



# DOUBLE DEGREE PROGRAMME

## with Konstanz university

**The first year will take place in Germany/Konstanz**

<b>TERM 1 - Courses</b>	<b>ECTS</b>
Advanced Econometrics	10
Advanced Macroeconomics I	10
Advanced Microeconomics I	10

<b>TERM 2 - Courses</b>	<b>ECTS</b>
Four courses and one seminar from the following areas:	
Advanced Microeconomics II	6
Applied Time Series	8
Choose between:	
Computational Economics	10
International Monetary Economics	8
Political Economy	10
Economics of taxation	8
Risk Management	8
Labour market search	10

**The second year will take place in France/Marseille**

The student may choose between one of the four tracks:

#### **Track 1 - Empirical and theoretical economics (ETE)**

<b>TERM 3 - Courses</b>	<b>ECTS</b>
Common core	9
- Advanced macroeconomics	
- Advanced microeconomics	
- Advanced econometrics	
Economics of networks - Development economics	6
- Economics of networks	
- Development economics	
Introduction to research	3
- Research questions	
Elective teaching units (choose 1 among 2)	6
- Political economy - Incentives theory	6
- Macroeconomic cycles - Automatic model selection methods	6
Elective teaching units (choose 1 among 2)	6
- Public choice - International trade	6
- Health economics - Environmental economics	6
<b>TERM 4 - Courses</b>	<b>ECTS</b>
Research methodology	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
- Theoretical econometric - Dynamic macroeconomics	6

## Track 2 - Economic policy analysis (APE)

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

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

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

## Track 4 - Quantitative finance and insurance (FQA)

TERM 3 - Courses	ECTS
Theory of financial markets - Models of finance - Portfolio management	6
Economic and financial analyses - Corporate finance I - Economics of risk and insurance	6
Mathematics and statistics for finance - Stochastic finance - Econometrics of banking and finance	6
Quantitative methods in finance and insurance - Big data and finance - Actuarial science I	6
Economics of finance - Economics, finance, and crises - Innovation and finance	6
TERM 4 - Courses	ECTS
End-of-study internship with report and defence	24
Elective teaching units (choose 2 among 4) - Numerical methods for finance - Actuarial science II - Corporate finance II - Credit risk	6 3 3 3 3



## CONTACTS

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

Aix-Marseille School of Economics

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