

STATISTICAL METHODS AND APPLICATIONS (SMA)

Academic year 2019-2020

Curriculum DATA ANALYST

Educational Activities		Ects	Year	Term
Characterizing	Mandatory Courses			
	1. Stochastic processes	9	1	1
	2. Bayesian modelling or Probability and Statistics	9	1	1
	3. Sample surveys	9	1	2
	4. Advances in data analysis and statistical modelling	9	2	1
	5. Spatial statistics and statistical tools for environmental data	9	2	1
	6. Advanced Economic Statistics	6	2	1
Supplementary	Elective Courses			
Choose four courses for a total of 24 ECTS	- Algorithms and data structures	6	1	2
	- Big data analytics	6	2	2
	- Computational statistics	6	2	2
	- Data driven decision making	6	2	1
	- Efficiency and productivity analysis	6	2	2
	- Statistical learning	6	1	2
Other educational activities				
Choose from the list of available exams at Sapienza	11. Free-choice exam	12	1	1
Choose from the displayed activities for a total of 12 ECTS	• Laboratory of stochastic processes	3	1	1
	• Laboratory of statistical decisions	3	1	1
	• Laboratory of financial and monetary statistics	3	1	2
	• Laboratory of machine learning	3	1	2
	• Laboratory of data driven decision making	3	2	1
	• Case studies and statistical consulting	3	2	1
	• Complementary activities	3	1	1
	• Complementary activities	6	1	1
Master Thesis		21	2	2