

光電工程研究所博士班修讀辦法【108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
101年12月13日通訊投票修正通過
102年04月12日所務會議修正通過
103年06月05日所務會議修正通過
107年05月01日所務會議修正通過
108年01月10日第五次所務會議修正通過
110年03月02日第三次所務會議修正通過
110年09月30日第一次所務會議修正通過

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(含台灣聯合大學系統光電博士學位學程入學考試)。
- 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八學分，逕行修讀博士學位者，至少修滿本所認可之課程二十學分；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、指導教授應為本所之專任教授、副教授或助理教授(以下簡稱為本所教授)。非本所教授可擔任共同指導教授。

三、研究生擬申請共同指導教授或更換指導教授時，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、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），發表論文之研究生任職機構(affiliation)必須包含本所，論文發表之質與量以及是否符合規定，由本所所務會議認定。

第七條 論文之提出

一、研究計畫審核

（一）博士班研究生之研究計畫審核考試委員會由指導教授及所長共同商議決定四人(含)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，召集人由委員共同推舉一位校外委員擔任。

（二）研究計畫審核由計畫審核考試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提交申請單至所辦經所長核定後，另將研究計畫書交付計畫審核考試委員會全體委員審閱。於研究計畫審核口試當日，需獲全體委員三分之二(含)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。

（三）每位博士班研究生最多僅能提出二次研究計畫審核之申請；且此項研究計畫審核必須於入學後3年半之內通過，未能於規定次數或期限內通過者，即令退學。

二、論文口試資格審核

研究生申請論文口試資格審核時，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)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(以確認累計學分已達畢業標準或當學期即將修畢)

(五)外語合格證明文件

(六)論文初稿

(七)需擔任光電所任一課程或光電實驗(EE 4150)至少兩個學期之

助教。

在備妥上述資料後，向所務會議申請論文口試資格審核，需超過出席委員二分之一(含)同意才算通過；若有特殊情形無法於所務會議中進行審查，學生需於欲畢業學期之 12 月(上學期)或 5 月(下學期)的最後一個上班日前向所上提出申請，所長得考量情況成立臨時論文口試資格審查小組進行審查，其成員為 5 人(含)以上，需超過出席委員五分之三(含)以上同意才算通過。

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 經由「台灣聯合大學系統光電博士學位學程」入學之學生，除應遵循「台灣聯合大學系統光電博士學位學程修業規章」，同時必須滿足本修讀辦法之各項規定，始能取得本所博士畢業資格。

第十一條 本辦法中、英文版有所出入時，應以中文版為準。

第十二條 本辦法經本所所務會議通過後實施。

NTHU Institute of Photonics Technologies (IPT) Doctoral Degree Program

Translated from the Chinese version revised and passed at IPT affairs meeting on
2021/09/30

Article I. Admissions 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 admission examinations of NTHU.
- 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. (Those who passed the entrance exam through Taiwan's Universities' IPT system for PhD study are also included.)

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 the maximum duration of study by two years.

Article III. Required Curriculum and Credits

- i. Four credit units of "Seminar" earned from four semesters are required. For those graduating within four semesters, the number of seminars 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, subject to approval by the director of the Institute.

In addition to the above curriculum and course unit requirements, 8 units of curriculum 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 20 units of courses approved by IPT. The aforementioned 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 are described in the "Code of Practice for IPT PhD Qualifying Examination".
- 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 examinations taken are counted even if the qualifying examination is taken during the 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/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 member (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 member of this Institute, a faculty member 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. The PhD dissertation should be a completed work of original creative research by the PhD student under the guidance of his/her dissertation advisor. The dissertation should be rigorous and arranged in a systematic order.
- ii. Without the original dissertation advisor's permission, the student should not change his/her advisor, should not change the original plan or result, and should not remove dissertation content or publish it in a journal.
- iii. Aside from the dissertation presentation, a PhD student should, during the research period, prove his/her research ability and quality at the academic journal publication level, domestic or international. At the least, the PhD student should publish one article as first author (other than his/her professor). The publication should include the author's affiliation with IPT. Whether or not the article meets the level of qualification needs to be determined by an IPT Affairs meeting.

Article VII. Dissertation Presentation

- i. Review of Research Plan
 - A. Each PhD dissertation advisory committee should contain at least four members. The appropriate number is decided by both the PhD advisor and the director of the Institute. The PhD advisor is an obvious member, and the coordinator/convener is appointed by the director of the Institute.
 - B. The Advisory Committee shall review the plan orally. The applicant needs to put forward the research plan to all committee members two weeks prior to the review date. Passing the plan requires approval by at least two thirds of the members. If failed, the applicant needs to wait for at least three months to reapply.
 - C. Each PhD student is limited to apply for a dissertation plan review twice, and the review should be approved before three and a half years after the student entered NTHU. If the plan fails its review in the regulated time, the student is asked to quit the program.
- ii. Oral Review of Dissertation Qualification

Before the graduate student applies for review of his/her dissertation, a preparation of appropriate materials regarding graduation qualification is needed. It includes:

- A. Proof of passing the qualify exam.
- B. Proof of passing the review of the dissertation research plan.

The time between passing the review and the dissertation oral exam should be at least one complete semester or more than six months.

- C. Published journal paper(s).
- D. Transcript records for all the credited courses taken (with proof of passing all the required courses).
- E. Proof of foreign language ability.
- F. Draft of dissertation.
- G. Proof of being the Teaching Assistant for at least two semesters for IPT's courses or EE4150 Optics and Photonics Laboratory.

After the preparation of the above materials, an application for an Institutional Affairs meeting for review of the dissertation is required. It requires at least half of the members present to pass the application.

For special situation that the application cannot be reviewed in the regular Institutional Affairs meeting, the students should submit the application before the last working day in December (the Fall semester) or May (the Spring). The director of the Institute could form a temporary dissertation review committee which should contain at least five members. The requirement is for at least 3 out of 5 members or the same ratio to pass the approval.

Article VIII. Dissertation Exam

Conducted according to NTHU's governing act for PhD degree.

Article IX. Revoking Dissertation

If it is found that the PhD dissertation involved plagiarism, forgery and copying and is proved to be serious, NTHU shall form a review committee to decide whether to revoke the degree; the student is not allowed to continue even if his/her course work has not been completed.

Article X.

In order to be qualified for a PhD degree, students who entered this PhD program through Taiwan's universities' IPT system not only have to follow all the regulations put forward by the program, but also have to satisfy these IPT's rules.

Article XI.

In the event of a discrepancy between the original Chinese version and this English translation, the Chinese version shall prevail.

Article XII.

These regulations is effective following their approval at an IPT Affairs meeting.