Course information for 732A99/732A68

Learning activities

The course consists of lectures, lab works, seminars and one final computer-based exam.

Lectures

Lectures are given as streaming Zoom sessions supported by use of PPT/PDF-presentations. The presentation slides are uploaded to LISAM to the folder *Course Documents.* **Due to privacy reasons, the lectures will not be recorded***.* Lecture attendance is not obligatory. To attend lectures, use the following link:

https://liu-se.zoom.us/j/66360963950?pwd=Y0kzTzI4d1F3MXRwYUZKVXNwTnUvUT09

Meeting ID: 663 6096 3950
Passcode: 931747

Labs

The labs are given at campus, see the schedule for details. Attendance of the lab sessions is not obligatory, but it might be very challenging to complete the lab without supervision, so it is recommended to attend these sessions.

Labs are supposed to be solved in the fixed groups containing 3 persons. Students may choose group members themselves using "Sign up" functionality in LISAM (see menu to the left) **but the rule is that groups with students having the same country of origin must be avoided**. If the teacher detects that this rule is violated, the group will be split, and students regrouped.

The lab normally contains 3 assignments, and a group normally contain three persons. To get necessary Machine Learning skills (in particular, for the exam) **each student needs to individually solve all lab tasks during the course.** However, it is suggested that one student has the main responsibility for one assignment in the group report, and this assignment is to be contributed by the group member into the group report. After that, the group is expected to have a discussion and agree on whether the group members believe that all tasks in the group report are solved correctly, and if not, the group report needs to be adjusted. The group report is expected to show the results and the code in such a way that the report document can directly be used for presentation at the seminar. All codes are also expected to be available in the appendix of the report. All groups are strongly advised to introduce group agreements about what is expected to be contributed by each group member and when.

The lab in block 2 has a special structure and rules; see the lab instructions for the details. **The lab in block 2 is supposed to be done by groups of 2 students which is different from the course groups. Groups with students having same country of origin must be avoided.**

The file should be named *Group_X.pdf* where *X* is your group number.

It is also required that the students include the Statement of Contribution in the group report that explains the details of how each member has contributed into the group report. Each group member must contribute equally to the group report, and the statement should describe responsibilities of each group member for different parts of the lab, to prove the equality of contribution. **If the Statement of Contribution is missing the lab report will be failed.**

Seminars

Each seminar is a Zoom session that involves a discussion of the latest lab. **Each seminar session is obligatory for attendance for all students.** Specific groups are assigned to present lab solutions, see "Seminars.PDF" at LISAM/Course documents. Each student in these groups must be prepared to individually present an arbitrary part of the lab (including the codes!) at the seminar by using the PDF of his/her group report, and the selection of the speakers is done randomly during the seminar. Note that all students in the group must be able to report and explain all results and all codes in the group report at the seminar (not only their own results or codes)!

For each seminar, there are groups that act as opponents to the lab solutions provided by the speakers, see "Seminars.PDF" at LISAM/Course documents. The opponent group should examine the group report of the speaker group in advance (before the seminar) and prepare a **minimum of 3 questions/comments/improvement suggestions** to each assignment of the laboratory work. The opponent group is assumed to ask these questions during the seminar.

You are advised to open the text of the lab assignments, your solutions to the assignments before the seminar so that you can make remarks in your report directly during the seminar.

The following link can be used to access the seminars:

https://liu-se.zoom.us/j/61503582144?pwd=UTVjT2pMQU9PZTIrQVZ4bEJIbWd4QT09
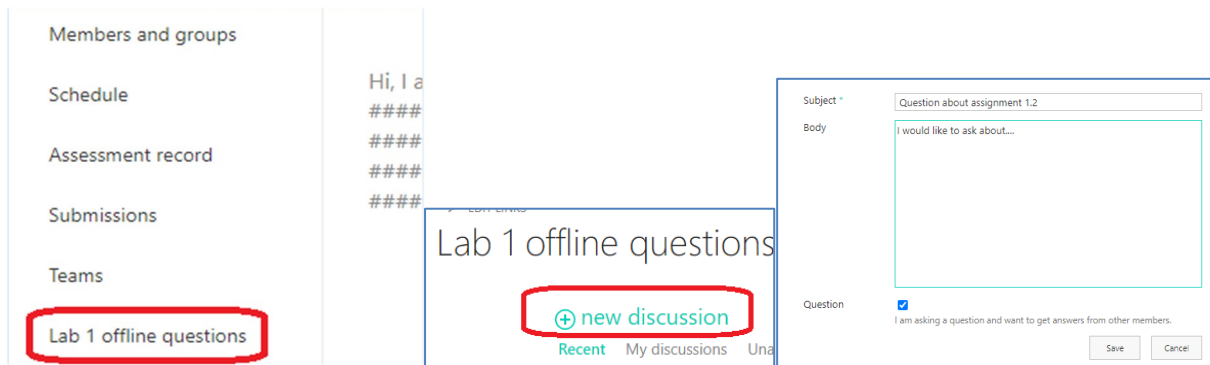
Meeting ID: 615 0358 2144
Passcode: 589899

When joining the meeting, it is crucial that your name is displayed correctly in Zoom. Otherwise, your attendance might not be registered correctly. Specify your Zoom name as *FirstName LastName (LiU-ID),* e.g. "Anders Andersson (anand111)".

Offline Question Answering

Students are supposed to ask their lab questions during the scheduled lab sessions. However, if you have **short** questions in between lab sessions that can be put as a plain text, you may publish them in "Lab X offline questions" forum at LISAM (X= lab number, see figures below). The lab assistants will answer your questions when they have some time available. Quick answers are not to be expected here.

Missed seminars or solutions after deadline

- Each lab has a deadline
  - If submitted more than 70% of solutions before deadline but got FAIL next submission is in January. In this case, **you will get a feedback on your mistakes**. Note that reports need to be complete to get PASS.
  - If submitted less than 70% of solutions before deadline the report is automatically failed and **no feedback on it is given**. The next submission is in January.
  - If the report is not submitted before the deadline, the next submission opportunity is in January.
  - The reports that are failed after the January revision can be submitted again around the second reexamination time (around March-April).
- If you miss a seminar then you can:
  - Either attend the same kind of seminar in autumn 2022
  - Or submit the following complementary task during the complementary lab submission periods, **one per missed seminar**:
    1. Check the reports of the groups that have presented at the seminar that you have missed, they will be published at LISAM→Course documents after the seminar.
    2. Use these reports to present the solution of these groups, including codes, and at the same time talk during the presentation about what was done wrong in their solutions and how these parts should be changed to make it correct. Your presentation should be recorded through Zoom in such a way that your camera is enabled and one can see you speaking in the video.
    3. Just presenting the groups' reports is not enough for passing this task – you should be able **to identify the incorrect parts** in their solutions and talk about **how the incorrect parts need to be corrected**.
    4. Submit your recorded video during the lab resubmission periods. One alternative is to save a video to a secure streaming server (like Youtube Studio) and then submit a private video link to LISAM.

Exam

Exam is akin to labs, the only difference is that you are given a certain amount of hours and that you are not allowed to communicate with others in any way. The materials that you are allowed to use at the exam: the course book and a Word/PDF document containing max 100 A4 pages of the text and figures (all content of the document should be well visible at 100% scale)