

Academic year 2019-2020
Master studies in Computational Optimization

Year 1 (Series 2019-2021)

Semester 1

MOC1101	Advanced Software Engineering Techniques C: 2 S: 2 L: Ex: E Course description Course webpage	7.5 ECTS
MOC1102	Java Technologies C: 2 S: 2 L: Ex: E Course description	7.5 ECTS
	Optional courses (2 out of 3) C: 2 S: 2 L: Ex: E	7.5 ECTS
MOC1103O1	<i>Special Chapters on Artificial Intelligence</i> Course description Course webpage	
MOC1103O2	<i>Advanced Topics in Neural Networks</i> Course description Course webpage	
MOC1103O3	<i>Operating System Security and Malicious Systems</i> Course description	

Semester 2

MOC1205	Advanced Topics of Machine Learning C: 2 S: 2 L: Ex: E Course description	7.5 ECTS
MOC1206	Data Mining C: 2 S: 2 L: Ex: E	7.5 ECTS
MOC1207	Nature Inspired Methods C: 2 S: 2 L: Ex: E Course description	7.5 ECTS
	Optional course (1 out of 2) C: 2 S: 2 L: Ex: E	7.5 ECTS
MOC1208O1	<i>Software Quality</i> Course description Course webpage	
MOC1208O2	<i>Pragmatic Aspects in Engineering of Cloud Systems</i> Course description	

Year 2 (Series 2018-2020)

Semester 1

MOC2101	Operational Research C: 2 S: 2 L: Ex: E Course description Course webpage	8 ECTS
	Optional course (1 out of 2) C: 2 S: 2 L: Ex: E	8 ECTS
MOC210201	<i>Big data analytics</i> Course description	
MOC210202	<i>Blockchain - foundations and applications</i> Course description	
	Optional courses (2 out of 3) C: 2 S: 2 L: Ex: E	7 ECTS
MOC210301	<i>Experimental Analysis of Algorithms</i> Course description Course webpage	
MOC210302	<i>Digital Processing of Images</i> Course description	
MOC210303	<i>Web Application Development</i> Course webpage	
Semester 2		
MOC2205	Ethics and academic integrity C: 1 S: L: Ex: EVP	5 ECTS
MOC2206	Professional/Research Practice C: S: L: 6 Ex: EVP	12 ECTS
MOC2207	Dissertation Preparing C: S: L: 7 Ex: EVP	13 ECTS