

STATISTICAL METHODS AND APPLICATIONS (SMA)

Academic year 2020-2021

Curriculum OFFICIAL STATISTICS

Educational Activities		Ects	Year	Term
Characterizing Mandatory Courses				
54 ECTS	1. Stochastic processes	9	1	1
	2. Bayesian modeling	6	1	1
	3. Sample surveys	9	1	2
	4. Data management in official statistics	6	1	2
	5. Data quality and other issues in official statistics	6	1	2
	6. Laboratory of financial and monetary statistics	3	1	2
	7. Spatial statistics and statistical tools for environmental data	9	2	1
	8. Advanced economic statistics	6	2	1
Supplementary Elective Courses				
Choose for a total of 9 ECTS	- Advances in data analysis and statistical modeling or Probability and Statistics	9	1	1
	- Financial econometrics	9	2	2
Choose for a total of 6 ECTS	- Big data for official statistics	6	1	1
	- Algorithms and data structures	6	1	2
	- International Demography	6	2	1
	- Big Data Analytics	6	2	2
	- Computational statistics	6	2	2
	- Efficiency and productivity analysis	6	2	2
	- Survey methodology	6	2	2
Other educational activities				
Choose for a total of 9 ECTS	11. Free-choice exam from the list of available exams at Sapienza	9	2	1
9 ECTS	12. Internship/Stage	9	1	2
Choose for a total of 3 ECTS	• Laboratory of stochastic processes	3	1	1
	• Complementary activities	3	1	1
	• Case studies and statistical consulting	3	1	2
	• Laboratory of machine learning	3	1	2
Master Thesis		30		

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