

Academic Year 2020-2021
Master studies in Computational Optimization

Year 1 (class 2020-2022)

Semester 1

Compulsory courses

MOC1101	Advanced Software Engineering Techniques C: 2 S: 2 L: 0 Ex: E	7.5 ECTS
MOC1102	Special Chapters on Artificial Intelligence C: 2 S: 2 L: 0 Ex: EVP	7.5 ECTS
MOC1103	Advanced Topics in Neural Networks C: 2 S: 2 L: 0 Ex: E	7.5 ECTS

Optional courses: 1 out of 3

MOC110401	Digital Processing of Images C: 2 S: 2 L: 0 Ex: E	7.5 ECTS
MOC110402	Java Technologies C: 2 S: 2 L: 0 Ex: E	7.5 ECTS
MOC110403	Web Application Development C: 2 S: 2 L: 0 Ex: E	7.5 ECTS

Semester 2

Compulsory courses

MOC1201	Advanced Topics of Machine Learning C: 2 S: 2 L: 0 Ex: E	7.5 ECTS
MOC1202	Data Mining C: 2 S: 2 L: 0 Ex: E	7.5 ECTS
MOC1203	Nature Inspired Methods C: 2 S: 2 L: 0 Ex: E	7.5 ECTS

Optional courses: 1 out of 5

MOC120401	Computer Vision C: 2 S: 2 L: 0 Ex: E	7.5 ECTS
MOC120403	Software Quality C: 2 S: 2 L: 0 Ex: E	7.5 ECTS
MOC120404	Pragmatic Aspects in Engineering of Cloud Systems C: 2 S: 2 L: 0 Ex: E	7.5 ECTS

MOC120405	Event-based Systems					7.5 ECTS
	C: 2	S: 2	L: 0	Ex: E		
MOC120406	Concurrent and Distributed Programming					7.5 ECTS
	C: 2	S: 2	L: 0	Ex: E		

Year 2 (class 2019-2021)

Semester 1

Compulsory courses

MOC2101	Operational Research					7.5 ECTS
	C: 2	S: 2	L: 0	Ex: E		

Optional courses: 3 out of 6

MOC210201	Big Data Analytics					7.5 ECTS
	C: 2	S: 2	L: 0	Ex: E		

MOC210202	Blockchain - foundations and applications					7.5 ECTS
	C: 2	S: 2	L: 0	Ex: E		

MOC210203	Experimental Analysis of Algorithms					7.5 ECTS
	C: 2	S: 2	L: 0	Ex: E		

MOC210204	Digital Processing of Images					7.5 ECTS
	C: 2	S: 2	L: 0	Ex: EVP		

MOC210205	Web Application Development					7.5 ECTS
	C: 2	S: 2	L: 0	Ex: E		

MOC210206	Automated and Mechanical Reasoning					7.5 ECTS
	C: 2	S: 2	L: 0	Ex: E		

Semester 2

Compulsory courses

MOC2201	Ethics and academic integrity					5 ECTS
	C: 1	S: 0	L: 0	Ex: EVP		

MOC2202	Professional/Research Practice					12 ECTS
	C: 0	S: 0	L: 6	Ex: EVP		

MOC2203	Dissertation Preparing					13 ECTS
	C: 0	S: 0	L: 7	Ex: EVP		