



MS-C1350 - Partial Differential Equations, Lecture, 3.9.2024-9.12.2024

This course space end date is set to 09.12.2024 **Search Courses:** [MS-C1350](#)

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/ Department of Mathematics and Systems Analysis / MS-C1350 - Partial Differential Equations, Lecture, 3.9.2024-9.12.2024

Course Grades Course feedback

General

Announcements

Registration:

- Please use Sisu for registering. Registration is already open. If you have some problems, please contact the lecturer Riikka Korte by email.
- Choose one exercise group. You can visit in other groups, if there is space in the classrooms. Everyone will be accepted to the course i.e. we will increase the group sizes if needed.
- **Languages of exercise groups:** The official language of the course is English. Two exercise groups (H01 and H02) will be in Finnish and three in English (H03, H04 and H05). If you already registered, you can move to another group if needed. All the teachers in this course can speak both Finnish and English. We try to use both languages in a flexible way i.e. it is perfectly ok to for example ask for help from the assistants in all the groups in both languages.

Course info

Welcome to the PDE course. The learning objective of this course is to understand fundamental phenomena and techniques related to PDEs that are relevant in mathematics, physics and engineering.

The PDE course will be lectured in English. The course will be 12 weeks long and will run during teaching periods I-II. The tutorial sessions will start in the first week of lectures and will run every week. Homework assignments can be found on Assignments page.

Course practices will be discussed in the first lecture on Tuesday 3 September at 10.15-12.00 in lecture hall B. It is important to attend the first lecture even though information is also available in MyCourses. We have adopted a flipped classroom model for the course in the sense that we cannot cover everything in detail during the lectures. Therefore the participants are expected to study the announced pages of the lecture notes before each lecture. There will be pre-lecture yes or no problems for each lecture (starting from the 2nd lecture week) and it is recommended to try to solve them already before the lecture. The exercise classes will be from Wednesday to Friday (5 groups, each group meets once a week). In the exercise class, you can get help for solving homework problems. The solutions to homework problems are returned online.

Telegram: This course has a Telegram-group, where students can discuss and ask questions from the teaching assistants (the recommended way to contact the lecturer is by email or before/after the lectures). Telegram is an unofficial channel i.e. all official information can be found also in MyCourses. Link to the chat is below.

Enrolment: Please sign in for the course in Sisu by choosing the tutorial session that you will attend. If all the groups are full, send an email to the lecturer (Riikka Korte). Please check that this course is in your primary study plan. If your favourite group is full, please register to some group that has space. You can visit other groups if there is space in the class rooms.

Exams: There will be a course exam on December 9, at 9.00-12.00. (Check the hall from the notice board before the exam -- Sisu information about the hall is usually wrong!) It is possible to pass the course by taking only an exam ("tenti" 100%), but it is different from the course exam ("loppukoe" 55%).

Grading: 55% course exam, 30% homework assignments and 15% pre-lecture assignments. 1% extra for answering to the course feedback.

Instructor: Riikka Korte (riikka.korte@aalto.fi).

Head assistant: Timo Takala (timo.i.takala@aalto.fi) (group H01)

Assistants: Joonas Lindell (joona.lindell@aalto.fi) (group H04), Kasper Väistö (kasper.vaisto@aalto.fi) (group H02) and Qingxin Yang (qing.1.yang@aalto.fi) (groups H03 and H05)

Exercise sessions: H01 Wednesday 12.15-14 Y313 (finnish), H02 Wednesday 16.15-18 M232 (finnish), H03 Thursday 14.15-16 Y313 (english), H04 Wednesday 12.15-14 M240 (first period) Y228b (second period) (english), H05 Friday 14.15-16 Y313 (english).

Weekly schedule:

- **Lectures:** Tuesday 10.15-12.00 (1st lecture: hall B, rest of 1st period: hall U4, 2nd period: hall D).
- **Pre-lecture quizzes** starting from 2nd week. [DL: Tuesday 23.59](#).
- **Exercise classes** meet from Wednesday to Friday. In exercise classes you can get help from the assistants in solving homework assignments. You can also ask about pre-lecture quizzes.
- **Homework assignments:** appear every second week. [DL Friday 23.59](#) (on weeks 2, 4, 6, 8, 10 and 12)
- **Extra assignments:** DL 1st set: Sunday 20.10. 23.59, 2nd set: Sunday 8.12. klo 23.59.

Weekly studying schedule:

1. Read the lecture notes before the lecture.
2. Answer to the pre-lecture quiz (only weeks 2--12).
3. Attend the lecture and ask questions. You can also ask about pre-lecture quizzes.
4. After the lecture, you can still change your answers to the pre-lecture quiz.
5. Attend the exercise class on Wednesday, Thursday or Friday. New set of homework assignment appears every second week (i.e. weeks 1, 3, 5, 7, 9 and 11).
6. Return your solutions to homework assignments by the end of every second week (weeks 2, 4, 6, 8, 10 and 12).

Individual exam arrangements

If you have received a certificate for individual study arrangements for an exam (additional time, separate space, equipment) and you want to have individual math exam arrangements then you must follow the instructions on the following page

<http://math.aalto.fi/exams>

NOTE! The new DL for submitting the form is already November 25!

Starting info slides PDF

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