

國立台灣大學工業工程學研究所

全球學程博士學位授予規定及考核辦法

Degree Requirements and Qualification of the Global PhD Program at the Institute of Industrial Engineering, National Taiwan University

(本所 106.3.10 學術委員會會議修訂通過，106.3.14 所務會議核備)

(本校 106.6.9 教務會議通過)

(本所 107.6.15 所務會談修訂通過，107.6.22 所務會議通過，107.10.19 教務會議通過)

(本所 109.12.14 所務會議修訂通過)

(本所 110.12.21 所務會議修訂通過)

第一條 工業工程所全球學程（以下簡稱本學程）博士學位授予及考核，除依據本校「國立臺灣大學研究所博士暨碩士學位考試規則」及「國立臺灣大學博士學位候選人資格考核實施要點」外，悉依本辦法辦理。Besides university regulations, the global PhD program of the Institute of Industrial Engineering (IIE, NTU) should follow the degree requirements stipulated below.

第二條 本學程博士學位申請人限陸、港、澳、僑、外籍生。(This program is offered to international students. Domestic students are not eligible.)

第三條 Each doctoral student should select a willing dissertation advisor within four registered semesters. After passing all qualifying exams, a dissertation proposal evaluation committee of three to five qualified committee members as ruled by Regulations Governing Thesis/Dissertation Defense should be formed by the advisor. The oral exam of the dissertation should take place no earlier than the next semester after the semester in which the proposal is approved by the committee.

第四條 Degree requirements of the global PhD program
The global PhD program has two tracks of study: Industrial and Service Systems Engineering (ISSE) and Technology Management and Engineering Applications (TMEA). Besides the requirements stipulated by National Taiwan University, this program has the following requirements for the PhD degree:

1. Successful completion of eighteen (18) credits of course work for students with a M.S. degree in IE-related fields. Otherwise, thirty (30) credits are required. At least 12 credits should be earned on courses offered by IIE. All those credits should exclude credits on Special Project for Doctor Degrees Student, Graduate Seminars and Dissertation.
2. Successful completion of a 6-hour course offered by “the Center for Taiwan Academic Research Ethnic Education” or an equivalent course within the first registered year.
3. All doctoral students should pass qualifying exams within four registered semesters. Failing this requirement, the student should be expelled from this program and university. The exams have two parts. In the first part,

all doctoral students should pass a qualifying exam on Statistical Methods. In the second part, the exam subjects differ by track of study. Students in ISSE should pass the two subjects of (a) Introduction to Optimization and (b) Stochastic Processes. Students in TMEA should pass two elected subjects in the list of (a) Fundamentals of supply chain management, (b) Game Theory with Applications, (c) Industrial Risk Assessment and Management, and (d) Patent Engineering.

4. For the second part of the qualifying exams, an exam can be waived by petition if the student has received a grade of A- or better in a linked course within the last 5 years.
5. Presentation of dissertation works in an international conference sponsored by the Asia Pacific Industrial Engineering and Management Society (APIEMS), the Institute for Operations Research and the Management Sciences (INFORMS), the Institute of Industrial and Systems Engineers, or the Institute of Electrical and Electronics Engineers (IEEE).
6. Completion of two papers as the first, second or corresponding author, in the top 50% rank (by 5-year impact factor) of SCI or SSCI journals. One paper should already be accepted for publication and the other should pass the first referee review.

[中文翻譯]

第四條 全球學程的博士學位要求

博士班全球學程分產業與服務系統工程與科技管理與工程應用兩組。除本校相關規定外，本學程博士學位有以下修業規定：

1. 具工業工程相關領域碩士學位者，除博士專題研究、專題討論及博士論文外，須修滿 18 學分課程，否則須修滿 30 學分，其中應修習本所至少十二學分課程。
2. 應依「國立臺灣大學學術倫理課程修課實施要點」，完成學術倫理課程。
3. 博士生註冊四學期內須通過資格考，在期限內未通過資格考應予退學。資格考分兩部分，在第一部分每位博士生需通過「統計方法」科目，第二部分為分組資格考，產業與服務系統工程組需通過 (a) 最佳化概論、(b) 隨機過程兩科，科技管理與工程應用組可在下列科目選考兩科：(a) 供需鏈管理精論、(b) 賽局理論與應用、(c) 產業風險評估與管理、(d) 專利工程。
4. 關於分組資格考科目，博士生若五年內在本所直接相關的課程修課得到 A-或以上成績，可申請抵免。
5. 在 the Asia Pacific Industrial Engineering and Management Society (APIEMS), the Institute for Operations Research and the Management Sciences (INFORMS), the Institute of Industrial and Systems Engineers,

or the Institute of Electrical and Electronics Engineers (IEEE) 等國際學會主辦或經學術委員會認可之國際研討會發表英文論文。

6. 以第一作者、第二作者或通信作者身分完成兩篇期刊論文，該等期刊的 5-year impact factor 須在 SSCI 或 SCI 收錄期刊中排行前 50%。其中一篇須已被接受發表，另一篇須通過第一輪審查。

第五條 本辦法如有未盡事宜，依照本校相關規定處理。

第六條 本辦法經學術委員會會議、所務會議通過報校核備後，自發布日施行。