

# 國立臺灣大學光電工程學研究所博士班修業規定

## Requirements for Doctoral Program Graduate Institute of Photonics and Optoelectronics National Taiwan University

( 詳細修訂歷程於文末 )  
( See end of document for detailed revision history. )

本文件英文翻譯僅供參考，文義如與中文有歧異，一律以中文版本為準。  
The English translation of this document is for reference only.  
If there is any discrepancy between the text and the Chinese, the Chinese version shall prevail.

109 學年度起入學新生適用  
Applicable for students enrolling including and after the 2020 academic year.

### 一、 課程學分規定：

#### 1. Course Requirements

##### (一) 必修課程：

##### (1) Compulsory Courses

###### 專題討論 (Seminar)：

每學期必修，修滿 6 學期者得免修。以英文上課，並以英文發表演講。  
Compulsory for six semesters. Students who have taken (and completed) six or more semesters of Seminar are exempt. This course will be given in English, and students in this course are also expected to present their works in English.

###### 論文 (Doctoral Thesis)：

至少在學期間最後一學期必修。  
Compulsory in the final semester for which the student intends to graduate.

###### 專題演講 (Colloquium)：

在學期間必修 2 學期。  
Compulsory for two semesters. Students who have taken (and completed) two or more semesters of Colloquium are exempt.

###### 專題研究 (Special Research)：

每學期必修，修滿 6 學期者得免修。  
Compulsory for six semesters. Students who have taken (and completed) six or more semesters of Special Research are exempt.

註 (Notes) :

1. 同學期修習第 2 門(含)以上之「專題研究」,不可挪為補足其他學期修習不足之「專題研究」。

During the course of one semester, regardless of the number of Special Research courses taken, credit from only one Special Research course taken in that semester will be counted towards the requirements for graduation.

2. 凡依本校交換計畫申請出國或獲科技部、教育部之補助出國進修研究達學期授課時數三分之一者,得於出國前或返國後修習補足「專題討論」,達學期授課時數三分之二者,得免修當學期之「專題討論」,但需於返國後該學期提出相當於「專題討論」課程免修習次數之書面心得報告,且於該學期或次學期之本所「專題討論」課上口頭宣讀相當於免修習次數之報告。

Students involved in overseas exchange or research programs in that semester must give seminars to make up for their time of absence for Seminar, before going overseas or after returning from overseas. Students whose time of absence during that semester exceeds more than two thirds of the semester are exempt from Seminar for that semester, however they must hand in written research reports with amounts equivalent to the period of time that they were absent, and give appropriate number of seminars during Seminar in the following semester.

前述皆需提出申請並經指導教授及所長同意。

The aforementioned conditions are at the discretion of the student's Advisor and the Chairman of the institute.

- (二) 須修滿 18 學分 (不包含專題討論、專題研究、專題演講、論文及大學部課程), 其中應修習「本所基礎課程」至少 2 門,「本所應用與專業科技課程」4 類中至少 2 類, 且需滿足「本所基礎課程」、「本所應用與專業科技課程」與「本所認定課程」合計至少 15 學分。

- (2) During the course of the Doctoral Program, students must achieve at least 18 credits by completing a number of courses offered by the university, excluding credits from the four courses mentioned above (Seminar, Doctoral Thesis, Colloquium, and Special Research).

A combined total of 15 credits must be obtained from courses listed in the Fundamental Courses, Specialized Applied Courses, and Institute Recognized Courses. In which, at least two Fundamental Courses must be chosen, and at least one course from two fields must be chosen out of the four fields of specialization in the Specialized Applied Courses.

- (三) 學士班生及碩士班研究生獲准逕行修讀博士學位者之學分規定為 36 學分(不包含專題討論、專題研究、專題演講、論文及大學部課程), 其中應修習「本所基礎課程」至少 3 門,「本所應用與專業科技課程」4 類中至少 3 類, 且需滿足「本所基礎課程」、「本所應用與專業科技課程」與「本所認定課程」合計至少 30 學分。

- (3) Students enrolled in either the Undergraduate's Program or the Master's Program being granted admission into the Doctoral Program under special circumstances, without having completed their current respective programs, must achieve at least 36 credits during the course of their Doctoral Program, by

completing a number of courses offered by the university, excluding credits from the four courses mentioned above (Seminar, Doctoral Thesis, Colloquium, and Special Research).

A combined total of 30 credits must be obtained from courses listed in the Fundamental Courses, Specialized Applied Courses, and Institute Recognized Courses. In which, at least three Fundamental Courses must be chosen, and at least one course from three fields must be chosen out of the four fields of specialization in the Specialized Applied Courses.

「本所基礎課程」、「本所應用與專業科技課程」及「本所認定課程」由本所課程委員會通過者為限。

The lists of Fundamental Courses, Specialized Applied Courses, and Institute Recognized Courses are approved and recognized by the Curriculum Committee.

註 (Notes) :

1. 「本所基礎課程」及「本所應用與專業科技課程」：為本所教師開授與光電相關之課程。另表列公告。

Fundamental Courses and Specialized Applied Courses are courses offered and taught by professors of this institute. For more details, refer to the list of approved courses.

2. 「本所認定課程」：為電機資訊學院各系所開授之研究所專業課程（課程識別碼：電機所 921、資工所 922、電信所 942、電子所 943、資訊與網媒所 944、生醫電子與資訊所 945），但不包含部分課程，不包含之課程另表列公告。

Institute Recognized Courses are related courses offered by other institutes and departments within the College of Electrical Engineering and Computer Science of National Taiwan University, with course codes:

921 : Department of Electrical Engineering

922 : Department of Computer Science and Information Engineering

942 : Graduate Institute of Communication Engineering

943 : Graduate Institute of Electronics Engineering

944 : Graduate Institute of Networking and Multimedia

945 : Graduate Institute of Biomedical Electronics and Bioinformatics

Note that not all courses offered by these departments and institutes are recognized by the Graduate Institute of Photonics and Optoelectronics. For more details, refer to the list of College of Electrical Engineering and Computer Science courses not recognized by the Graduate Institute of Photonics and Optoelectronics.

3. 院外光電相關研究所課程，研究生得於學期開始上課一週前向所辦公室申請，經課程委員通過後，得列為「本所認定課程」。通過之課程另表列公告。

In the case that there exist courses related to photonics and optoelectronics that are not on the approved list, students may appeal to the Graduate Institute of Photonics and Optoelectronics to recognize such courses, in the beginning of the semester one week before the courses start.

If the Curriculum Committee approves, they will be appended to the list of Institute Recognized Courses.

上述 3 點之表列公告，皆公告於本所網頁之「學生資訊」→「課程資訊」，請自行上網查詢。  
The above information is also available online on the institute website.

- (四) 修習雙學位研究生，需於申請本所學位考試前二學期繳交該雙學位考之兩論文題目、綱要及研究所歷年成績單，並經所學術委員會審查通過後，始可申請學位考試。
- (4) Students pursuing a double doctoral program must submit both of their thesis titles (one for each of the two degrees), abstracts, and a transcript of their course records to the Institute at least two semesters prior to the semester of their planned graduation, after which the student may only apply for their thesis defense after explicit approval by the Academic Committee.

## 二、 博士學位候選人資格考核規定：

### 2. Qualifier Examination

- (一) 本所博士班研究生均須參加博士資格考核，須於每學期規定期限內提出申請。
- (1) All students enrolled in the Doctoral Program are required to take and pass the Qualifier Examination prior to their graduation. The dates of the Qualifier Examinations vary between semesters and academic years, and if the student wishes to partake in the Qualifier Examination during a particular semester, the student must apply for it before the application closes for that semester.
- (二) 資格考核應行注意事項：列於附件一。
- (2) Refer to Appendix 1 for various notes regarding the Qualifier Examination.

## 三、 申請博士論文考試資格審查規定：

### 3. Applying for Doctoral Thesis Defense

博士班研究生於通過博士學位候選人資格考核後，申請論文考試前，需完成資格審定：

After passing the Qualifier Examination and attaining PhD candidacy, prior to applying for their Thesis Defense, the student must satisfy the following conditions:

- (一) 學分、資格考核等各項規定已全部滿足，始可申請組織學位考試委員會進行論文口試事宜，並提出委員名單由所方報校申請核准。
- (1) Before applying for Thesis Defense, students must satisfy the credits requirements and have passed the Qualifier Examination. The applicant must

also supply a list of examiners for their defense, which must be approved by the Institute before permission for their Thesis Defense can be granted.

- (二) 進行博士論文審查，依附件二所列之注意事項，提出相關文件進行審查程序，審定合格者始可安排舉行論文考試。
- (2) For regulations regarding meeting the publication requirements, consult Appendix 2.

#### 四、論文考試：

#### 4. Doctoral Thesis Defense

- (一) 考試委員中，應至少有一人為其他所外之專家。
- (1) Among the examiners chosen, at least one examiner must be a person that is not a faculty member of this Institute.
  
- (二) 論文考試之前半部為公開發表，應於一週前在校內張貼公告。後半部不公開，僅由考試委員出席。
- (2) The first part of the Thesis Defense, the presentation of the student's research, will be a public presentation open to all who wish to attend, and must be announced and openly advertised on notice boards within the university campus beginning one week prior to the date of the Thesis Defense. The second part, the examiners' evaluations of the student's work, attendance will be restricted exclusively to only the student and the examiners.

#### 五、博士班研究生在校外有專職之規定：

#### 5. Jobs and Employment Regulations

在校外有專職之研究生入學前須取得服務機關（公司）之同意書交所存查後方得註冊，若有專職未報備者，一經查獲，應報校議處。

Students under full time employment must declare their employment status and obtain explicit permission in written form from their employer prior to enrolment, which will be examined and verified by the institute. Failure to declare will be reported to the university administrative upon discovery.

#### 六、本規定於所務會議通過後實施，修改時亦同。

6. This amendment is in effect as of this moment after the Institute Faculty Council meeting.

七、其他未盡事宜悉依本所其他規定、本校及教育部規定辦理。

7. For all other cases not specified and defined in this document, please refer to the general rules and regulations of the Graduate Institute of Photonics and Optoelectronics, the National Taiwan University, and the Ministry of Education.

| 修正歷程                                | Revisions and Amendments  |
|-------------------------------------|---|
| 84.07.08<br>所務會議通過修訂                | 8 July 1995<br>Revision by the Institute Faculty Council.                                     |
| 85.07.17<br>所務會議通過修訂                | 17 July 1996<br>Revision by the Institute Faculty Council.                                    |
| 87.07.24<br>所務會議通過修訂                | 24 July 1998<br>Revision by the Institute Faculty Council.                                    |
| 88.01.25<br>所務會議通過修訂                | 25 January 1999<br>Revision by the Institute Faculty Council.                                 |
| 88.06.28<br>所務會議通過修訂                | 28 June 1999<br>Revision by the Institute Faculty Council.                                    |
| 89.06.27<br>所務會議通過修訂                | 27 June 2000<br>Revision by the Institute Faculty Council.                                    |
| 92.07.09<br>91 學年度第 2 次所務會議通過修訂     | 9 July 2003<br>Revised during the 2nd faculty council meeting of the 2002 academic year.      |
| 94.06.17<br>93 學年度第 1 次所務會議通過修訂     | 17 June 2005<br>Revised during the 1st faculty council meeting of the 2004 academic year.     |
| 95.06.22<br>94 學年度第 1 次所務會議通過修訂     | 22 June 2006<br>Revised during the 1st faculty council meeting of the 2005 academic year.     |
| 96.06.21<br>95 學年度第 2 次所務會議通過修訂     | 21 June 2007<br>Revised during the 2nd faculty council meeting of the 2006 academic year.     |
| 103.06.12<br>102 學年度第 2 次所務會議通過修訂   | 12 June 2014<br>Revised during the 2nd faculty council meeting of the 2013 academic year.     |
| 104.10.29<br>104 學年度第 1 次臨時所務會議通過修訂 | 29 October 2015<br>Revised during the 1st faculty council meeting of the 2015 academic year.  |
| 105.12.26<br>105 學年度第 1 次所務會議通過修訂   | 26 December 2016<br>Revised during the 1st faculty council meeting of the 2016 academic year. |
| 108.12.26<br>108 學年度第 1 次所務會議通過修訂   | 26 December 2019<br>Revised during the 1st faculty council meeting of the 2019 academic year. |
| 109.06.18<br>108 學年度第 2 次所務會議通過修訂   | 18 June 2020<br>Revised during the 2nd faculty council meeting of the 2019 academic year.     |