

**國立臺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

106.03.10 本所學術委員會會議通過

106.03.14 所務會議核備

106.06.09 教務會議通過

107.06.15 所務會談通過

107.06.22 所務會議通過

107.10.19 教務會議通過

109.12.14 所務會議通過

110.12.21 所務會議通過

111.03.23、111.04.26 本所學術委員會通過

111.05.04 所務會議通過

111.12.23 教務會議通過

111.12.30 發布修正第一、二、三、四、五、六條

112年5月9日111學年度第4次學術委員會會議通過訂定

112年6月14日111學年度第3次所務會議核備

112年6月21日發布修正第四條

第一條 國立臺灣大學（下稱本校）工業工程所（下稱本所）全球學程（下稱本學程）依據本校學則第四篇碩、博士班規定、本校研究所博士暨碩士學位考試規則及本校博士學位候選人資格考核實施要點第八點規定，訂定國立臺灣大學工業工程學研究所全球學程博士學位授予及考核辦法（下稱本辦法）。

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生、港澳生、僑生、國際學生。

This program is offered to international students. Domestic students are not eligible.

第三條 本學程博士生應於註冊四學期內依本校學則第六十九條規定選定指導教授，並於資格考試通過後由指導教授召集符合本校博士學位考試委員資格之委員三至五位（含指導教授），組成論文計畫書審查委員會（下稱本委員會）。

本學程博士生之論文計畫書通過本委員會審查與口試後，次學期起始得

提出學位考試申請。

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 本學程博士學位候選人應具備下列各款條件：

- 一、除博士專題研究、專題討論及博士論文外，本學程博士生如具工業工程相關領域碩士學位者，至少應修滿十八學分課程，如未具工業工程相關領域碩士學位者，至少應修滿三十學分課程。
- 二、第一款之學分應至少包括本所十二學分課程。
- 三、本學程博士生應依本校學術倫理課程修課實施要點規定，完成學術倫理課程。
- 四、本學程博士生應於註冊四學期內通過資格考，在期限內未通過資格考者，應予退學。資格考分兩部分，本學程博士生第一部分應通過統計方法科目，第二部分可在下列科目選考二科通過：(a)最佳化概論、(b)隨機過程、(c)動態規劃與應用、(d)非線性規劃、(e)整數與組合最佳化、(f)資料分析方法、(g)線性代數與應用。
- 五、關於第四款第二部分資格考科目，本學程博士生若於入學五年內在本所直接相關的課程修課得到 A-或以上成績者，可申請抵免。
- 六、本學程博士生應在 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本所學術委員會認可之國際研討會發表至少一篇英文論文。
- 七、本學程博士生應以第一作者、第二作者或通信作者身分完成至少二

篇期刊論文，該等期刊的五年影響係數(5-year impact factor)須在 SSCI 或 SCI 收錄期刊中排行前百分之五十。

八、本學程博士生申請學位考試前，關於第七款二篇期刊論文，其中一篇應已被接受發表，另一篇至少應通過第一輪審查。

Degree requirements of the global PhD program

- 4.1 Successful completion of eighteen (18) credits of course work for students with a M.S. degree in IE-related fields is required. Otherwise, thirty (30) credits are required. All those credits should exclude credits on Special Project for Doctor Degrees Student, Graduate Seminar and Doctoral dissertation.
- 4.2 At least 12 credits should be earned on courses offered by IIE.
- 4.3 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 is required.
- 4.4 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, students should pass any two subjects among, (a) Introduction to Optimization, (b) Introduction to Stochastic Modeling, (c) Dynamic Programming, (d) Introduction to Nonlinear Programming, (e) Integer and Combinatorial Optimization, (f) Data Analytics, and (g) Linear Algebra and Its Applications.
- 4.5 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.

- 4.6 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), or conferences approved by the academic committee is required.
- 4.7 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 is required.
- 4.8 For the requirement in 4.7, one paper should already be accepted for publication and the other should pass the first referee review.

第五條 本辦法如有未盡事宜，悉依本校學則、本校研究所博士暨碩士學位考試規則、本校博士學位候選人資格考核實施要點、本校相關規定及相關教育法令辦理之。

第六條 本辦法經本所學術委員會會議、所務會議及教務會議通過後，自發布日施行。