

For a Doctoral Degree

Students admitted to the doctoral program through interviews begin to conduct in-depth research in one of the fundamental Electrical Engineering or interdisciplinary research topics essential for scientific and technological innovation, after completing a 21-credit coursework and successfully passing the qualification exam. At the end of the research period, if the results are deemed sufficient for a doctoral degree, the student writes and submits their doctoral thesis. Students who pass the doctoral examination receive the title of Doctor (PhD). Currently, 62 doctoral students are continuing their education and research activities in the Electrical Engineering Department's Doctoral Program.

The aim of the doctoral program is to equip the student with the ability to conduct independent research, to analyze and interpret scientific phenomena with a broad and deep perspective, and to determine the necessary steps to achieve new syntheses. The thesis prepared at the end of the doctoral studies should fulfill one of the following qualities:

- Bring innovation to science,
- Develop a new scientific method,
- Apply a known method to a new field.

The doctoral program consists of at least 7 courses totaling no less than 21 credits, a qualifying examination, a thesis proposal, and thesis work for students with a master's degree. For students admitted with a bachelor's degree, it consists of 14 courses totaling no less than 42 credits, a qualifying examination, a thesis proposal, and thesis work.

The maximum duration to successfully complete the required credit courses for the doctoral program is 2 years for those admitted with a master's degree, and 3 years for those admitted with a bachelor's degree.

The maximum completion time for the doctoral program with all student rights is six years (12 semesters) for those admitted with a master's degree, and nine years (18 semesters) for those admitted with a bachelor's degree.

The purpose of the qualifying examination is to assess whether the student has sufficient knowledge in the fundamental subjects of their program and in topics related to their thesis. Qualifying exams are held twice a year at the end of the fall and spring semesters. Every student who has completed their credits and has a minimum cumulative GPA of 3.00 must take the qualifying exam with the advisor's approval at the latest in the following semester. Failure to take the exam is considered unsuccessful.

A student who successfully completes the doctoral qualifying exam submits a thesis proposal, covering the purpose, method, and work plan of their intended research, to the institute and the thesis monitoring committee within six months at the latest, and defends it orally before the committee within the following twenty days.

A student whose thesis proposal is accepted submits a written report on the progress of their thesis work to the institute twice a year and defends it before the thesis monitoring committee within twenty-one days following the report.