

Concentration in Modern Data Analysis

ISET is proud to announce the launch of The Concentration in Modern Data Analysis (MDA) as part of its MA in Economics program. The concentration aims to provide ISET students with expertise in data (including big data) management and analysis using modern analytical tools. The concentration is currently funded by the *Ministry of Foreign Affairs of Estonia* and is implemented in cooperation with the *University of Tartu*. Students who successfully complete the first year of studies at ISET are eligible to participate in the concentration.

About the Concentration

The concentration includes *6 core elective courses*:

Existing courses:

- Advanced Econometrics (Karine Torosyan, ISET)
- Program Evaluation (Norberto Pignatti, ISET)
- Financial Econometrics (Maksym Obrizan, KSE)

Added courses:

- Introduction to Business Data Analytics (Rajesh Sharma, UT)
- Advanced Business Data Analytics (Rajesh Sharma, UT)
- Geospatial data analysis (Anto Aasa, UT)

Students in MDA concentration should take 5 of these courses (15 credits) during the second year of study (passing grade C or higher). MDA students are advised to take all courses related to the concentration.

Students will be required to *attend seminars and research workshops* specifically designed for the concentration. MDA students will have a chance to participate in *Data Sharing Practices workshop* organized by ISET with participation of local data collecting and analytical organizations. In addition, at the end of the academic year students have to participate in the annual *Data Hackathon* organized by ISET and UT (held in Tbilisi). Student with promising MPs will be encouraged to present their work during the event.

They will also have to write a *Master Project* (MP) related to the concentration. In the case of double concentration, the topic of the MP has to reflect both concentrations.

ISET will assist students accepted into the concentration to secure an *internship* in the field, so that they build some practical experience before entering the job market. During the academic year, MDA students will have additional opportunities to interact with local data users and institutions operating in the region.

Students accepted for the concentration will not graduate until they satisfy all the requirements of the concentration: passing the required courses with at least a score of C, and completing successfully the Master Project.

MDA timetable (major events)

MT1	Student admission into MDA, individual consultations with faculty
MT2	Courses: Advanced Econometrics Introduction to Business Data Analytics MP proposal Data Sharing Practices workshop
MT3	Courses: Advanced Business Data Analytics
MT4	Courses: Geospatial Data Analysis Program Evaluation MP submission
MT5	Courses: Financial Econometrics MP defense workshop Data Hackathon