

National Taiwan University
Institute of Applied Mechanics
Academic Regulations for Doctoral Students

Amended and approved by the Institute Affairs Meeting, March 5, 2010.

Amended and approved by the Institute Affairs Meeting, December 20, 2013.

Amended and approved by the Institute Affairs Meeting, October 3, 2014.

Amended and approved by the Institute Affairs Meeting, May 8, 2015.

Amended and approved by the Institute Affairs Meeting, January 12, 2024.

Amended and approved by the Institute Affairs Meeting, April 12, 2024.

Amended and approved by the Institute Affairs Meeting, April 11, 2025.

1. General Provisions

Institute of Applied Mechanics shall regulate student status and other related matters; therefore, hereby formulates the Academic Regulations for Doctoral Students in accordance with NATIONAL TAIWAN UNIVERSITY Academic Regulations, Article 2 of the NATIONAL TAIWAN UNIVERSITY Rules Governing Thesis/Dissertation Defense and Article 8 of the NATIONAL TAIWAN UNIVERSITY Directives Governing Implementation of Ph.D. Candidate Qualifying Examination.

2. Academic Supervision

Doctoral students must make arrangements with a faculty member of the Institute to serve as their supervisor for the research program within the first year upon enrollment.

3. Course Requirements

- 3.1 Doctoral students must complete 18 credits and 4 seminar credits before graduation, not including those gained from dissertation, waived undergraduate/master's courses and retaken courses (which are counted only once). If doctoral students participate in study-abroad programs for more than 6 months, 1 seminar credit may be waived per 6 month abroad upon approval by the Director of the Institute. A maximum of 2 credits may be waived.
- 3.2 Doctoral Students must complete two required courses, Experiments on Electronics and Experiments on Applied Mechanics (II).
- 3.3 Doctoral Students may apply for waiving the required courses if they fulfill one of the following requirements:

- (1) Having passed the course offered by the Institute with a grade above B minus.
- (2) Having taken an equivalent course of the same subject from another source, and passed the midterm and final exam of that core course in the Institute.

4. Doctoral Candidate Qualification Examination

- 4.1 An oral examination is given to the Doctoral student to assess his qualification. The examination committee is organized by 3-5 faculty members selected by the Academic Committee of the Institute from those with specialties in the related fields of research.
- 4.2 Examinations are given within four weeks after the date of end of classes announced on the school academic calendar.
- 4.3 Students who do not pass the examination on the first try may retake the exam. Failure to pass the retake will result in expulsion.
- 4.4 If the students have taken 2 of the following 5 courses and passed both with a grade A⁻ or above, they are deemed as passing the qualification examination: (1) Elasticity (I), (2) Fundamental of Fluid Dynamics, (3) Dynamics, (4) Electromagnetism, (5) Applied Mathematics (I).
- 4.5 Students must pass the qualification examination within 4 semesters (excluding the Leave of Absence). Failure to complete this requirement will result in expulsion.

5. Research and Publication

Students must gain at least 3 publish credits by publishing their research papers in international journals before graduation. The student should be listed as the first author or, in the event that the dissertation supervisor is listed as the first author, listed as the next author after the supervisor. After attaining the required publish credits, the student can make arrangement for their dissertation oral defense. All research work should be completed during doctoral studies.

The publish credits are defined by the Science Citation Index (SCI) impact factor (IF) ranking in the related field averaged for the past 5 years. The journal without the 5-year IF could be calculated using the average of recent years' IF ranking (the calculation refers to the metrics of Journal Citation Reports).

- 5.1 The ranking average between 1% to 25% is 3 credits.
- 5.2 The ranking average between 26% to 50% is 2 credits.
- 5.3 The ranking average between 51% to 90% is 1 credit.

6. Presentation

Students must make a dissertation presentation arranged by the Institute before graduation.

7. Supplement

Upon approval by the Institute Affairs Meeting and submitting to the Office of Academic Affairs for reference, this amended academic regulation was enforced after announcement.