



# DOUBLE DEGREE PROGRAMME

## with Konstanz university

The first year will take place in Germany/Konstanz

TERM 1 - Courses	ECTS
Advanced Econometrics	10
Advanced Macroeconomics I	10
Advanced Microeconomics I	10

TERM 2 - Courses	ECTS
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

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

## Track 2 - Economic policy analysis

TERM 3 - Courses	ECTS
Methodology - Writing and oral communication training - Project management	6
Decision-making support: quantitative methods - Quantitative tools in economics - Public policies econometrics	6
Contemporary economy issues - Applied economics issues - Big data and public policies - Transitions and economic policies	9
Elective teaching units (choose 3 among 6) - Economics, finance and crises o Economics, finance and crises - Programming for Big Data (Python, SQL, noSQL, etc) o Programming for Big Data (Python, SQL, noSQL, etc) - Development economics o Development economics - Health economics o Health economics - Environmental economics o Environmental economics - Housing economics o 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

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

## Track 4 - Quantitative finance and insurance

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 ○ Numerical methods for finance - Actuarial science II ○ Actuarial science II - Corporate finance ○ Corporate finance II - Credit risk ○ 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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