

# NOVA

# IMS

Information  
Management  
School

Postgraduate  
Programme in

## Statistical Systems

with a specialisation in  
**Central Banks' Statistics**

with access to  
Master Degree Programme

IN PARTNERSHIP WITH



BANCO DE  
PORTUGAL  
EUROSYSTEM

WITH THE SUPPORT OF



Irving Fisher Committee on  
Central Bank Statistics

BANK FOR INTERNATIONAL SETTLEMENTS

EMOS' ACCREDITATION



[www.novaims.unl.pt](http://www.novaims.unl.pt)

Instituto Superior de Estatística e Gestão de Informação  
Universidade Nova de Lisboa



## NOVA IMS

The NOVA Information Management School (NOVA IMS) is an unit of Universidade Nova de Lisboa. It is a research based school and the first institution in the Iberian Peninsula to join iSchools, an international organisation that gathers the world top universities in research and teaching in the area of information management.

NOVA IMS offers bachelor, postgraduate, master and doctoral programmes in statistics, information management, and information systems and technologies. NOVA IMS' Programmes are ranked among the top 4 Best Master Programmes in the World according to Eduniversal Masters Ranking 2017.

For more information please see: [www.novaims.unl.pt](http://www.novaims.unl.pt).

## Overview

The postgraduate programme in Statistical Systems, with a specialisation in Central Banks' Statistics, was developed in close collaboration with Banco de Portugal, in order to provide managers and technical staff that work in central banks statistics (namely monetary, balance of payments and financial accounts statistics), either as producers, as analysts or users of statistical information, the fundamental knowledge and skills to the development of their activity. This programme is supported by the European Central Bank and the Irving Fisher Committee on Central Bank Statistics and is accredited by the European Statistical System (SEE) with the EMOS (European Master of Official Statistics) seal.

## Goals

The main goal of this programme is training managers and experts to:

- Develop techniques and methodologies of data collection;
- Master the tools and processes used for the storage, organisation and access to information in an entity responsible for the production of central banks' statistics;
- Apply the statistical and computational methodologies and tools of exploration and analysis of information, to produce official statistics that can add value to decision making;
- Organise and communicate results, in written form and orally, adapting them to the level and specific interests of the audience.

## Target

The programme is targeted at staff of central banks, including producers, analysts or users of statistical information.

The programme is also addressed to all those interested in central banks' statistics, particularly employees in statistical departments of banks and other financial institutions, as well as in national statistical offices and other statistical authorities.

## Coordinators of the Programme

João Cadete de Matos  
Maximiano Pinheiro  
Pedro Simões Coelho

## Study Programme

The programme offers 17 elective course units, which correspond to 106,5 ECTS (European Credit Transfer and Accumulation System). To earn the postgraduate programme diploma, students have to complete 60 ECTS. Students can enroll up to 75 ECTS.

### FALL SEMESTER

Course Units	ECTS
Business Intelligence	6
Central Banks' Statistics	6
Computational Statistics I	6
Databases Management	6
Descriptive Data Mining	6
Management of Statistical Systems	6
Multivariate Data Analysis*	6
Sampling and Estimation*	6

\*Mandatory course unit for students that intend to earn a Master's degree.

### SPRING SEMESTER

Course Units	ECTS
Computational Statistics II	6
Data Collection, Administrative Sources and Big Data	6
Econometric Methods*	7,5
Financial Reporting	6
Forecasting Methods*	7,5
National Accounts	6
Predictive Data Mining	6
Research Methodologies*	7,5
Statistical Treatment of Data*	6

The postgraduate programme gives access to the Master Programme in Statistics and Information Management, with a specialisation in Information Analysis and Management. To earn the Master's degree, students must present a scholarly thesis or a work project in the third semester, which corresponds to 35 additional credits.

## Testimonials



**Sara Liseth // Norges Bank**

From a central bank worker point of view, this postgraduate programme gives you a broad knowledge of different tools and theory of how to collect and handle data, and an introduction of important statistics. The programme gives you a better knowledge of the process behind the disseminated statistics and opportunity to networking with other coworkers around the world. Highly recommended!



**Ricardo Colaço // Banco de Portugal**

The postgraduate programme in Statistical Systems with specialisation in Central Banks' Statistics is essential to learn the statistical production processes of central banks, and it has been quite useful to understand and to perform the work which is done in the Statistics Department. Furthermore, the diversity of its students' nationalities provides us different insights on these processes, which I consider to be an important asset.



**Eder John Pina // Banco de Cabo Verde**

I strongly recommend this postgraduate programme to every central bank's employees interested in Central banks' statistics, especially to those with background on statistics, mathematics and Economy. The programme was well structured regarding the set of subjects provided per semester as well as the infrastructure needed for the abroad students in order to attend/follow the lectures and to interact with the portfolio of products and services.



**Lisa and Barend Debeer // South African Reserve Bank**

The postgraduate programme in Statistical Systems is an excellent programme for any person employed in statistics compilation at central banks or national statistical offices. The programme is well balanced between theory and practice and affords the student many opportunities to apply the lectures in their work environment. It is the most authoritative programme for macroeconomic statisticians working in central banks and will undoubtedly add value to the skills set of employees from junior to senior management. We highly recommend this programme if you are serious about a career in official statistics and especially at a national central bank.



For more information about this postgraduate programme, visit:  
[www.novaims.unl.pt/SE-EBC?lang=EN](http://www.novaims.unl.pt/SE-EBC?lang=EN)

## Academic Calendar and Timetable

The programme lasts 2 semesters and each course unit takes place once a week, in a 2 hour session. The Fall Semester takes place from September until January, and the Spring Semester from February to June. The classes run in an after working schedule (after 4.30 pm, in Lisbon time), 3 to 4 times a week.

## Type of Attendance

The classes run in classroom or by web conference. It is also possible to follow classes in a mix mode: attending classes in classroom in specific periods of the student's choice, and following the rest of the programme by web conference.

The students may choose to follow the postgraduate programme in a part-time format and complete it in the span of 2 academic years.

## Individual Course Units

The participants may choose to follow individual course units, either by web conference or in classroom. In the latter, the students may choose to enroll in the course units, both at the beginning of the Spring Semester or the Fall Semester.

## Applications and Admissions

The applications are online, via NOVA IMS' Applications Portal, in the following link:

[www.novaims.unl.pt/candidaturas/default.aspx](http://www.novaims.unl.pt/candidaturas/default.aspx).

The applications phase for the Fall Semester (individual course units or the whole postgraduate programme) will be held from February to June. For the Spring Semester (only available for individual course units), the applications phase will be held in January.

The selection process is based on the analysis of the applicant's academic and professional curriculum.

## Contacts

If you need more information about the Postgraduate Programme in Statistical Systems, with a specialisation in Central Banks' Statistics, contact any of the elements of this programme's team:

### Coordinator of the Programme

**Pedro Simões Coelho, PhD**

[pse@novaims.unl.pt](mailto:pse@novaims.unl.pt)

### Admissions Advisor

**Joana Aleixo**

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