

National Taipei University of Technology

Graduate Institute of Manufacturing Technology

Graduation Guidelines for Ph.D. Degree Students

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Article I. Ph.D. students in Graduate Institute of Manufacturing Technology (GIMT) can choose to follow *academic orientation* or *technical orientation*. It is allowed to exchange between *academic orientation* and *technical orientation*. Changing orientation requires approval by GIMT executive meeting. Change takes effect one semester after approval. Ph.D. orientation can only be changed once.

Article II. Course credit regulations:

1. Required courses for Ph.D. students in GIMT include *Technical English Writing*, *Technical English Presentation*, *Doctoral Dissertation*, and *Special Topics on Practice R&D* (Ph.D. Seminar). At least 4 credits of Ph.D. seminar must be taken.
2. Ph.D. students can take *Doctoral Dissertation* credits only after passing Ph.D. qualification exams.
3. Ph.D. students must take at least 18 credits of major elective credits. Inter-department (or inter-university) elective credits require academic advisor's approval. Maximum of inter-department credits allowed is 9 credits. Credits from evening school are also considered as inter-department credits.
4. *Technical orientation* Ph.D. students must take at least 1 management-related graduate level course at the College of Management. The intended course requires academic advisor's approval. Course from the College of Management will be considered as credits from GIMT. In case the *technical orientation* Ph.D. student applies exchange to *academic orientation*, the course taken from the College of Management will then be considered as inter-department credits.
5. *Technical orientation* Ph.D. students must engage in a full-time practical R&D position at a company, government agency or other organization of similar scope related to GIMT for at least 2 years. The company, government agency or organization must be first reviewed and agreed upon by GIMT academic committee. Change of organization is possible via separate application process.
6. In the time during the full-time practical R&D position, *technical orientation* Ph.D. students must take a total of 4 credits of "*Internship of practical technology*

research and development". When taking "*Internship of practical technology research and development*", no other courses besides "*Doctoral Dissertation*" can be taken at the same time.

7. Students require academic advisor's approval to take courses. Students who do not have an academic advisor require approval from dean of GIMT.

Article III. English proficiency graduation requirements

Ph.D. students enrolled during and after academic year 2019 must adhere to "Regulations regarding English proficiency graduation requirements for full time graduate students at Taipei Tech" . For students who attend English proficiency tests and did not achieve passing grade, can choose one of the following additional solutions; after which successfully achieving passing grade, will be considered as passing the English proficiency graduation requirement.

1. Exchange one SCI published article for English proficiency requirement. However, this exchanged SCI publication cannot be counted for Ph.D. dissertation point count. This SCI publication must comply with the following conditions:
 - (1) The publication indicates Graduate Institute of Manufacturing Technology as the publishing organization.
 - (2) Excluding academic advisor, applicant is the first author of publication.
 - (3) Publication was accepted or published after applicant enrolled in GIMT.
2. Publications presented in English language at an international conference. Also provide copy of conference proceedings, pictures of conference venue and actual presentation (picture should include applicant, conference or session chairs, audience), and academic advisor as proof of attendance.
3. Applicant can exchange English proficiency graduation requirement by attending and successfully passing any of the English-taught specialized courses available at any graduate institute of the College of Mechanical and Electrical Engineering, Taipei Tech. Additionally, the obtained credits can also count as graduation credits.

Article IV. Academic Advisor

1. Students must choose an academic advisor within 2 semesters after enrolling in GIMT.
2. Students can exchange academic advisor only once. Application for oral defense must occur at least 2 years after changing advisor. In case students need to exchange advisor more than once due to any special conditions, case must be first reviewed and approved by GIMT administrative committee.
3. Courses chosen for qualification exams require academic advisor's approval. Students who do not have an academic advisor cannot apply for qualification

exams.

Article V. Qualification Exam

All Ph.D. students enrolled in GIMT must attend qualification exams. Qualification exams are in written test form. Students who wish to participate must apply during the stipulated times each semester. Students who do not meet qualification exam requirements will be expelled from the university. Qualification exam guidelines are detailed separately.

Article VI. Approval of Ph.D. Candidate Qualifications

After fulfilling credit requirements and successfully passing qualification exams, Ph.D. students can apply for approval of Ph.D. candidate qualifications. Academic degree review committee shall review conformity of course content to expected professional demands. It is possible students are required to additionally take 1 to 3 courses in order to obtain Ph.D. candidate qualification.

Article VII. Academic degree review committee is composed of Ph.D. student's academic advisor, and at least 2 other professors with assistant professor position or above.

Article VIII. Point Count Review for Doctoral Dissertation Exam

All published works (including patents) will be considered under review for graduation conditions. Point count guidelines for published journal papers are detailed separately.

Article IX. Time Limitations

The time required to obtain Ph.D. degree is at least 2 years and at most 7 years.

Article X. Qualifications and Approval of Doctoral Dissertation Exam

Only Ph.D. students who have successfully completed the point count and obtained written approval from academic advisor can apply for and arrange the doctoral dissertation exam.

Article XI. Doctoral Dissertation Exam (Oral Defense)

The doctoral dissertation exam will be held according to the relevant university regulations. Students who do not pass the exam must defend again. Students who pass the doctoral dissertation exam can graduate.

Article XII. For any unsettled affairs in these guidelines, civil laws and university regulations will be followed.

Article XIII. These guidelines shall go into effect upon approval by the Administrative Council at Executive Meetings. The procedure is the same for any revision or amendment.

Note: In case of discrepancy between the English and Chinese versions, the Chinese version shall prevail.

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