STATISTICAL METHODS AND APPLICATIONS (SMA)

Academic year 2023-2024 Curriculum DATA ANALYST

12 Exams + other educational activities

Educational Activities		ECTS	Year	Term
Characterizing	Mandatory: no choice			
51 ECTS	1. Stochastic processes	9	1	1
	2. Bayesian modelling or Probability and Statistics	9	1	1
	3. Advances in data analysis and statistical modelling or Probability and Statistics	9	1	1
	4. Sample surveys	9	1	2
	5. Applied Econometrics	6	1	2
	6. Spatial statistics and statistical tools for environmental data	9	2	1
Supplementary	Elective: you can choose courses for the corresponding number of ECTS			
24 ECTS	7-10. Algorithms and data structures	6	1	2
	7-10. Statistical learning	6	1	2
	7-10. Computational statistics	6	2	1
	7-10. Data driven decision making	6	2	1
	7-10. Multiple time series modelling	6	2	2
	7-10. Efficiency and productivity analysis	6	2	2
	7-10. Big data analytics	6	2	2
Free choice	Elective: you can choose activities/courses for the corresponding total number of ECTS			
12 ECTS	11-12. Free-choice exams from the list of available courses/AAF at Sapienza	12	1	1
Other educational activities	AAF on INFOSTUD: you can choose activities/courses for the corresponding number of ECTS			
12 ECTS	 Complementary activities Complementary activities Introduction to computer programming Laboratory of stochastic processes Case studies and statistical consulting Laboratory of financial and monetary statistics Laboratory of machine learning Laboratory of data driven decision making 	6 3 3 3 3 3 3 3 3	1 1 1 1 1 1 2	1 1 1 2 2 2 1

Master Thesis

21 ECTS Master Thesis		21	2	2
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