University of Zagreb, Faculty of Electrical Engineering and Computing

Diploma studies in computing, 1. semester

Ac. year. 2025./2026.

Introduction to Data Science

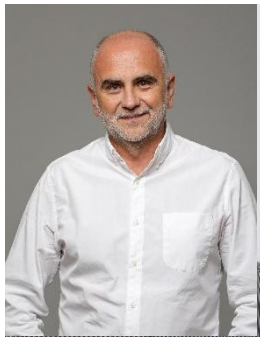
English students introductory lecture

October 2025

Lecturers

Professor **Mile Šikić** – ZESOI, D-104, mile.sikic@fer.hr

Professor **Damir Seršić** – ZESOI, D-106, damir.sersic@fer.hr



Assoc. Prof. **Ana Sović Kržić** – ZEMRIS, D-151, ana.sovic.krzic@fer.hr

Teaching assistants

Rafael Josip Penić, mag. ing. – ZESOI, D-163-1, rafael-josip.penic@fer.hr

Filip Tomas, mag. ing. – ZESOI, D-158, filip.tomas@fer.hr

Eda Jovičić, mag. ing. – ZEMRIS, D-335, eda.jovicic@fer.hr

Ivan Brčić, mag. ing. – ZESOI, ivan.brcic@fer.hr

Leon Stjepan Uroić, mag. ing. – ZESOI, leon-stjepan.uroic@fer.hr

Course obligations

- **Lecture materials (about once a week)**
- **Auditory exercises (about once a week)**
- **Project (homework, each week) – 40 points**
- **Final exam (final week) – 60 points**
- **Other exam terms – 60 points**

- **Grades: 50 (2) - 63 (3) - 75 (4) - 88 (5)**

Lecture materials

- **No oral lectures in English**
- Lecture materials will be available on the course website
- https://www.fer.unizg.hr/en/course/itds

- Contact lecturers in case of any questions regarding a particular topic, as provided on the next slide

Lecture materials

Week	Lecture	Lecturer
1	Experiments	- Ana Sović Kržić (ana.sovic.krzic@fer.hr)
2	Annotations	- Ana Sović Kržić (ana.sovic.krzic@fer.hr)
3	Data sources	- Damir Seršić (damir.sersic@fer.hr) & Statistics - Ana Sović Kržić (ana.sovic.krzic@fer.hr)
4	Visualizing data	- Damir Seršić (damir.sersic@fer.hr)
5	Handling data	- Damir Seršić (damir.sersic@fer.hr)
6	Qualitative analysis & metrics	- Ana Sović Kržić (ana.sovic.krzic@fer.hr)
7	Regression analysis	- Damir Seršić (damir.sersic@fer.hr)
8a8b8c	midterms - no midterm exam	
9	Supervised learning	- Damir Seršić (damir.sersic@fer.hr)
10	Unsupervised learning	- Damir Seršić (damir.sersic@fer.hr)
Holiday weeks		
11	Deep learning	- Mile Šikić (mile.sikic@fer.hr)

Detailed course schedule is available at course website

Auditory exercises

- Available online in English at the course webpage for all enrolled students each week (starting from week 2):

https://www.fer.unizg.hr/en/course/itds/files#%23!p_rep_151237!_-234514

- Will be held live for all students (CRO and ENG) in room M4 (Monday, 12 AM – 2 PM) or D-273 (Thursday, 3 PM – 5 PM), depending on detailed course schedule (available at the course website)
- Compulsory to learn (but not necessarily to attend), part of the final exam
- Needs Python + Jupyter Notebook to execute
- Contact teaching assistant in case of any questions on the topic (contact is given in the Jupyter Notebook)

Project

- Done at home
- Consists of the following stages:

1. Read scientific articles (by October 17, 2025 at 23:59) and register for a particular paper here:

https://docs.google.com/spreadsheets/d/1t7S94TTlUFfiUYMlqs6NmpdT8NYjaNjx/edit?gid=1421665943#gid=1421665943

2. Read in detail the document “Auditory exercises and project instructions” available at the

course website and follow the instructions in it

3. Consult with assistant in charge of the paper for any questions related to scientific article and project execution

Final exam

- Up to **60** points, threshold **25** points
- Project needs to be passed (**10** out of 40 points) in order to attend
- Focus on practical application of lecture topics on data analysis
- Theoretical questions and dataset analysis on computer according to instructions

- Other exam terms with the same structure as the final exam

Other

- For other course-related issues, contact filip.tomas@fer.hr and rafael-josip.penic@fer.hr (we will try to reply as soon as available)
- Hard work and dilligence is expected of all enrolled students
- Final exam and other exam terms have fixed dates, English students attend the exams at the same time as Croatian students
- Any changes in course lectures / auditory exercises / project will be notified via Course News