

# STATISTICAL METHODS AND APPLICATIONS (SMA)

Academic year 2019-2020

## Curriculum QUANTITATIVE ECONOMICS

Educational Activities		Ects	Year	Term
<b>Characterizing</b>	<b>Mandatory Courses</b>			
	1. Stochastic processes	9	1	1
	2. Advances in data analysis and statistical modelling	9	1	1
	3. Sample surveys	6	1	2
	4. Financial econometrics	9	1	2
	5. Efficiency and productivity analysis	9	1	2
	6. Advanced economic statistics	6	2	1
<b>Supplementary *</b>	<b>Elective Courses</b>			
Choose two courses for a total of 18 ECTS	- Applied economics	9	2	2
	- Bayesian modelling	9	2	1
	- Computational statistics	9	2	2
	- Economic History	9	2	2
	- International monetary economics	9	1	2
Choose three courses for a total of 18 ECTS	- Algorithms and data structures	6	1	2
	- Big data analytics	6	2	2
	- Development finance	6	2	2
	- Gender economics	6	2	1
	- Statistical learning	6	2	1
<b>Other educational activities</b>				
Choose from the list of available exams at Sapienza	12. Free-choice exam	9	1	1
Choose from the displayed activities for a total of 6 ECTS	• Laboratory of stochastic processes	3	1	1
	• Laboratory of financial and monetary statistics	3	1	2
	• Laboratory of machine learning	3	1	2
	• Case studies and statistical consulting	3	2	1
	• Reading seminars	3	2	2
	• Complementary activities	3	1	1
	• Complementary activities	6	2	1
Master Thesis		21	2	2

(\*) At least 18 ECTS to be selected within those related to economic subjects (for details see SECS-P/01 label corresponding to the SSD column in the official table displayed [here](#))

*last update: 28 november, 2019*