

Sustainable Building Energy Systems

EEN-E4005 (5 cr)

Course plan 2022

Course staff

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Preferred contact: E-mail and MyCourses



Activities in the course

- Six (6) learning assignments (to be submitted via MyCourses)
- On-line learning:
 - Self-studying, "learning by doing"
 - Instruction via email/MyCourses discussion
 - Teacher's receptions
 - Familiarize yourself with the recordings/lecture slides and the learning assignment *before* each Teacher's reception!
- No examination

Learning assignments

- Learning assignments (LA) consist of both computational problems (exercises) and short writings (essays) on a given topic, based on task-specific learning material/instructions.
- Learning assignments are returned via MyCourses platform by the given deadlines (submission is open by 23:59 on each day of deadline). Deadline extension is possible by permission only. Delayed submission without permission is penalized by reduction of score.
- Maximum score per assignment: 8-12 p (\rightarrow MAX 60 p). Passed (mark 1) = 50 % of the total score (= 30 p).

Assessment criteria

1. The submission is complete by the deadline. The student's contribution is original, and nothing gives a reason to suspect the student of plagiarism.
2. The results are highlighted (e.g., bold, underlined, tabulated etc.) and they are correct.
3. Calculation procedures with assumptions, equations, substitutions (including units) and intermediate results are shown and appropriate. SI units are used consistently.
4. Visualizations of the problem have been done when applicable, using standardized drawing symbols and practices. The system descriptions, graphs, figures, and schematic diagrams indicate that the problem has been understood correctly (i.e., the visualization adds value to the report).
5. The language (either English or Finnish) is good and easy to read. The terminology is correct. Good scientific reporting practices is followed, including references and citations, when applicable. If references are needed, they are listed in a separate reference list. All in all, the reporting should be brief and succinct and its appearance impeccable.

Teacher's reception

- Teacher's reception
 - is realized as a Zoom meeting (On-line workspace)
 - is open on Tuesdays at **12:30** – 15.00* (see: Timetable)
 - is an opportunity to get tips for the learning assignments
 - is not a lecture or a mandatory activity to pass the course
- Link to the Zoom meeting is in MyCourses:
Passcode: 937671

* Teacher's receptions are open as long as needed. However, they will close no later than at 15.00.

Date	Activity
19.4.	Teacher's reception 1, Introduction + LA1 Release
26.4.	Teacher's reception 2, LA2 Release + LA1 Deadline
3.5.	Teacher's reception 3, LA3 Release + LA2 Deadline
10.5.	Teacher's reception 4, LA4 Release + LA3 Deadline
17.5.	Teacher's reception 5, LA5 Release + LA4 Deadline
24.5.	Teacher's reception 6, LA6 Release + LA5 Deadline
31.5.	LA6 Deadline

- Course platform and info: MyCourses portal (mycourses.aalto.fi) → Remember to enroll!
- Summary of the course material:
 - Lecture slides referred to / shared via MyCourses
 - Assignment-specific material / shared via MyCourses
 - Scientific databases (e.g. ScienceDirect)
 - Any other material (e.g. manufacturers' data sheets, documents found through Internet search)