

Teaching plan - PhD programme in Economics and Statistics (ECOSTAT)

36° Cycle a.y. 2020/2021 and 2021/2022

Course	SSD	hrs	credits	Educational form*	Type of activity**	Mandatory/Chosen activity
1° year						
<u>Computational Statistics I</u>	SECS-S/01	15	1,875	lecture	curricular	mandatory/curriculum Economics
<u>Mathematics I</u>	SECS-S/06	16	2,000	lecture	curricular	mandatory/curriculum Economics
<u>Mathematics II</u>	SECS-S/06	18	2,250	lecture	curricular	mandatory/curriculum Economics
<u>Mathematics - Linear Algebra</u>	SECS-S/06	8	1,000	lecture	curricular	mandatory/curriculum Economics
<u>Mathematics III</u>	SECS-S/06	16	2,000	lecture	curricular	mandatory/curriculum Economics
<u>Mathematical Analysis I</u>	MAT/01	15	1,875	lecture	curricular	mandatory/curriculum Statistics
<u>Mathematical Analysis II</u>	MAT/01	15	1,875	lecture	curricular	mandatory/curriculum Statistics
<u>Mathematical Analysis III</u>	MAT/01	15	1,875	lecture	curricular	mandatory/curriculum Statistics
<u>Numerical Optimization</u>	MAT/01	12	1,500	lecture	curricular	mandatory/curriculum Statistics
<u>Econometrics I - The Linear Regression Model</u>	SECS-P/05	18	2,250	lecture	curricular	mandatory/curriculum Economics
<u>Econometrics II - Microeconometrics</u>	SECS-P/01	15	1,875	lecture	curricular	mandatory/curriculum Economics
<u>Econometrics III - Time Series</u>	SECS-P/05	16	2,000	lecture	cross-curricular	mandatory
<u>Microeconomics I - Consumption, Production and Market Forms</u>	SECS-P/01	15	1,875	lecture	curricular	mandatory/curriculum Economics
<u>Microeconomics II - Game Theory</u>	SECS-P/01	20	2,500	lecture	curricular	mandatory/curriculum Economics
<u>Microeconomics III - Contract Theory</u>	SECS-P/01	15	1,875	lecture	curricular	mandatory/curriculum Economics
<u>Microeconomics IV - Industrial Organization</u>	SECS-P/01	15	1,875	lecture	curricular	mandatory/curriculum Economics
<u>Probability I</u>	SECS-S/01	18	2,250	lecture	curricular	mandatory/curriculum Statistics
<u>Probability II</u>	SECS-S/01	12	1,500	lecture	curricular	mandatory/curriculum Statistics

<u>Stochastic Processes</u>	SECS-S/01	15	1,875	lecture	curricular	mandatory/curriculum Statistics
<u>R for Data Science</u>	SECS-S/01	16	2,000	lecture	curricular	mandatory/curriculum Statistics
<u>Statistical Inference I</u>	SECS-S/01	15	1,875	lecture	curricular	mandatory/curriculum Statistics
<u>Macroeconomics I</u>	SECS-P/01	18	2,250	lecture	curricular	mandatory/curriculum Economics
<u>Macroeconomics II</u>	SECS-P/01	12	1,500	lecture	curricular	mandatory/curriculum Economics
<u>Macroeconomics - Applications</u>	SECS-P/01	12	1,500	lecture	curricular	mandatory/curriculum Economics
<u>Macroeconomics III</u>	SECS-P/01	12	1,500	lecture	curricular	mandatory/curriculum Economics
<u>Computational Statistics II</u>	SECS-S/01	12	1,500	lecture	cross-curricular	mandatory
<u>Research Methods I</u>	SECS-P/01	15	1,875	lecture	curricular	mandatory/curriculum Economics
<u>Finance I - Empirical Corporate Finance</u>	SECS-P/11	15	1,875	lecture	curricular	chosen/curriculum Economics
<u>Finance II - Asset Pricing Theory</u>	SECS-S/06	15	1,875	lecture	curricular	chosen/curriculum Economics
<u>Finance III - Banking</u>	SECS-P/11	15	1,875	lecture	curricular	chosen/curriculum Economics
<u>Statistical Inference II</u>	SECS-S/01	15	1,875	lecture	curricular	mandatory/curriculum Statistics
<u>Statistical Inference III</u>	MAT/06	15	1,875	lecture	curricular	mandatory/curriculum Statistics
<u>Bayesian Statistics I</u>	SECS-S/01	18	2,250	lecture	curricular	mandatory/curriculum Statistics
<u>Bayesian Statistics II</u>	SECS-S/01	12	1,500	lecture	curricular	mandatory/curriculum Statistics
<u>Data Management</u>	ING-INF/05	15	1,875	lecture	curricular	mandatory/curriculum Statistics
<u>Statistical Learning and Big Data I</u>	SECS-S/01	12	1,500	lecture	curricular	mandatory/curriculum Statistics
<u>Statistical Learning and Big Data II</u>	SECS-S/01	16	2,000	lecture	curricular	mandatory/curriculum Statistics
<u>Statistical Learning and Big Data III</u>	SECS-S/01	8	1,000	lecture	curricular	mandatory/curriculum Statistics
<u>Statistical Modelling I</u>	SECS-S/01	12	1,500	lecture	curricular	mandatory/curriculum Statistics
<u>Statistical Modelling II</u>	SECS-S/01	12	1,500	lecture	curricular	mandatory/curriculum Statistics
<u>Statistical Modelling III</u>	SECS-S/01	12	1,500	lecture	curricular	mandatory/curriculum Statistics

<u>Statistical Modelling IV</u>	SECS-S/03	12	1,500	lecture	curricular	mandatory/curriculum Statistics
<u>Econometrics I - The Linear Regression Model (tutorials)</u>	SECS-P/05	8	1,000	lecture	curricular	mandatory/curriculum Economics
<u>Econometrics II - Microeconometrics (tutorials)</u>	SECS-P/01	9	1,125	lecture	curricular	mandatory/curriculum Economics
<u>Econometrics III - Time Series (tutorials)</u>	SECS-P/05	12	1,500	lecture	cross-curricular	mandatory/curriculum Economics
<u>Microeconomics I - Consumption, Production and Market Forms (tutorials)</u>	SECS-P/01	7	0,875	lecture	curricular	mandatory/curriculum Economics
<u>Microeconomics II - Game Theory (tutorials)</u>	SECS-P/01	8	1,000	lecture	curricular	mandatory/curriculum Economics
<u>Microeconomics III - Contract Theory (tutorials)</u>	SECS-P/01	7	0,875	lecture	curricular	mandatory/curriculum Economics
<u>Microeconomics IV - Industrial Organization (tutorials)</u>	SECS-P/01	7	0,875	lecture	curricular	mandatory/curriculum Economics
<u>Research Methods II</u>	SECS-P/01	15	1,875	lecture	curricular	mandatory/curriculum Economics
2° year						
<u>Spatial Models in Microeconomics</u>	SECS-P/01	15	1,875	lecture	curricular	chosen/curriculum Economics
<u>Social Network Theory</u>	SECS-/P01	15	1,875	lecture	curricular	chosen/curriculum Economics
<u>Financial Frictions</u>	SECS-P/01	15	1,875	lecture	curricular	chosen/curriculum Economics
<u>Unconventional Monetary Policy</u>	SECS-P/01	15	1,875	lecture	curricular	chosen/curriculum Economics
<u>Heterogeneous Agents Models</u>	SECS-P/01	15	1,875	lecture	curricular	chosen/curriculum Economics
<u>Inequality, Polarization and Mobility</u>	SECS-P/01	15	1,875	lecture	curricular	chosen/curriculum Economics
<u>Bootstrap Methods for Time Series</u>	SECS-P/01	15	1,875	lecture	curricular	chosen/curriculum Economics
<u>Economic Forecasting</u>	SECS-P/05	15	1,875	lecture	curricular	chosen/curriculum Economics
<u>Empirical Banking</u>	SECS-P/11	15	1,875	lecture	curricular	chosen/curriculum Economics
<u>Advanced Asset Pricing and Portfolio Management</u>	SECS-P/01	15	1,875	lecture	curricular	chosen/curriculum Economics
<u>Advanced Corporate Finance</u>	SECS-P/07	15	1,875	lecture	curricular	chosen/curriculum Economics
<u>Programming in Python</u>	SECS-P/01	15	1,875	lecture	curricular	chosen/curriculum Economics

<u>Computational Frameworks in Macroeconomics</u>	SECS-P701	15	1,875	lecture	curricular	chosen/curriculum Economics
<u>Estimated DSGE Models</u>	SECS-P/01	15	1,875	lecture	curricular	chosen/curriculum Economics
<u>Data Science & Big Data</u>	SECS-S/01	15	1,875	lecture	curricular	mandatory/curriculum Statistics
<u>R & C++</u>	SECS-S/01	15	1,875	lecture	curricular	mandatory/curriculum Statistics
<u>Spatial Statistics</u>	SECS-S/01	15	1,875	lecture	curricular	mandatory/curriculum Statistics
<u>Statistical Learning</u>	SECS-S/01	15	1,875	lecture	curricular	mandatory/curriculum Statistics
<u>Advanced Statistics</u>	SECS-S/03	15	1,875	lecture	curricular	mandatory/curriculum Statistics
Total hrs/credits		963,00	120,38			

Educational form*

lecture
laboratory training
seminar

Type of activity**

curricular
cross-curricular