EEN-E3002 – COURSE REQUIREMENTS & EVALUATION

Instructors: Mika Järvinen (Responsible teacher), Ossi Kaario, Matthias Re, Judit Nyári, Dingyi Jiang, Qiang Cheng (Johnny)

Status of the Course: M.Sc. and Doctoral studies (level), Energy Technology, Advanced course.

Student Workload:

Learning activity	Hours according to schedule	Total workload (hours)	Remarks
Activated lectures	4×1.5	6	
Additional reading materials		10	Preparing for the lectures
Learning Exercises within exercise session	2×4×1.5	12	6 hours learning exercises and 6 consultation sessions
Learning Exercises self-study		20	5 additional hours per assignment (total 4 assignments)
Project work consultations (contact teaching)	3×1	3	Includes advisor consultation sessions + presentations.
Project work group work		40	Student group work
Presentations	2×1.5	3	Pitch and final presentations
Report writing and presentation		20	
Self-studying and reflection		21	
In total		**135**	5 cr (27 each)

Grade Assessment: The grade for this course will be based on the amount of achieved points. You can achieve a maximum of 100 points and the points will be distributed as follows:

Period IV

1. **Presence in lectures:** There are four lectures scheduled. No points for presence but highly recommended.

2. **Learning exercise:** There are four learning exercises; two for learning to use the Aspen Plus software and two for the GT-power software. You will have one week after each exercise to submit **a solution via MyCourses, the four submissions** will contribute **50% to your grade (12.5 points each)**. An additional consultation session with the instructors is scheduled in the same week the specific learning exercise is given.

Period V

Each student must join a group of 3-5 members and perform a simulation project on Aspen Plus® or GT power software. More instructions on the project tasks will be shared before the end of period IV. The project work grade accounts for **50% of the grade.**