

## MS-E2170 – Simulation (2023): Project work instructions

The objective of the project work is to carry out a simulation study consisting of

- 1) defining the aims of the study,
- 2) constructing a simulation model,
- 3) performing simulation experiments and
- 4) analysing the simulation results.

You can choose your own topic freely, but it should involve a dynamic system and an interesting research question worth investigating. You can use Vensim, or alternatively some other simulation approach, if needed.

The work is performed in teams of 1 to 3 students, 2-person teams are recommended. Please register your team on MyCourses and tell which (or both) time for presentation suit you.

The work is reported in the form of a report and a presentation. The report is expected to be about 6-10 pages long (possible appendices are not included in the page count), and to describe the points 1) to 4) stated above. The report is due one day before the team's presentation. (If required, an extension to the deadline can be arranged – contact the teachers on this.) The presentations are recorded.

The presentation should be approximately 10 min long, followed by a 5 min discussion. There will be a peer evaluation of the reports and presentations, which count towards the project work grade.

There are two possible dates for presentation:

- Thursday, 6 April, 12:00 to 14:00 in Y344
- Thursday, 13 April, 12:00 to 14:00 in Y344

It is mandatory to attend the group presentations. If you have a force major for not attending, you must watch the recording of the presentations and do peer grading based on that.

Max points for project work is 50.

Max point for each home assignment is 25.

Max overall points is thus 150, and these are scaled to obtain final grade.