Electrical Engineering

Electrical Engineering is a broad multi-disciplinary doctoral programme providing graduates with the ability to work in a variety of fields ranging from traditional electrical engineering and energy sector to biomedical engineering and robotics and nanotechnology and further to communications engineering. Based on a strong mathematical and natural science basis, the curriculum is flexible, allowing each doctoral candidate to compile her/his own combination of courses and research according to her/his own interests. The programme covers all disciplines of the School of Electrical Engineering and allows multi-disciplinary co-operation across Aalto University.

The Aalto Doctoral Programme in Electrical Engineering was established on 1 January 2011. It comprises 13 fields of research. The Programme is a joint effort of the Departments of Electronics and Nanoengineering (ELE), Signal Processing and Acoustics (SPA), Electrical Engineering and Automation (EEA), and Communications and Networking (TLV), as well as the Metsähovi Radio Observatory and Micronova - the Research Centre for Micro- and Nanotechnology.

The degree

The Doctor of Science (Tech) degree is 40 ECTS credits of theoretical studies and dissertation thesis which means four years of full-time studies. The Licentiate of Science (Tech) degree is 40 ECTS credits of theoretical studies and licentiate thesis which means two years of full-time studies. The extent of the licentiate and doctoral degrees consist of theoretical studies and research work. The emphasis is on research work. See more detailed description of the degree.

Research fields in Doctoral Programme in Electrical Engineering

The research field is chosen when applying to the programme. Descriptions of the research field can be found at Degree structure and coursework page.

- Acoustics and Speech Technology
- Automation and Control Engineering
- Biosensing and Bioelectronics
- Communications Engineering and Networking Technology
- Electrical Power and Energy Engineering
- Electronic and Digital Systems
- Electronics
- Interactive Systems
- Photonics and Nanotechnology
- Radio Science and Engineering
- Robotics and Autonomous Systems
- Signal Processing and Data Analytics
- Space Science and Technology

News

Impact the future of Europe - apply by 4 Dec to participate in the European Student Assembly
7 hours ago

11 hours ago
13 000 euroa opiskelijoiden hyvinvointiin – äänestä parasta ideaa viim. 30.11. | 13 000 euro till studerandes välbefinnande – rösta på den bästa idén senast 30.11 | 13 000 euros to students' wellbeing – vote for the best idea no later than 30.11.

21.11.2022

Kampusravintolat vuoden vaihteessa 2022 | Campus restaurangerna vid årsskiftet 2022 | Campus restaurants during the holiday season 2022

21.11.2022

Virheviesti Aalto-käyttäjätunnukseen liittyvän sähköpostiosoitteen vaihtumisesta | Error message on email account address change – no need to react

16.11.2022

Theses and Tomatoes goes Academic Writing Tips 28.11.

14.11.2022

Kampuskyselyn vastausaikaa pidennetty – vastaa, vaikuta ja voita | Svara på campusenkäten, påverka och vinn | Campus survey response time extended – answer, make a difference and win

09.11.2022

13 000 euroa opiskelijoiden hyvinvointiin – äänestä parasta ideaa | 13 000 euro till de studerandes välbefinnande – rösta på den bästa idén | 13 000 euros to the students' wellbeing – vote for the best idea

08.11.2022


08.11.2022

Intossa käyttökatto ke 2.11. klo 16.30 | Serviceavbrott i Into onsdag 2.11 kl 16.30 | Maintenance break on Into on Wed 2.11. at 4.30 pm

02.11.2022

RSS

Lisää uutisia - Mera nyheter - More news