# 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

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 "甲" (Engineering), Group "乙" (Electrical Engineering and Computer Science), Group "丙" (Management), and Group "丁" (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，研究生需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 dissertation defense 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。

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.

（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 (two 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碩士課程(不得與大學部合開)作為畢業學分。

　　Each graduate student may select the MA/PhD courses (that are not open to both undergraduate and graduate students) 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，選修本校其所屬組別外其他系(或他校)博碩士班課程(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 MA/PhD electives (that are not open to both undergraduate and **graduate program of on the jobs class at the same time**) from another department of 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 written qualifying exam. Students applying for the qualifying exam must do so before the set deadline in each semester. Students who do not meet the qualifying exam requirements shall face expulsion from the university or provide an advanced result for his or her graduation project. The PhD qualifying 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 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 dissertation defense after receiving written approval from his or her advisor. The student may make arrangements for the dissertation defense after having his or her application reviewed and approved by the Doctoral Program Committee and submitting the final list of committee members. The dissertation defense 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 students who have completed the following requirements may submit the application for the dissertation defense:

1. 通過博士學位候選人資格考核。Pass the doctoral candidate qualification examination.
2. 修業居滿二年之當學期起。Complete at least two years of study in the program.
3. 已完成論文初稿。Complete the first draft of the dissertation.
4. 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.

5. 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 dissertation defense:

1. 申請時應檢齊下列各項文件：Prepare the following documents for application:

(1) 博士學位論文考試申請書。Doctoral Dissertation Defense Application Form

(2) 歷年成績表一份。One copy of the full academic transcript

(3) 論文初稿及其摘要各一份。One copy of the first draft and of the summary of the dissertation

(4) 學位考試委員名冊。Name list of the dissertation defense committee members

2. 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 Academic Committee members.

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

1. 組織博士學位考試委員會。Organize the doctoral dissertation defense committee.

2. 辦理博士學位考試。Execute the doctoral dissertation defense.

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 dissertation defense committee shall comply with the following regulations:

1. 委員五至九人(含指導教授)，其中校外委員須至少三分之一(含)，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), no less than one-third of which shall be from outside National Formosa University. The chairperson shall be elected from among the committee members by the members themselves, but the dissertation advisor cannot serve as the chairperson.

2. 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。The committee member has a doctoral degree and distinguished academic achievements.

   (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。The committee member specializes in an uncommon or unique field, and has distinguished academic or professional achievements.

3. 考試委員由指導教授推薦，學程主任核定之。

   The committee members shall be recommended by the dissertation advisor and approved by the Director of Program.

十三、博士學位考試之相關規定 Regulations of the Doctoral Dissertation Defense

產業博士學位學程研究生於獲得博士學位候選人資格後，研究成果達到規定者，提送學位論文應填具學位考試申請表外，檢附歷年成績單、論文初稿含摘要並完成「論文原創性比對」且相似度 ≦20%，若相似度超過 20%則檢附說明經指導教授書面同意後，始得提出學位考試之申請。經本學位學程會議資格審查審定合格，及通過口試委員名單後，始得安排學位考試。

To apply for the dissertation defense, each graduate student of the program must obtain the doctoral candidate qualification, provide qualified research achievements, submit the doctoral dissertation, fill out the dissertation defense application form, submit a copy of the full academic transcript, submit the

first draft and summary of the dissertation, and submit a "Turnitin" result of 20% or less. If the "Turnitin" result is higher than 20%, the student must submit a letter of explanation and a written consent from the advisor. After the Program Committee validates the student's application and defense committee member list, the student can then begin to make arrangements for the dissertation defense.

十四、 學位考試之辦理，應符合下列規定：The execution of the dissertation defense shall comply with the following regulations:

1. 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 dissertation defense application is approved, the student shall submit nine hard copies of the dissertation and nine hard copies of the summary to the Academic Committee for review, before making arrangements for the dissertation defense. The dissertation defense shall be conducted in the form of an oral exam.

2. 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。但有三分之一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 dissertation defense is 70, out of a full mark of 100, and the student's final grade is the average of the scores given by the present committee members. However, if over one-third of the committee members give the student a failing grade, the student does not pass the dissertation defense. The committee members can only score the student once.

3. 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三分之一參加。

   The committee members shall be present in person at the dissertation defense and cannot entrust somebody else to attend the dissertation defense. At least five committee members, no less than one-third of which shall be from outside National Formosa University, must be present at the dissertation defense.

4. 論文有抄襲或舞弊情事，經學位考試委員會審查確定者，應予以退學。

   If the committee discovers and confirms that the student committed fraud or plagiarism in writing his/her dissertation, the student will be suspended from the school.

5. 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 dissertation defense 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 suspended from the school.

6. 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.

7. 學位考試之舉辦期間，第一學期為十月初至一月底，第二學期為四月初至七月底，學位考試申請者須於上述期間結束前至少一個月以上，提出完整之論文及口試委員名單。

   The date of the dissertation defense shall be between early October and late January in the first semester, or between early April and late July in the second semester. The applicant for the

dissertation defense must submit the complete dissertation and committee member list at least one month before the end of the aforementioned period of time.

十五、對於已授予之學位，如發現論文、創作、展演或書面報告、技術報告有抄襲或舞弊情事，經調查屬實者，應予撤銷，並追繳已發之學位證書。

After the student receives his/her doctoral degree, if it is later confirmed that the student committed fraud or plagiarism in his/her dissertation, creation, exhibition, written report, or technical report, the bestowed academic degree and degree certificate will be revoked.

十六、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 program's Academic Committee is made up of two faculty members from each department, with recommendations from the department chairs. The program director serves as both the ex-officio member and the convener.

十七、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 candidacy examination committee should be composed of members from the program's Academic Committee, joined by the dissertation adviser.

十八、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

十九、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.