

Master in Official Statistics

Faculty of Informatics and Statistics
University of Economics, Prague, Czech Republic

Academic year 2019/2020



Academic Guarantor: doc. Ing. Jakub Fischer, Ph.D.

MASTER IN OFFICIAL STATISTICS

This master programme provides students with education in official statistics. Core courses focus on official statistics at the European and national level, national accounts, survey methodology. Other courses concentrate on mathematical statistics, time series analysis and econometrics. The compulsory part of study consists in internship in some state administrative institution.

Graduates who have successfully completed MOS will be able to demonstrate knowledge of:

- the system of official statistics,
- data production models and methods,
- statistical, econometrical and demographic methods and basic IT tools.

The program has been newly accredited with EMOS label (European Master in Official Statistics), awarded by the European Statistical System Committee (ESSC) only to programs which fulfil strict requirements and offer high-quality education.

MOS graduates will be prepared for work at national and international statistical institutes and central banks, and at statistical, analytical and research departments of other central government institutions. MOS graduates are also able to work as analysts at consulting companies, firms, banks and other financial institutions.

Master in Official Statistics	ECTS	Semester			
		1.	2.	3.	4.
Compulsory courses	54	33		6	15
Elective courses	min. 21			21	
Internship in State Statistical Service and Master Thesis Project	30		30		
State exams and thesis defence	15				15
Total sum	min. 120	33	30	27	30

Compulsory courses	Code	ECTS	Semester			
			1.	2.	3.	4.
Economic Demography I	4DM465	3	●			
Economic Statistics	4ES611	6	●			
Introduction to Data Analysis with R and SQL	4ST604	3	●			
National Accounting: Concept and Analyses	4ES618	6	●			
Official Statistics	4ES612	3	●			
Probability and Mathematical Statistics I	4ST621	6	●			

Survey Methodology	4ES610	3	●		
Use MS Excel in Business Practice	4IT522	3	●		
Internship + Master Thesis Project	4ES620	30		●	
Advanced Econometrics 1	4EK608	6			●
Regression	4ST616	6			●
Time Series	4ST631	6			●
Understanding Economic and Social Indicators	4ES526	3			●

Elective courses	Code	ECTS
Advanced Statistical Methods	4ST650	3
Applied Multivariate Statistics	4ST611	6
Case Studies in Operations Research	4EK607	6
Combinatorial Optimization	4EK605	6
Czech for Foreigners	4SA628	4
Economic Demography II	4DM475	6
Information Systems Management	4SA431	3
Information Technologies in Entrepreneurship	4IT487	6
International Finance	1MT491	6
Introduction to Financial and Insurance Mathematics	4ST608	6
Multiple Criteria Decision Making	4EK606	6
Project Management	4EK603	3
Real Data Analysis	4ST606	6
Statistics with R	4ST605	3
International Week courses		3

INTERSHIP

Internship represents the compulsory part of the MOS studies. Internship is planned for the second semester and a part of the Internship covers Master Thesis Project I. Internship and Master Thesis Project I substitute Minor specialization in other Master programmes.

Internship gives students the opportunity to **deepen their knowledge and skills** in practice.

Internship is split in two parts:

1. Practical training in the institution for 320 hours worked (12 credits).
2. Project (for 18 credits) which is developed during the internship under supervision of one teacher and one expert from the institution where the internship was realised.



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