國立虎尾科技大學智慧產業科技研發博士學位學程修業規章

Degree Requirements of the PhD Program in Smart Industry Technology Research and Design of National Formosa University

108 年 10 月 23 日 108 學年度第 1 次院務會議通過
108 年 12 月 24 日 108 學年度第 2 次教務會議通過
109 年 8 月 19 日 109 學年度第 1 次院務會議通過
110 年 4 月 15 日 109 學年度第 4 次院務會議通過
110 年 6 月 25 日 109 學年度第 4 次教務會議通過
110 年 10 月 05 日 110 學年度第 1 次院務會議通過
110 年 10 月 19 日 110 學年度第 1 次教務會議通過
111 年 9 月 15 日 111 學年度第 1 次院務會議通過
111 年 9 月 27 日 111 學年度第 1 次教務會議通過
113 年 5 月 22 日 112 學年度第 4 次院務會議通過
113 年 6 月 04 日 112 學年度第 5 次院務會議通過
113 年 6 月 13 日 112 學年度第 4 次教務會議修正通過

一、本規定依據國立虎尾科技大學學則與博碩士學位考核辦法。

This set of requirements is formulated based on the academic policies and assessment regulations for the master's and doctoral degree of National Formosa University.

二、本學位學程共分四組：甲組為工程群；乙組為電資群；丙組為管理群：丁組為生科、農業、休閒與多媒體群。

The program comprises four groups: Group "A" (Engineering), Group "B" (Electrical Engineering and Computer Science), Group "C" (Management), and Group "D" (Life Science, Agriculture, Sports, Recreation, and Multimedia).

三、研究生指導教授由本校專任助理教授(含)以上教師擔任，研究生須於報到後二個月內繳交指導教授同意書。更換指導教授須經原指導教授、新指導教授及學位學程主任同意，更換以一次為限。更換指導教授後至少需一學年以上，方可申請學位考試。

The dissertation advisor of each graduate student shall be a faculty member of the school who holds a position equal to or higher than a full-time assistant professor, and each graduate student must submit the Advisor Consent Form within two months after registration. Each graduate student's request to change his/her advisor must be approved by the current advisor, the new advisor, and the Director of Program, and each graduate student can only change his/her advisor for only once. After changing his/her advisor, the student can only apply for the degree examination after at least one academic year.

四、研究生修業年限最少二年，最多七年。若申請教育部補助大學校院產學合作培育博士班級研發人才計畫者須符合其修業規定。

The minimum and maximum lengths of study for each graduate student are two years and seven years, respectively. Students applying to the Industry-Academia Cooperative PhD Project are subject

to the degree requirements of the project.

五、課程學分之相關規定 Credit Requirements

(一)研究生須修滿至少十八學分(不包括博士論文、專題研討)，並通過學術研究倫理教育課程。**逕讀博士學位者，須加修原所屬領域或本校開設之博士班選修課程共 12 學分。**

Each graduate student must earn at least 18 credits (apart from the doctoral dissertation and research seminars) and complete the requirements of the education courses in Academic Ethics and Research Integrity. **Student who was given approval to directly enroll in a doctoral program must take 12 credits of elective courses in original field of study or in a doctoral program offered by the University.**

(二)研究生必修博士論文(十二學分)及專題研討(1 學年, 零學分)共十二學分。

Each graduate student must earn 12 credits by completing the doctoral dissertation (12 credits) and the research seminars (one academic years, zero credit).

(三)研究生於通過博士資格考試後始得修習博士論文。

Each graduate student may start working on the doctoral dissertation after passing the PhD qualifying exam.

(四) 研究生選課需經指導教授簽名同意。

Each graduate student's course selection must be approved and signed by his or her advisor.

(五) 研究生得選修本校其所屬組別之**博士班**課程(不得與大學部**、碩士在職專班**合開)作為畢業學分。

Each graduate student may **take PhD elective courses (course cannot be co-offered with undergraduate or in-service master's programs)** offered in his or her group to earn the credits required for graduation.

(六) 研究生得經由指導教授同意後，選修**本校(或他校)博士班課程**(不得與大學部、碩士在職專班合開)，至多 9 學分。

Each graduate student may, with his or her advisor's approval, enroll in a maximum of nine credits of PhD elective courses **(course cannot be co-offered with undergraduate or in-service master's programs)** from **the University (or another university).**

六、研究生均需通過資格考試，資格考試以口試方式舉行，欲申請之研究生需於每學期規定期間內提出申請，未依資格考試辦法規定通過者應予退學，或提高畢業研究成果。博士班資格考試實施要點另訂之。

Each graduate student must pass the qualification exam. Qualification exam is oral examination. Students who wish to participate must submit their applications within the designated period each semester. Students who do not meet the qualification exam requirements shall be ordered to withdraw from the university or provide an advanced result for his or her graduation standard. The PhD qualification exam requirements are specified separately.

七、研究生於修滿第五點所規定之學分並通過資格考試後，始得提出博士學位候選人資格審定之申請，經指導教授同意，送本學程學術委員會審查通過，方能取得博士學位候選人資格。

Each graduate student may submit the application for doctoral candidate qualification review only after he or she completes the credit requirements specified in Requirement 5 and passes the qualifying exam. Each graduate student must receive the approval of his or her advisor and have his or her application reviewed as well as approved by the Doctoral Program Committee before becoming a qualified doctoral candidate.

八、研究生於獲得博士學位候選人資格後，各項論文(含提要暨論文原創性比對系統檢測結果)、技術成果達到規定者，經指導教授書面同意後，始得提出學位考試之申請。經本學程博士學位資格審查委員會議審定合格，確認口試委員名單後，使得安排學位考試。學位考試依據本校相關辦法辦理，第一次未通過者得重考一次，論文考試及格者始得取得畢業資格。

Each qualified doctoral candidate who has submitted a qualified doctoral dissertation (including the summary and the results of Plagiarism Detection for Thesis Originality) and showed qualified technical achievements may apply for the degree examination after receiving written approval from his or her advisor. The student may make arrangements for the degree examination after having his or her application reviewed and approved by the Doctoral Program Committee and submitting the final list of committee members. The degree examination shall conform to the related regulations of the university. Students who do not pass their first dissertation defense may apply for a second dissertation defense. Students who pass the dissertation defense are eligible to graduate.

九、博士班研究生符合下列各項規定者，得申請博士學位考試：

Doctoral program graduate students who have completed the following requirements may submit the application for the doctoral degree examination:

(一)**經博士班學術委員會**通過博士學位候選人資格考核**及學位考試資格審查，確認學位論文主題與專業領域相符**。**Each doctoral candidate who passes both the doctoral qualification examination and the degree examination evaluation approved by the Doctoral Program Committee shall confirm that the topic of his/ her thesis or dissertation is in conformity with professional field.**

(二)通過博士學位候選人資格考核。Pass the doctoral candidate qualification examination.

(三)修業屆滿二年之當學期起。Complete at least two years of study in the program.

(四)已完成論文初稿。Complete the first draft of the dissertation.

(五)申請博士論文考試前應發表 EI、SCI、SSCI、TSSCI 認定之論文（期刊或研討會）兩篇，其中一篇論文得以「發明專利」折抵。上述論文作者除指導教授外研究生必須列為排序第一作者，其第一作者及申請研究生須以本校名義發表為準。

Each doctoral student must have two publications (journal or conference paper), one of which can be waived if the student has earned an “invention patent,” indexed by EI, SCI, SSCI, or TSSCI, before applying for the dissertation defense. The student shall be listed as the first author of the

aforementioned publications apart from the advisor; the student and first author must publish the study in the name of National Formosa University.

(六)英文門檻：(三擇一)

English proficiency requirements for graduation: (choose one of the three)

1. IBT-TOELF61 分以上、TOEIC650 分以上或 IELTS4 分以上。
   Score over 61 on IBT-TOEFL, over 650 on TOEIC, or over 4 on IELTS.
2. 全民英檢中級檢定通過。
   Pass the GEPT Intermediate Level Test
3. 出席國際學術研討會並以英語口頭發表論文，國際學術研討會的會議贊助者需為 IEEE、IET、ACM，或會議論文被 Ei Compendex、Engineering Village、Scopus 資料庫收錄。
   Give an oral presentation in English at an international conference sponsored by IEEE, IET, or ACM, or have the conference paper indexed by Ei Compendex, Engineering Village, or Scopus.

十、申請博士學位考試，應依下列規定辦理：

The students shall meet the following requirements when submitting the application for the doctoral degree examination:

(一)申請**學位考試須於口試舉行日前至少一個月以上，**應檢齊下列各項文件：Application for the **degree examination must be submitted at least one month prior to the date of the oral examination.** The following documents should be verified and submitted:

1. 博士學位論文考試申請書。Doctoral Dissertation Defense Application Form.
2. 歷年成績表。The full academic transcript.
3. 論文初稿。The first draft of the dissertation.
4. **中英文論文摘要。The abstract of the dissertation in Chinese and English.**
5. **當學期選課單。The list of courses in the current semester.**
6. **通過學術研究倫理教育課程證明。Certificate of completing the requirements of the education courses in Academic Ethics and Research Integrity.**
7. **發表或被接受之期刊或研討會論文佐證資料。Published or accepted journal articles or conference papers.**
8. **英文門檻(三擇一)佐證資料。Certification of English proficiency for graduation (choose one of the three).**

(二)學程主任同意及學術委員會審核通過。The student's application must be reviewed and approved by the Director of Program and the Doctoral Program Committee.

十一、學位考試依下列程序進行：The degree examination shall comply with the following procedures:

(一)組織博士學位考試委員會。 Organize the doctoral degree examination committee.

(二)辦理博士學位考試。Execute the doctoral degree examination.

十二、組織博士學位考試委員會，應依下列規定辦理: The organization of the doctoral degree examination committee shall comply with the following regulations:

(一)委員五至九人(含指導教授)，召集人由委員互相推舉產生，但指導教授不得擔任召集人。
The committee shall consist of five to nine members (including the dissertation advisor). The chairperson shall be elected from among the committee members by the members themselves, but the dissertation advisor cannot serve as the chairperson.

(二)考試委員應具備下列資格之一：
Each committee member shall meet at least one of the following requirements:

1. 現任或曾任教授、副教授。
   The committee member is serving (or used to serve) as a professor or an associate professor
2. 中央研究院院士、現任或曾任中央研究院研究員、副研究員。
   The committee member is an Academician at the Academia Sinica, or is serving (or used to serve) as a researcher or associate researcher at the Academia Sinica.
3. 獲有博士學位，且在學術上著有成就者，**須提供博士學位證明書影本，並符合下列資格之一及提供證明文件:**
   The committee member has a doctoral degree and has achieved significant results in respective academic, **should provide a copy of the doctoral degree certificate and possess one of the following qualifications with certification document.**
   (1)現任或曾任法人機構的研究員或任研究主管職。
   Be currently serving or have served as a research fellow or as a research supervisory position in a legal entity.
   (2)著有三篇以上 EI、ESCI、SCIE 或 SCI 期刊文章，提供文章封面或網頁證明。
   At least three or more EI, ESCI, SCIE or SCI journal articles, providing proof of article cover or webpage.
4. 研究領域屬於稀少性或特殊性學科，且在學術或專業上著有成就者。
   Has expertise in an unusual or highly specialized academic area and has achieved significant results in respective academic or professional field(s).

前項第三款、第四款之資格不得僅以具有研究人員或專業技術人員身分為認定基準，且不得以擬遴選者具有研究人員或專業技術人員之身分為由而逕予遴聘，其認定基準，由博士班學術委員會議定之。
The criteria for determining the qualifications referred to in Subparagraph 3 and Subparagraph 4 of the preceding paragraph shall be set not solely on the status of a research fellow or a professional technician. Furthermore, the prospective candidate shall not be selected on the basis that he/she has the status of a research fellow or a professional technician, but shall be set at the criteria agreed by the Doctoral Program Committee.

(三)考試委員應對博士學位候選人之研究領域有專門研究，由指導教授推薦至博士班學術委員會審查通過後，由校長遴聘之。
The members of the Ph.D. Degree Examination Committee must have expertise in the area related to the doctoral candidates and should be recommended by the supervisor to the Doctoral Program Committee for review and approval, and then be selected and appointed by the President of the university.

十三、學位考試之辦理，應符合下列規定：

The execution of the doctoral degree examination shall comply with the following regulations:

(一)學位考試申請期限 Application Deadline for Degree Examination

第一學期自完成註冊手續起至十一月三十日止。

The first semester starts on completion of registration until November 30th.

第二學期自完成註冊手續起至四月三十日止。

The second semester starts on the completion of the registration until April 30th.

申請學位考試須於上述期間結束前，檢齊第十條各項文件。

Applicants for the degree examination must complete the documents listed in Article 10 before the end of the above period.

(二)研究生申請學位考試核准備案後，檢具繕印博士論文與摘要各九份，送請學術委員會審查符合規定後，擇期辦理有關學位考試事宜。考試方式以口試行之。

After the graduate student's degree examination application is approved, the student shall submit nine hard copies of the dissertation and nine hard copies of the abstract to the Doctoral Program Committee for review, before making arrangements for the degree examination. The dissertation defense shall be conducted in the form of an oral exam.

(三)學位考試以公開舉行為原則，須至少一週前於公佈欄公告論文考試題目、時間、地點及口試委員名單。

Degree examination shall be held in public. The thesis topic, time, venue and list of oral examination committee shall be announced in the bulletin board at least one week in advance.

(四)學位考試成績以七十分為及格，一百分為滿分，並以出席委員評定分數平均決定之。但有二分之一(含)以上委員評定不及格者，即以不及格論。評定以一次為限。

The passing score of the degree examination is 70, with 100 as the maximum score. The student's final grade is the average of the scores given by the presented committee members. However, if at least **one half (including one half)** of the committee members give the student a failing grade, the student fails the degree examination. The committee members can only score the student once.

(五)考試委員應親自出席委員會，不得委託他人為代表，學位考試至少須委員五人出席；出席委員中須有校外委員 **至少三人始能舉行，不符規定者其考試成績不予採認。**

The committee members shall be presented in person at the degree examination and cannot entrust somebody else to attend the doctoral degree examination. The doctoral degree examination committee is composed of at least five members with **at least three of the members being external committee members. The examination results of those who do not meet the requirement will not be admitted.**

(六)學位考試時，須提交口試論文原創性比對報告書予學位考試委員會參考及審查；並於離校前，須由指導教授確認畢業論文原創性比對報告書。論文原創性比對之相似度須低於百分比三十(含)以下，唯得排除博碩士論文所引用學生自身曾發表相同研究主題之期刊或學術會議論文，以及參考文獻書目。

Students are required to submit Thesis Plagiarism & Originality Check Report to the doctoral degree committee for reference and review during the degree examination. The report on thesis plagiarism & originality must be validated by the supervisor before leaving the university. The similarity of the thesis in terms of originality must be less than

30% (including 30%), except for the citation of journal or conference papers on the same research topic published by the student himself/herself and the bibliography of references.

(七)學位考試成績不及格而其修業年限尚未屆滿者，得於次學期或次學年重考，重考以一次為限；重考成績仍不及格者，應令退學。

The student who fails the degree examination and is still within the allowed period of study can apply for a second dissertation defense in the following semester or academic year. Each student can re-apply for a second dissertation defense for only once if he/she fails his/her first dissertation defense. If the student fails his/her second dissertation defense, the student will be expelled from the school.

(八)學位論文，以中英文撰寫為原則；已經用於取得其它學位之論文，不得再行提出。

The dissertation shall be written in English or Chinese. The students are not allowed to submit a dissertation that had already been submitted to acquire another degree before.

十四、對於已授予之學位，如發現論文、技術報告**經舉證**有抄襲**、代寫**或舞弊情事，經**本校組成之**

審查委員會審查屬實者，撤銷**其畢業資格**並追繳**、註銷其**學位證書。**其指導教授應負之責任，**

由教評會審議處理。

If a thesis or technical report is found to be plagiarized material, was written by someone else, or constitutes form of fraud, and is found to be true by the review committee formed by the University, a degree conferred by a university shall be revoked, and the degree diploma shall be returned and invalidated. The responsibility of the supervisor shall be deliberate by the Faculty Evaluation Committee.

前項研究生經撤銷其畢業資格並註銷其學位證書者，即使未屆滿修業年限，亦不得要求繼續修業。

A graduate student whose degree has been revoked and whose degree diploma has been invalidated, shall not be eligible for further study even if academic duration hasn't expired yet.

十五、本學程學術委員會由各學院院長各推薦兩位教授擔任，學程主任為當然委員兼召集人。

The Doctoral Program Committee is made up of two faculty members from each college, with recommendations from the college deans. The program director serves as both the ex-officio member and the convener.

十六、博士學位考試資格審查委員會議委員由本學程學術委員會組成，並請指導教授列席。

The doctoral candidate evaluation committee should be composed of members from the Doctoral Program Committee, joined by the thesis advisor.

十七、本規定如有未盡事宜，依相關法令及本校規定辦理。

Any terms and regulations not mentioned herein shall be governed by relevant laws and the university's applicable rules and regulations

十八、本規章經院務會議、教務會議通過，並經核定後實施，修正時亦同。

The terms and regulations have been approved by the College Affairs and the Academic Affairs Meetings. Implementation begins after approval and each amendment approval.