Course Organization and Exam Instructions

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Course Topics

Course main topics cover:

- Introduction to Causality and Causal Inference

- Bayesian Networks, Causal Networks and Structural Equation Models

- Identification and Estimation of Causal Effects

- Causal Discovery from Observational and Interventional Data

- Conterfactuals Reasoning

The course is organized as follows:

- **13 theoretical lectures** in physical presence of erogative nature

- **5 hands-on sections** in physical presence of erogative and interactive nature

- **6 one-hour long seminars** of erogative and interactive nature

All the lectures and seminars will be recorded and loaded on the page of the course

Course Schedule (2)

Lectures will be held on:

- **Wednesday**: 16:30 – 18:30 - *room: U14-T023*

- **Friday**: 14:30 – 17:30 - *room: U14-T023*

The full calendar is available on the course page. Any changes will be communicated.

Exam Description

The exam is organized in three parts:

- **Oral Presentation**: 10 minutes presentation of a specialized literature scientific paper chosen from a given list

- **Applied Project**: development of a software program implementing one algorithm described in a scientific paper

- **Theoretical Questions**: discussion of the main topics of the course (students may be asked to answer some questions on paper the day of the exam)

No intermediate assessments are scheduled.

Delivery Deadlines:

- Slides must be submitted at least **one day before the exam** session.

- The project must be submitted at least **one week before the exam** session.

Publication Dates:

- Project Instructions will be published on 3 December 2025

Exam Delivery Instructions (2)

Oral Examination

- An upload form will be available on the page of the course.
- Upload the slides named as: BADGENUMBER_SURNAME_NAME_slides.pdf

Project

- An upload form will be available on the page of the course.
- You are expected to submit a Colab Notebook.
- Download the notebook via File > Download > Download .ipynb.
- Upload the notebook named as: BADGENUMBER_SURNAME_NAME_project.ipynb

Exam Evaluation Criteria

Exam Score:

- **Oral Presentation**: up to 15 points

- **Applied Project**: up to 8 points

- **Theoretical Questions**: up to 10 points

The maximum score is 33 points; the *laude* will be awarded for scores over 31 points.