L12: Summary and Discussions

Department of Civil Engineering
School of Engineering
Aalto University

Syllabus

Week 44 2.11 Stress and Strain 3.11 Exercise 1 4.11 Axial load 5.11 Exercise 2 Week 45 9.11 Torsion 10.11 Exercise 3 Mid-term report questions available 11.11 Bending 12.11 Exercise 4 Week 46 16.11 Shear and combined loading 17.11 Exercise 5 18.11 Geometric Section Properties 19.11 Exercise 6

Week 47

- 23.11 Analysis and Design of Beams
- 24.11 Exercise 7 Mid-term report deadline
- 25.11 Plane-Stress Transformation & Mohr's Circle
- 26.11 Exercise 8

Week 48

- 30.11 Deflection of Beams
 - 1.11 Exercise 9
 - 2.11 Statically Indeterminate Beams
 - 3.11 Exercise 10

Week 49

- 7.12 Buckling
- **8.12 Exercise 11**
- 9.12 Summary and discussions
- 10.12 Q & A

Syllabus

• Assessment: homework (weekly assignment), mid-term report, and final exam.

Weekly assignment: 25%; Mid-term report: 25%; Final exam: 50%;

Bonus points: (5%) for attendance (both lectures and exercises, you will lose one point for each absence). Minimum point is 0.

Final grade=weekly assignment (25%) + mid-term report (25%) + final exam (50%) + bonus point (5%)

Final Exam

- 1. Closed-book exam. Remote exam, as an assignment at MyCourses.
- 2. Feel free to use calculator.
- 3. Time: 17:30-20:45, Thursday, December 16, 2020. 180 mins for the test in the original plan, and 15 mins reserved for submission.
- 4. Around 5 questions in total.
- 5. Contents: all contents covered in this course.
- 6. 50% of final grade.
- 7. Questions during exam: you may ask through Zoom chat.
- 8. If you cannot submit through MyCourses, please submit by email to rui.hao@aalto.fi and weiwei.lin@aalto.fi, before the deadline.

2nd Exam 25.01.22 Tuesday 16.30-19.30

Please contact the teacher in charge for further instructions.

Notes:

- \square If you participate in the 2^{nd} exam, you need to make a registration.
- \Box If you participate in the 2nd exam, contact the teacher for further instructions.

Course Feedback

Please participate and provide us with course feedback. Thanks!