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

Alfred Kordelinin säätiön päähaku 2022
16.06.2022

IT-oikeuden yhdistys ry:n stipendi 2022
16.06.2022

Avoin suunnittelukilpailu opiskelijoille – Open design competition for students – Öppen designtävling för studerande
14.06.2022

Short breaks in Aalto networks on 20 and 22 June 2022 | Lyhyitä katkoja Aallon verkoissa 20.6.2022 ja 22.6.2022
15.06.2022

Into saatavilla 3.–6. vain Aalto-verkon kautta | Into bara tillgängligt via Aaltos interna nät 3.–6. I Into only available through Aalto’s internal network from 3 to 6 June
07.06.2022
Hyvinvointi-piknik 9.6.2022 klo 15-17 | Wellbeing Picnic June 9th at 3 PM

01.06.2022

Aalto ENG: Kesäkirje opiskelijoille on tutustuttavissa I Ett sommerbrev för studerande
finss tillgängligt I The summerletter for students is available

01.06.2022

Laatuauditointia varten tehty itsearviointiraportti luonnosvaiheessa – tutustu ja
kommentoi | Utkast till självvärderingsrapport för kvalitetsauditeringen – läs och
kommentera | First draft of quality audit self-evaluation report ready – read and
comment

01.06.2022

Viking Olov Björk’s scholarship in applied biomaterial research 2022

25.05.2022

Hilkka ja Otto Brusiinin säätöön apurahat 2022

25.05.2022