



Academic year 2024-2025

Master in Software and Data Engineering (MSDE)

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Study plan

1st semester (SA 2024-2025)

Core (24 ECTS)	Lecturers	Tags	ECTS
Data Design & Modeling	Brambilla		6
Design 101	Lanza		6
Engineering of Domain Specific Languages	Mocci		3
Programming Styles	Hauswirth		3
Software Design & Modeling	Furia		6

Elective (6 ECTS)	Lecturers	Tags	ECTS
Advanced Java Programming	Binder, Rosà		6
Distributed Systems	Chuprikov		6
High-Performance Computing	Schenk, Eftekhari		6
Mobile and Wearable Computing	Gjoreski		6

2nd semester (SP 2025)

Core (24 ECTS)	Lecturers	Tags	ECTS
Information Modeling & Analysis	Tonella		6
Software Analysis	Furia		6
Software Architecture	Pautasso		6
Visual Analytics	D'Ambros		6

Elective (6 ECTS)	Lecturers	Tags	ECTS
Advanced Networking	Carzaniga		6
Business Process Modeling, Management and Mining	Pautasso		3
Information Security	Langheinrich		6
Security Aspects of Machine Learning	Regazzoni		3

3rd semester (SA 2025-2026)

Core (18 ECTS)	Lecturers	Tags	ECTS
AI-Based Software Testing	Tonella		3
Natural Language Processing for Software Engineering	Tonella		3
Software & Data Engineering Seminar	Lanza, Hauswirth, Pautasso, Furia, Tonella, D'Ambros		6
Software Performance	Hauswirth		6

Elective (12 ECTS)	Lecturers	Tags	ECTS
Advanced Java Programming	Binder, Rosà		6
Distributed Systems	Eugster		6
High-Performance Computing	Eftekhari		6
Mobile and Wearable Computing	Santini		6

4th semester (SP 2026)

Master Thesis			30
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