

EMOS Study Plan (European Master in Official Statistics)

EMOS certification, granted by the European Statistical System, can be obtained by the students who choose to continue their studies for the [Master's Degree Program in Statistics and Information Management, with a specialization in Data Analytics](#) and that take the following study plan:

1. MANDATORY COURSE UNITS (48,5 ECTS)

Mandatory Course Units	Lectured/Approved in ¹	ECTS	Semester (S)/ Trimester (T)
Forecasting Methods	PG or Master	3,5	T1
Financial and Monetary Statistics	PG	6	S1
Multivariate Data Analysis	PG	6	S1
Time Series Analysis	PG or Master	4	T2
Data Management for Official Statistics	PG	3	T3
Sampling and Estimation	PG	7,5	S2
Econometric Methods	PG or Master	7,5	S2
Statistical Treatment of Data	PG	6	S2
Research Methodologies	Master	5	Annual

2. ELECTIVE COURSE UNITS (16,5 ECTS)

Choose three to four elective course units, totalizing a **minimum of 16,5 ECTS**.

Elective Course Units	Lectured/Approved in ¹	ECTS	Semester (S)/ Trimester (T)
Computational Statistics I	PG	6	S1
Business Intelligence I	Master	7,5	S1
Statistical Communication	PG	3	T4
Data Mining I	PG or Master	7,5	S1
Databases Management	PG	7,5	S1
External Statistics and Globalization	PG	6	S1
Business Intelligence II	PG or Master	7,5	S2
Data Mining II	PG or Master	7,5	S2

¹ PG: Post-Graduation in Statistical Systems

Master: Master in Statistics and Information Management, specialization in Data Analysis

Elective Course Units	Lectured/Approved in ¹	ECTS	Semester (S)/ Trimester (T)
Data Collection, Administrative Sources and Big Data	PG	6	S2
National Accounts	PG	6	S2
Financial Reporting	PG	6	S2
Computational Statistics II	PG	6	S2
Discrete Data Analysis	PG	4	T3
Analysis of Variance	PG	4	T4

3. MASTER THESIS AND INTERNSHIP/ PROJECT (30 ECTS)

- Internship or project developed with the support of the Portuguese National Statistical Institute (INE), the Portuguese Central Bank (Banco de Portugal) or any other Central Bank;
- Master Thesis with a strong link to topics of Statistics of Central Banks.

Mandatory	ECTS	Semester/Trimester
Dissertation/ Work Project	30	Annual