

DOUBLE DEGREE PROGRAMME Quantitative economics

with Università Ca'Foscari Venezia

Subject to approval by Aix-Marseille University (CFVU and CA)















M1 Master ECONOMICS FINANCE AND SUSTAINABILITY track QEM M2 Master ECONOMICS track ETE or APE or EBDS

The first year will take place in Italy, Ca'Foscari Venezia

Track - Quantitative Economics master (QEM)

Courses – Quantitative Economics	ECTS	
Microeconomics I	7	
Macroeconomics I	7	
Optimization	7	
Probability Theory	7	
Microeconomics II	7	
Macroeconomics II	7	
Econometrics	7	
Behavioural Economics	6	
4 ECTS credits to be chosen from the following exams		
Italian as foreign language I	4	
English as foreign language I	4	
French as foreign language I	4	
Spanish as foreign language I	4	
German as foreign language I	4	

The second year will take place in France, AMSE graduate school, Aix-Marseille University

The student chooses one programme between one of the three following tracks:

Track 1 - Empirical and theoretical economics (ETE)

Courses Empirical and theoretical economics – Term 3	ECTS
Common core	9
- Advanced macroeconomics	
- Advanced microeconomics	
- Advanced econometrics	
Economics of networks - Development economics	6
- Economics of networks	
- Development economics	
Introduction to research	3
Elective teaching units (choose 1 among 2)	6
- Political economy - Incentives theory	6
- Macroeconomic cycles - Dynamic macroeconomics	6
Elective teaching units (choose 1 among 2)	6
- Public choice - International trade	6
- Health economics - Environmental economics	6
Courses Empirical and theoretical economics – Term 4	ECTS
Research methodology I and II	4
Research dissertation or end-of-study internship with report and defence	20
Elective teaching units (choose 1 among 2)	6
- Labor economics - Labor econometrics	6
- Advanced econometrics	















Track 2 - Economic policy analysis (APE)

Courses Economic policy analysis – Term 3	ECTS
Methodology	6
- Writing and oral communication training	
- Project management	
Decision-making support: quantitative methods	6
- Quantitative tools in economics	
- Public policies econometrics	
Contemporary economy issues	9
- Applied economics issues	
- Big data and public policies	
- Transitions and economic policies	
Elective teaching units (choose 3 among 6)	9
- Economics, finance and crises	3
- Programming for Big Data (Python, SQL, noSQL, etc)	
- Development economics	3
- Health economics	
- Environmental economics	
- Housing economics	3
Courses Economic policy analysis – Term 4	ECTS
Knowledge of the professional environment	6
- Corporate strategy	
- Collaborating with public organizations	
End-of-study internship with report and defence	24

Track 3 - Econometrics, Big Data, Statistics (EBDS)

Courses Econometrics, Big Data, Statistics – Term 3	ECTS
Non-linear models: theory and applications	6
- Transition and duration models	
- Models for truncated and censored variables	
Advanced econometrics I: theory and applications	6
- Non parametric methods in econometrics	
- Multivariate and non-linear time series	
Advanced econometrics II: theory and applications	6
- Methodology of econometrics and statistical studies	
- Advanced econometrics	
Languages, softwares and tools for Big Data	6
- Programming for Big Data (Python, SQL, noSQL, etc)	
- Software for big data	
Applications for Big Data: elective teaching units (choose 2 among 4)	6
- Big data and public policies	3
- Big data and quantitative marketing	3
- Big data and finance	3
- Big data: other applications	3
Courses Econometrics, Big Data, Statistics – Term 4	ECTS
Advanced methods in Big Data	9
- Automatic model selection methods	
- Predictive methods	
- Machine learning and statistical learning	
End-of-study internship with report and defence	21

















CONTACTS

Please do not hesitate to contact us if you have any question or concern.

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