

光電工程研究所博士班修讀辦法【100學年度入學者適用】

92年04月22日第三次光電所籌備會議通過
92年09月08日第一次光電所所務會議通過
93年04月22日所務會議修正通過
94年04月19日所務會議修正通過
98年01月20日所務會議修正通過
98年05月19日所務會議修正通過
99年06月08日所務會議修正通過
100年06月22日所務會議修正通過

第一條 入學資格

- 一、凡是在公立或已立案之私立大學或獨立學院，或是經過教育部認可之外國大學研究所光電相關學科，獲有碩士學位，經本校博士班研究生入學考試通過者，得進入本所博士班修讀博士學位。
- 二、本所碩士班研究生，成績合於本校「碩士班研究生申請逕行修讀博士學位辦法」之規定，經本所推薦，並經審核通過者，得逕行修讀本所博士學位。
- 三、本校其他所之博士班研究生，經本所核可轉入本所就讀者，得進入本所之博士班修讀博士學位。

第二條 修業年限

修業年限為二年至七年，但在職研究生得延長年限二年。

第三條 必修課程及學分

- 一、必修四個學期四學分之「書報討論」，若修業年限少於四個學期即畢業者，其必修「書報討論」之學期數應和其在學學期數相等，若情況特殊者，由所長認可決定之。
- 二、必修「論文」。
- 三、必修光電子學（I）三學分，光電子學（II）三學分，過去若曾修過類同課程者，可以申請經所長認可後抵免。

除上述必修課程及學分數之外，必須修滿本所認可之課程十四學分，逕行修讀博士學位者，至少修滿本所認可之課程二十六學分；該認可學

分不得包含通識及語文課程並由指導教授認可之，尚未找到指導教授前，由所長認可之。

第四條 資格考試

- 一、博士班研究生入學後即可向本所申請參加資格考考試，資格考試方式，由本所「博士班資格考試實施細則」另行規定。
- 二、本所博士班研究生必須在入學後六個學期內(休學學期不計)通過資格考試，且至多每科僅能考三次。未能於規定期限內通過資格考試者，即令退學。休學學期內已參加資格考試者，其成績與次數均予採計。

第五條 論文指導

- 一、研究生入學後第一學年結束前，必須找到論文指導教授，由指導教授負責其學業與研究之指導。若於第二學年結束後仍未能找到論文指導教授時，所長得指定兩位教授進行了解，若經認定該生不適合在本所繼續修讀時，即令退學。
- 二、指導教授應為考入本所時之專任教授、副教授或助教授(以下簡稱為本所教授)，如果所找的指導教授不是本所教授，必須另找一位本所教授為共同指導教授。
- 三、研究生擬更換指導教授時，必須向所上提出申請。

第六條 論文內容及品質

- 一、博士論文須是博士班研究生在其論文指導教授指導下所完成之原創性研究工作，並經嚴謹而且有系統之整理。
- 二、研究成果由指導教授(或是計畫主持人)及參與學生所共享；學生若更換指導教授後，原計畫及其成果，未徵得原指導教授同意，不應納入學位論文中或自行於期刊發表。

三、除提出博士論文外，博士班研究生在研究期間內應證明其研究水準可達到在國內外學術期刊發表之程度，至少要有一篇論文以該研究生為第一作者（教師除外）。論文發表之質與量，由本所所務會議認定。

第七條 論文之提出

一、論文口試資格之審查

研究生申請論文審查之前，應備妥符合畢業資格之相關資料，

包含：

(一)資格考試通過之文件

(二)論文研究計畫審核通過之證明文件，其通過日期與論文口試日期之間隔，至少為一完整學期或六個月以上。

(三)已發表之論文

(四)歷年成績單(以確認各必修課程皆已通過)

(五)外語合格證明文件

繳交本所所務會議審查，超過出席委員之二分之一(含)同意才算通過。

(六)需擔任以下課程：光電子學一(IPT5140)、光電子(IPT5141)、光電元件與量測(IPT5142)、雷射與非線性光學實驗(IPT5410)、光電實驗 EE 4150) 至少兩個學期之助教。

二、研究計畫審查

(一)由論文指導委員會以口試方式進行，申請者必須於研究計畫審核日兩周前，將研究計畫書交付論文指導委員會全體委員。研究計畫審核口試，需獲全體委員三分之二以上同意票，才算通過；若審核結果未通過，則至少必須間隔三個月，才可再提出

申請。

- (二)每位博士班研究生之論文指導委員會由指導教授及所長共同商議決定四人以上之合適委員，並經所長聘任組合而成，其中指導教授為當然委員，而召集人則由所長指定之。
- (三)每位博士班研究生最多僅能提出二次論文研究計畫審核之申請；且此項論文研究計畫審核必須於入學後 3 年半之內通過，未能於規定次數內通過者，即令退學。

三、論文口試審查

研究生通過論文口試資格後可以向論文審核委員會提出論文初稿審核之申請。論文審核委員會以口試方式進行論文初稿審查，須得全體委員同意才算通過；若是不能通過，必須三個月後才可以再提出申請。論文初稿口試必須公開舉行，並於通告上註明講員為博士學位候選人。

第八條 論文考試

按照本校「博士學位考試細則」之規定辦理。

第九條 學位之撤銷

博士班研究生授予博士學位，其博士論文如經舉證有抄襲、剽竊或偽造數據，情形嚴重，經校方組成之審查委員會審查屬實者，取銷其畢業資格並繳銷其博士學位證書。前項博士班研究生，如經取銷畢業資格並繳銷博士證書，即使未屆滿修業年限亦不得要求繼續修讀。

第十條 本辦法經本所所務會議通過後實施，修改時亦同。

Institute of Photonics Technologies Doctoral Study Program (applicable to students entering on or after the 2011 academic year)

Revised and passed at the Institute of Photonics Technologies (IPT) Institutional Affairs Meeting on June 22, 2011

Article I. Admission Requirements

- i. All those who have a master's degree in disciplines related to photonics from public universities, registered private universities, independent colleges, or foreign graduate institutes that have been recognized by the Ministry of Education may enroll in the doctoral program of IPT after passing the doctoral admissions-examinations of this university.
- ii. Students in the IPT master's program may enroll directly into the doctoral program of this institute by recommendation and approval of IPT. The grades of the student must meet the criteria written in the "Regulations for Master's Students Applying Directly to Study for Doctoral Degrees" of NTHU.
- iii. Doctoral students from the other departments or institutes of NTHU may study in the doctoral program of IPT after receiving IPT approval of transfer.

Article II. Duration of Study

The IPT doctoral program may take a minimum of two years and a maximum of seven years. Students with an approved full-time job may extend two years to their maximum duration of study.

Article III. Required Curriculum and Credits

- i. Four credit units of "Departmental Seminar" earned from four semesters are required. For those graduating within four semesters, the number of seminar taken should be equivalent to the number of semesters of study. Any exception is subject to approval by the institute director.
- ii. A dissertation is required.
- iii. Three credit units of Photonics (I) and three credit units of Photonics (II) are required. Those who have studied and passed courses that are equivalent to Photonics I and Photonics II prior to joining the doctoral program may apply for exemption approval by the director of the institute.

In addition to the above curriculum and unit requirement, 14 units of a

curriculum of courses approved by IPT must be completed. Those who enroll directly into the doctoral program with the status of a one-year of incomplete master's program must complete at least 26 units of courses approved by IPT. The aforementioned 14 or 26 units may not include those earned from courses related to liberal arts or languages, and the courses must be approved by the student's thesis advisor. For students who do not yet have a thesis advisor, the curriculum must be approved by the director of the institute.

Article IV. Qualifying Examination

- i. Doctoral students may apply for the qualifying examination immediately after admission. The rules of the qualifying examination are described in the "Doctoral Degree Program Qualifying Examination Rules of Implementation" of IPT.
- ii. Doctoral students of IPT must pass the qualifying examination within the first six semesters after entering this institute (not counting semesters on leave of absence). A doctoral student is not allowed to take an examination of the same subject more than three times. Those who fail to pass the qualifying examination within the prescribed period of time will be suspended from the PhD program by the institute. The grade and number of examination taken are counted even if qualifying examination is taken during student's on-leave period.

Article V. Dissertation Supervision

- i. A doctoral student must find a thesis advisor within the first academic year of admission. The thesis advisor is responsible for supervising the course and research performance of the student. If a doctoral student fails to find a thesis advisor by the end of his or her second year of admission, the institute director will appoint two faculty members to determine whether the student should be suspended from the doctoral program of the institute.
- ii. The thesis advisor should be a full-time faculty (professor, associate professor, or assistant professor of this institute) at the time the student enrolls into IPT. If the advisor is not a full-time faculty of this institute, a faculty of IPT must agree to serve as a co-advisor.
- iii. Change of a thesis supervisor is subject to approval by IPT.

Article VI. Dissertation Content and Quality

- i. A doctorate dissertation has to be original, novel, rigorous, well organized, and completed by a doctoral student under the supervision

of a thesis advisor.

- ii. Research accomplishments are shared by a doctoral student and his/her thesis advisor (or the principal investigator of the project). If a student changes his/her thesis advisor, the student is not allowed to publish previously accomplished research results in a thesis or journal without prior approval from his/her original thesis advisor.
- iii. In addition to submitting a doctoral dissertation, before graduation, a doctoral student of this institute has to prove his/her own research ability by publishing at least a journal paper with himself or herself being the first author or second author in case the first author is his/her thesis supervisor. The approval of the quality and quantity of the papers will be determined by a vote in a faculty meeting.

Article VII. Submission of Doctorate Dissertation

i. Qualification review

A doctoral student has to prepare the following document before applying the institute review on a dissertation:

- (1) Documents indicating passing the qualifying examination;
- (2) Documents indicating passing the research project evaluation, wherein the passing date has to be a semester or 6 months prior to this qualification review
- (3) List and copy of publications;
- (4) Transcripts (to confirm the completion of all required courses)
- (5) Documents qualifying the proficiency of a foreign language;
- (6) Documents indicating serving as a teaching assistant for at least two semesters in any of the following courses: Photonics I (IPT5140), Photonics II (IPT5141), Photonic Components and Measurements (IPT5142), Laser and Nonlinear Optics Lab (IPT5410), or Photonics Lab (EE4150).

The above materials are subject to a final approval by a vote in a faculty meeting.

ii. Dissertation-proposal Review

- (1) A dissertation-proposal review is to be conducted by a dissertation advisory committee in the form of an oral examination. The applicant must submit his/her dissertation proposal to all members of the dissertation advisory committee two weeks prior to the review date specified by IPT. The research proposal must be approved by two

thirds or more of all committee members. If the proposal is rejected by the committee upon review, the individual has to wait for at least three months to submit a re-review.

(2) The dissertation advisory committee is formed by four or more qualified faculty members or scientist/engineers recommended by a research advisor and appointed by the director of this institute. The advisor is an ex officio member of the committee. The chair of the committee is appointed by the institute director.

(3) A student may submit a dissertation proposal at most two times. The dissertation proposal must be approved within 3.5 years upon admission to the PhD program. Those who fail to meet this requirement will be dismissed from the program.

iii. Dissertation Oral-examination Review

A student passing the qualification review may submit a dissertation draft to a dissertation review committee. The committee members will review the dissertation draft through an oral examination. To pass the examination, the student has to be voted pass by all the committee members. If a student fails in this review, the individual has to wait for at least three months to submit a re-review. The oral examination of this dissertation oral-examination review is to be held in public and announced with a speaker of PhD candidate.

Article VIII. Dissertation Examination

The Dissertation Examination is to be conducted according to the “Doctoral Degree Examination Regulations” of this university.

Article IX. Revocation of a Ph.D. Degree

A PhD degree previously awarded to a student can be revoked, if a university’s review committee determines that a student’s dissertation contains serious plagiarism, or falsified data. In the event of revoking a degree, the degree-revoked student is not allowed to further pursue such a degree in this institute even though the student’s duration of previous study is not expired.

Article X. These regulations and revisions are effective immediately following the approval by vote at the faculty board of IPT.

(This is a translation of the Chinese version of the Institute of Photonics Technologies Doctoral Study Program. In the event of a discrepancy between this English version and the Chinese version, the Chinese version will take precedence over this version.)