller Programming	6	Si/Ja
Introduction to parallel computing	6	Si/Ja
Agile Software Development	6	Si/Ja
Information retrieval	6	Si/Ja

Selected topics: Infobytes (Topics can change) <ul style="list-style-type: none">• Basic electronics and signal processing• Introduction to robotics• Introduction to computer vision	6	Si/Ja
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Catalogo /Katalog /Catalogue

Advanced Topics in Software / Systems Engineering

Quarto semestre/ Viertes Semester / Forth Semester

Course	CP	Exam
Software Maintenance and Evolution	6	Si/Ja
Robotics	6	Si/Ja
Software for Technical Drawing	6	Si/Ja
Mobile Robotics	6	Si/Ja
Programmable Logic Controllers	6	Si/Ja
DevOps	6	Si/Ja