

Ph.D. Program in Seismology, Earth and Environmental Sciences

Total credits required for graduation

- 19 for students with a master's degree
- Direct admission to the doctoral program: 34 for master's students and 42 for undergraduate students.

Required Courses (4 credits)

Seminar (I) (II) (III) (IV) (1 credit for each course)

Elective Courses

- 15 credits for students with a master's degree.
- Direct admission to the doctoral program: 30 credits for master's students and 38 for undergraduate students.
- Students can take courses (Open for Ph.D students or both Graduate and Ph.D students) offered by the M.S. program or the Ph.D. program of the Institute of Seismology, Earth and Environmental Sciences.
- Students can take courses offered other than the Institute of Seismology, Earth and Environmental Sciences, but only from the College of Science or the College of Engineering. Before registering for these courses, students must fill out a consent form and have it signed by their advisor to be acknowledged as graduation credits.

Requirements for graduation

- Students shall complete the Academic Research Ethics Education

Program and get the certificate before applying for the degree examination.

- The Ph.D. candidate must pass the Ph.D. qualifying examination before the degree examination. (Please read “Main points for the implementation of the EES Ph.D. candidate qualifying examination” for further information)
- The qualifying examination includes **written and oral exams**. The method, subject, scope, topic, score, and passing of the qualifying examination shall be determined by the Ph.D. Steering Committee based on the courses the student has taken and the contents of the Ph.D. dissertation. Students must pass the written examination before taking the oral examination. After passing the oral examination, a Ph.D. student is promoted to the Ph.D. candidate.
- Before applying for the Ph.D. degree examination, Ph.D. candidates must meet the following requirements :
 - (I) Get the required and elective graduation credits. No credits for the Ph.D. dissertation.
 - (II) Publish at least one international conference paper as the first author. This main language of the conference must be in English.
 - (III) Publish, or acquire letters of acceptance, at least two first-author SCI papers.
- The Ph.D. degree can be granted only after fulfilling all the above

requirements and passing the degree examination.

- All Ph.D. students are required to submit the “Thesis/Dissertation Title Inspection Form” before the end of the second semester after enrollment. The department head will confirm the appropriateness of the title with the student’s expertise. If any doubt is raised, the student will be advised to change the title or transfer to another institute with research areas related to the proposed title.