EMOS Study Plan (European Master in Official Statistics)

The **EMOS Certification**, awarded by the European Statistical System (ESS), can be obtained by the students who follow the next path of studies:

1. Mandatory Courses (48,5 ECTS):

Mandatory Courses	ECTS	Semester/ Trimester
Central Banks' Statistics	6	1st Semester
Management of Statistical Systems	6	1st Semester
Multivariate Data Analysis	6	1st Semester
Forecasting Methods	3,5	1st Semester (Trimester 1)
Sampling and Estimation	6	2nd Semester
Econometric Methods	7,5	2nd Semester
Statistical Treatment Of Data	6	2nd Semester
Research Methodologies	7,5	2nd Semester

2. Elective Courses (minimum of 11,5 ECTS):

Choose two to three optional courses, accounting for a minimum of 11,5 ECTS.

Mandatory Courses	ECTS	Semester/ Trimester
Computational Statistics I	6	1st Semester
Business Intelligence	6	1st Semester
Descriptive Data Mining	6	1st Semester
Predictive Data Mining	6	1st Semester
Databases Management	6	1st Semester
Time Series Analysis	4	1st Semester (Trimester 2)
Data Collection, Administrative Sources and Big Data	6	2nd Semester
National Accounts	6	2nd Semester
Financial Reporting	6	2nd Semester
Computational Statistics II	6	2nd Semester
Analysis of Discrete Data	4	2nd Semester (Trimester 3)
Analysis of Variance	4	2nd Semester (Trimester 4)

3. **Master Thesis and Internship/ Project (35 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.