

Academic year 2019-2020
Master studies in Distributed Systems

Year 1 (Series 2019-2021)

Semester 1

MSD1101 **Advanced Software Engineering Techniques** 7.5 ECTS
C: 2 S: 2 L: Ex: E
[Course description](#) [Course webpage](#)

MSD1102 **Formal Methods in Software Engineering** 7.5 ECTS
C: 2 S: 2 L: Ex: EVP
[Course description](#) [Course webpage](#)

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

MSD1103O1 *Web Application Development*
[Course webpage](#)

MSD1103O2 *Digital Processing of Images*
[Course description](#)

MSD1103O3 *Experimental Analysis of Algorithms*
[Course description](#) [Course webpage](#)

MSD1103O4 *Distributed Operating Systems*
[Course description](#)

MSD1103O5 *Operating System Security and Malicious Systems*
[Course description](#)

MSD1103O6 *Blockchain - foundations and applications*
[Course description](#)

Semester 2

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

MSD1205O1 *Models of Distributed Systems*
[Course description](#)

MSD1205O2 *Concurrent and distributed programming*
[Course description](#)

MSD1205O3 *Event-based Systems*
[Course description](#)

MSD1205O4 *Distributed System Specification and Verification*
[Course description](#)

- MSD120505 *Security Protocols. Modelling and Verification*
[Course description](#) [Course webpage](#)
- MSD120506 *Pragmatic Aspects in Engineering of Cloud Systems*
[Course description](#)

Year 2 (Series 2018-2020)

Semester 1

- MSD2101 **Java Technologies** 7 ECTS
 C: 2 S: 2 L: Ex: E
[Course description](#)
- Optional course (1 out of 3)** 7 ECTS
 C: 2 S: 2 L: Ex: E
- MSD210201 *Web Application Development*
[Course webpage](#)
- MSD210202 *Digital Processing of Images*
[Course description](#)
- MSD210203 *Experimental Analysis of Algorithms*
[Course description](#) [Course webpage](#)
- Optional course (1 out of 3)** 8 ECTS
 C: 2 S: 2 L: Ex: E
- MSD210301 *Distributed Operating Systems*
[Course description](#)
- MSD210302 *Operating System Security and Malicious Systems*
[Course description](#)
- MSD210303 *Blockchain - foundations and applications*
[Course description](#)
- Optional course (1 out of 3)** 8 ECTS
 C: 2 S: 2 L: Ex: E
- MSD210401 *Operational Research*
[Course description](#) [Course webpage](#)
- MSD210402 *Special Chapters on Artificial Intelligence*
[Course description](#) [Course webpage](#)
- MSD210403 *Project Management*

Semester 2

- MSD2205 **Ethics and academic integrity** 5 ECTS
 C: 1 S: L: Ex: EVP

MSD2206	Professional/Research Practice C: S: L: 6 Ex: EVP	12 ECTS
MSD2207	Dissertation Preparing C: S: L: 7 Ex: EVP	13 ECTS