

Academic year 2019-2020
Master studies in Software Engineering

Year 1 (Series 2019-2021)

Semester 1

MISS1101 **Advanced Software Engineering Techniques** 7.5 ECTS
C: 2 S: 2 L: Ex: E
[Course description](#) [Course webpage](#)

MISS1102 **Formal Methods in Software Engineering** 7.5 ECTS
C: 2 S: 2 L: Ex: EVP
[Course description](#) [Course webpage](#)

MISS1103 **Java Technologies** 7.5 ECTS
C: 2 S: 2 L: Ex: E
[Course description](#)

Optional course (1 out of 7) 7.5 ECTS
C: 2 S: 2 L: Ex: E

MISS1104O1 *Automated and Mechanical Reasoning*

MISS1104O2 *Reverse Engineering*
[Course description](#)

MISS1104O3 *Advanced Topics in Neural Networks*
[Course description](#) [Course webpage](#)

MISS1104O4 *Software Security*
[Course description](#)

MISS1104O5 *Blockchain - foundations and applications*
[Course description](#)

MISS1104O6 *Big Data Analytics*
[Course description](#)

MISS1104O7 *Project Management*

Semester 2

Optional courses (4 out of 6) 7.5 ECTS
C: 2 S: 2 L: Ex: E

MISS1205O1 *Advanced Topics of Machine Learning*
[Course description](#)

MISS1205O2 *Concurrent and distributed programming*
[Course description](#)

MISS1205O3 *Event-based Systems*
[Course description](#)

MISS1205O4	<i>Human-Computer Interaction</i> Course webpage	
MISS1205O5	<i>Software Quality</i> Course description Course webpage	
MISS1205O6	<i>Pragmatic Aspects in Engineering of Cloud Systems</i> Course description	

Year 2 (Series 2018-2020)

Semester 1

MISS2101	Web Application Development C: 2 S: 2 L: Ex: E Course webpage	7 ECTS
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MISS2102	Software Security C: 2 S: 2 L: Ex: E Course description Course webpage	7 ECTS
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	Optional course (1 out of 3) C: 2 S: 2 L: Ex: E	8 ECTS
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MISS2103O1	<i>Distributed Operating Systems</i> Course description	
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MISS2103O2	<i>Reverse Engineering</i> Course description	
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MISS2103O3	<i>Advanced Topics in Neural Networks</i> Course description Course webpage	
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	Optional course (1 out of 3) C: 2 S: 2 L: Ex: E	8 ECTS
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MISS2104O1	<i>Operational Research</i> Course description Course webpage	
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MISS2104O2	<i>Big Data Analytics</i> Course description	
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MISS2104O3	<i>Project Management</i>	
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Semester 2

MISS2205	Ethics and academic integrity C: 1 S: L: Ex: EVP	5 ECTS
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MISS2206	Professional/Research Practice C: S: L: 6 Ex: EVP	12 ECTS
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MISS2207	Dissertation Preparing C: S: L: 7 Ex: EVP	13 ECTS
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