Data Science Master Program Regulations of 2020

Recommended Course of Study when starting in winter semester

Total: 30 ECTS



1st semester	2nd semester	3rd semester	4th semester
Module MD 5: Big Data	Module MD 4: Project Work		Module MD 6: Master Thesis
Big Data Analytics (4+2); 9 ECTS; Graded module exam	Case Studies (4P) or External Internship; 8 ECTS; Graded partial work	Seminar (2S); 4 ECTS; Graded partial work	Prerequisites: Modules MD 1 and MD 4 30 ECTS;
Module MD 2: Statistical Theory	Module MD 1: Advanced Statistical Learning		Course achievement: Advanced Seminar ("Oberseminar"); Graded module exam: Master Thesis
Statistical Theory (4+2); 9 ECTS; Graded module exam	Advanced Statistical Learning (4+2); 9 ECTS; Graded module exam	Graded module exams or accumulated graded exams (at least 24 ECTS in total)	
	Elective courses: Methods	a (acrease 2 / 2015 iii cottai)	
Module MD 3: Data Science in Practice	Elective modules from catalogue	(In the entire elective area – Methods and Applications – modules with a total of 45 ECTS are to be chosen.)	
Programming course (2 to 4 P); 3 ECTS; Data Science in Context (2); 3 ECTS;	Elective courses: Applications Elective modules from catalogue	Graded module exams or accumulated graded exams	
Accumulated graded exams	Liective illoudies from Catalogue	(at least 16 ECTS in total)	

Total: 30 ECTS

blue: courses at the Faculty of Statistics green: courses at the Faculty of Computer Science brown: (joint) courses at this or other faculties

Total: 30 ECTS

Denoted hours: S: Seminar P: Practical course

Total: 30 ECTS

else: Lecture + Tutorial or Lecture only

1st semester

Data Science Master Program Regulations of 2020

2nd semester

Recommended Course of Study when starting in summer semester

4th semester



3rd semester

Module MD 1:	Module MD 4:		Module MD 6:
Advanced Statistical Learning	Project Work	Case Studies (4P) or External Internship; 8 ECTS;	Master Thesis
Advanced Statistical Learning (4+2); 9	Seminar (2S); 4 ECTS;		Prerequisites: Modules MD 1 and
ECTS;		Accumulated graded exams	MD 4
Graded module exam			
Elective courses:	Module MD 5:		30 ECTS;
Methods	Big Data		Course achievement: Advanced Seminar
	T T	Graded module exams or accumulated	("Oberseminar");
Elective modules from catalogue	Big Data Analytics (4+2); 9 ECTS;	graded exams	Graded module exam: Master Thesis
	Graded module exam		
		(at least 24 ECTS in total)	
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	Module MD 2:		
	Statistical Theory		
	Statistical Theory (4+2); 9 ECTS;		
	Graded module exam	(In the entire elective area – Methods and	
		Applications – modules with a total of 45	
		ECTS are to be chosen.)	
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Module MD 3:	Elective courses:	Elective modules from catalogue	
Data Science in Practice	Applications		
		Graded module exams or accumulated	
Programming course (2 to 4 P); 3 ECTS;	Data Science in Context (2); 3 ECTS;	graded exams	
Accumulated graded exams		(at least 16 ECTS in total)	

Total: 30 ECTS Total: 30 ECTS Total: 30 ECTS Total: 30 ECTS Total: 30 ECTS

blue: courses at the Faculty of Statistics green: courses at the Faculty of Computer Science brown: (joint) courses at this or other faculties Denoted hours: S: Seminar P: Practical course

else: Lecture + Tutorial or Lecture only