

EE-463 STATIC POWER CONVERSION-I

(aka Power Electronics-I)

Ozan Keysan

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About the Course

- Tuesday: 14:40-16:30 EA-207

- Thursday: 13:40-14:30 EA-207

Office Hours: Monday 16:40-17:30

About the Course

Announcements, Handouts: [ODTUClass](#)

Presentations: keysan.me/ee463.

Project Assignments: github.com/odtu/ee463.

Grading:

- 1 Midterm: 15%
- Laboratory: 20%
- Homeworks: 20%
- Final: 25%
- Participation: 5% (quizzes, active participation, attendance)
- Hardware Project: %15

Course Assistant

Furkan Karakaya

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Textbooks & References:

- Power Electronics: Converters, Applications, and Design, N. Mohan, T. Undeland, W. Robbins, Wiley (Available in the bookstore)
- Power Electronics, Daniel W. Hart, Mc Graw Hill

Simulation Projects

- Will be performed in pairs
- Your partners will be assigned randomly at each assignment
- Will be submitted using [Github](#)
- No late submissions!
- You will learn [Simulink](#) (or any other power electronics software you want)

Midterm

- Only one midterm (probably at the 8th week)
- Closed book
- One page cheat-sheet allowed (same for everyone)

Hardware Project

- Will be announced in a few weeks
- You will choose your partners (3 students per group)
- You will implement a controllable AC/DC converter
- Bonus points for extra efforts

Laboratory

- Lab sessions will be announced this week
- 5 lab sessions, 3-4 hours each

Your First Week Assignments

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Get familiar with these simulation software before the first assignment

Questions?

You can download this presentation from:
keysan.me/ee463.