Courses offered

| Search for courses | Courses at Aalto  
|                   | Courses as ELEC  
|                   | Courses by Nordic Five Tech |

| New doctoral students | Aalto Orientation Days  
| All doctoral students  | Entrepreneurship and business skills  
|                        | Help during your doctoral studies  
|                        | Information security and data protection  
|                        | Leadership  
|                        | Open science  
|                        | Pedagogical studies  
|                        | Project management |

Courses and lectures

- Courses at Aalto University - MyCourses (all courses) and School of Electrical Engineering courses in MyCourses
- Search for current courses - the Aalto University course catalogue
- Summer schools, courses and researcher meeting organized by the doctoral education networks

Courses for School of Electrical Engineering by departments at MyCourses

- Communications and Networking  
- Electrical Engineering and Automation  
- Electronics and Nanoengineering  
- Signal Processing and Acoustics  
- Metsähovi Radio Observatory  
- Common courses for the school (ELEC)

See also the study cooperation agreement of Photonics and Nanotechnology and Radio Science and Engineering (quantum technology) with University of Helsinki.

Courses offered by The Nordic Five Tech (N5T)

Courses offered in the joint data base by Chalmers University of Technology, Technical University of Denmark (DTU), Royal Institute of Technology (KTH), Norwegian University of Science and Technology (NTNU) are free of charge for doctoral students of Aalto. For more information on this collaboration: Studies in international university networks#NordicFiveTechandPhD-studies. To search for courses in the data base: https://phdcourses.nordicfivetech.org/.

Doctoral Orientation Days

- Joint orientation for all new Aalto doctoral candidates  
- Organized in September, January and June, next time 1-2.6.2022.  
- Aalonhuippu, the student association for doctoral candidates at Aalto University
Introduction to Doctoral Studies ELEC-L0902

- This course is highly recommended for all doctoral candidates of ELEC
- Organized next time 20.1-7.4.2022

Research Ethics for doctoral candidates

- Open Learning course on research ethics: https://findocnet.fi/course/view.php?id=137. To access this course, you need a password which you can obtain from the university's doctoral education services staff (udes@aalto.fi).
- A online course including two compulsory workshops for doctoral candidates at Aalto University. Recommended for first or second year doctoral candidates, 2 credits.

The course is organized two times during the academic year 2021-2022, 4-29.10.2021 (workshops on 11.10 at 14-18 and 18.10 at 14-18) and 7.3-4.4.2022 (workshops on 10.3 at 14-18 and 17.3 at 14-18).

Schedule

The course is organized two times a year, once in the autumn term and once in the spring term.

Level

Doctoral studies, recommended for first or second year of study. The course is 2 ECTS and comprises of 54 hours of study.

Learning outcomes

At the completion of this course a doctoral candidate is able to:

1. recognise and analyse key research ethical questions
2. formulate ethical research plans and responses to ethical challenges by applying key ethical theories and approaches
3. recognise and understand key ethical principles guiding research and how they apply to research work
4. understand the Finnish Responsible Conduct of Research guidelines, processes for dealing with research misconduct, and processes for applying research license or ethical review
5. identify rights and responsibilities as a researcher
6. understand how ethical decisions and choices influence society and research community

Mode of study

- The course will be taught online in Moodle. You will receive the enrolment key form the course coordinator after your enrolment to the course has been confirmed.
- All course correspondence will be sent to your Aalto email, so please check your email at the start of the course for more details on assessment tasks and course content.
- The course language is English. However, on the Moodle site materials are available also in Finnish and most assessment tasks can be completed either in English or in Finnish.
- Most of the course is self-directed and allows for great flexibility with when and where it is done. However, assessments have strict deadlines.
- Please note: attendance at two workshops is compulsory

Evaluation criteria

Pass/Fail

The course completion requires:

- active engagement with the course material,
- completing compulsory assessment tasks detailed above

The course evaluation is based on adequately achieving learning outcomes as evidenced in the assessment tasks.

Lecturer

Dr. Henriikka Mustajoki

Open Science

- Open learning course on Open science: https://findocnet.fi/course/index.php?categoryid=47. To access this course, you need a password which you can obtain from the university's doctoral education services staff (udes@aalto.fi).

Scientific writing and communication
Courses for doctoral candidates offered by the Language Centre
- Courses in Research writing, presentation skills (in English) / more info: susan.gamache@aalto.fi
  - LC-1330 Presenting Doctoral Research – A practical course in preparing for an upcoming conference or seminar presentation
  - LC-1335 Preparing for the Doctoral Defence - Support for presenting and defending your research
  - LC-1336 Popularize your Research - Communicating your research to popular audiences in spoken and/or written form
- Courses in Communication (in English) / more info: rinna.toikka@aalto.fi
  - LC-0550 Communication Skills – Presentations and speeches, group communication and much more
  - LC-0320 Public speaking skills – Public speaking is interaction!
  - LC-0520 Impact and argumentation – Debates, argumentation and positive atmosphere
- LC-0510 Conference Presentations – A short and practical presentation skills course
- Courses in Intercultural Communication (in English) / more info: yoonjoo.cho@aalto.fi
  - LC-0610 Intercultural Communication - Conceptualising culture, intercultural stereotyping, nonverbal communication and more!
  - LC-0611 Teamwork and Leadership in the 21st Century - Leadership and culture, discursive leadership, team leadership and leadership ethics
  - LC-0613 Developing Intercultural Competence - Theoretical understanding and practical application of intercultural competence
- Courses in Finnish - Kursseja suomeksi / lisätiedot: rinna.toikka@aalto.fi
  - LC-0320 Esiintymistaito – Esiintymisen osaaminen vuorovaikutustiluksessa
  - LC-0520 Vaikuttaminen ja argumentointi – Väättelyä ja kiivaita keskusteluja hyvää hengessä
  - LC-0340 Työelämän vuorovaikutusosaaminen – Ryhmät, tiimit, yhteisöt…. konfliktit ja yhteistyö
  - LC-0330 Johtamisviestintä – Millaista vuorovaikutusta johtamina on ja millaista osaamista tarvitaan?
- LC-0224 Neuvottelutaito – Neuvottelu on vuorovaikutusta!
- LC-0510 Konferenssiesiintyminen – Täsmäkurssi esitelmän harjoittelun
- Erityiskursseja tohtoriopiskelijoille/ Lisätiedot Sonja.kniivila@aalto.fi
  - LC-L1017 – Asiantuntijaesittämiseen syvällistä tietoa ja taitoa rakentavassa ilmapiirissä”
  - LC-L1018 – Tutkimusraportoinnin tekstireturiitit jotakset-oksikkeille ”Yhteislisäävästö ryökkentelystä voimaa vähäöskirjan tekoon”
- Services for doctoral students
  - writing clinic – book a free session and get individual tutoring to help you improve as a writer when writing a dissertation or a journal article in English / more info: anya.siddiq@aalto.fi
  - speech clinic - book a session and practice presentations, speeches, lectures… available in Finnish and in English / more info: rinna.toikka@aalto.fi

Pedagogical studies
- Pedagogical training in Aalto (requires Aalto password).
- Take a look at https://unips.fi/ It is a digital learning solution for university teachers and doctoral candidates to study university pedagogy. The pages contain e.g. modules for self-study on all kinds of topics related to teaching.

Project management
- Aalto Project Management for Doctoral Students D, LC-L1015 (1ECTS): https://findocnet.fi/enrol/index.php?id=154. To access this course, you need a password which you can obtain from the university’s doctoral education services staff (udes@aalto.fi)

Entrepreneurship and business skills
- Aalto Ventures Program (AVP) offers courses in entrepreneurship. Doctoral candidates are welcome to join the courses.
- Entrepreneurship and startups
Aalto Business Skills for Doctoral Students D, LC-L1012 (1ECTS). To access this course, you need a password which you can obtain from the university's doctoral education services staff (udes@aalto.fi).

Career planning and competence development

- HR offers support for career planning and competence development through workshops and other events (requires Aalto login)
- Aalto Career Course for Doctoral Students D, LC-L1013 (1ects). To access this course, you need a password which you can obtain from the university's doctoral education services staff (udes@aalto.fi).

Information security and data protection training

- Online training on Information Security and Data Protection

Writing the doctoral thesis

Theses and Tomatoes

Are you feeling stuck with your thesis? Or are you just finding it hard to get into a routine with working on your thesis? Maybe you are unsure of what the next step should be or how to get started on a new chapter? Do you feel lonely in your thesis work? Would you like to work in a shared space with others in the same situation? There is no enrolment needed, just join us and get your thesis moving. The event is intended for doctoral students (although other academic staff is also welcomed) at Aalto University.

More information and the zoom-link here: https://into.aalto.fi/display/enopisk/Courses+and+workshops+for+students

Leadership

- Aalto Interactive Leadership Skills for Doctoral Students D, LC-L1014 (1ects): https://findocnet.fi/enrol/index.php?id=153. To access this course, you need a password which you can obtain from the university's doctoral education services staff (udes@aalto.fi).

Writing grant applications

- Aalto Writing Research Grant Applications for Doctoral Students D, LC-L1016 (1ects). To access this course, you need a password which you can obtain from the university's doctoral education services staff (udes@aalto.fi).

Help during your doctoral studies

PhD Pathfinder - Guiding you on your PhD journey (mariatörnroos.fi)

Audio podcasts can be found also from aalto.fi with the search words "maria törnroos"