

# 國立成功大學電機工程學系含(微電子工程研究所、電腦與通信工程研究所、奈米積體電路工程)博士班規則

## National Cheng Kung University Guidelines for Doctoral Degree Program in Electrical Engineering Department

78.12.26	學術委員會會議通過	79.01.04	系所聯席會議通過	79.11.23	學術委員會會議修訂	79.12.07	系所聯席會議通過
80.01.14	學術委員會會議修訂	81.03.02	學術委員會會議修訂	81.03.16	系所聯席會議通過	85.01.15	系所聯席會議通過
85.06.26	系所聯席會議通過	86.11.13	系所聯席會議通過	87.04.21	學術委員會會議修訂	88.10.22	學術委員會會議修訂
88.11.02	系所系務會議通過	88.11.05	學術委員會會議修訂	88.12.03	學術委員會會議修訂	89.01.20	學術委員會會議修訂
89.01.25	系所系務會議通過	89.07.18	系所系務會議通過	90.01.18	系所系務會議通過	90.02.21	學術委員會會議修訂
90.04.30	學術委員會會議修訂	90.06.12	學術委員會會議修訂	91.01.03	學術委員會會議修訂	91.04.22	學術委員會會議修訂
91.06.24	學術委員會會議修訂	91.07.22	系所系務會議通過	91.12.03	系所系務會議修訂	92.01.15	系所系務會議通過
92.06.02	學術委員會會議修訂	92.10.20	學術委員會會議修訂	93.02.26	學術委員會會議修訂	93.04.23	系所系務會議通過
93.04.26	學術委員會會議修訂	93.05.31	學術委員會會議修訂	93.11.29	學術委員會會議修訂	94.01.10	學術委員會會議修訂
94.01.12	系所系務會議通過	94.04.25	學術委員會會議通過	94.11.28	學術委員會會議通過	95.04.19	學術委員會會議通過
95.07.05	學術委員會會議通過	95.09.08	學術委員會會議通過	95.12.04	學術委員會會議通過	96.01.15	學術委員會會議通過
96.01.24	系所系務會議通過	96.04.23	學術委員會會議通過	96.05.28	學術委員會會議通過	96.07.09	學術委員會會議通過
96.09.13	學術委員會會議通過	96.12.03	學術委員會會議通過	97.01.14	學術委員會會議通過	97.05.27	學術委員會會議通過
97.10.20	學術委員會會議通過	98.01.12	學術委員會會議通過	98.07.06	學術委員會會議通過	98.10.09	學術委員會會議通過
99.04.20	學術委員會會議通過	97.10.20	學術委員會會議通過	98.01.12	學術委員會會議通過	98.07.06	學術委員會會議通過
98.10.09	學術委員會會議通過	99.10.09	學術委員會會議通過	99.04.20	學術委員會會議通過	99.06.30	學術委員會會議通過
100.01.10	學術委員會會議通過	100.04.20	學術委員會會議通過	100.05.23	學術委員會會議通過	100.06.20	學術委員會會議通過
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103.01.06	學術委員會會議通過	103.01.14	系所系務會議通過	103.04.21	學術委員會會議通過	103.06.16	學術委員會會議通過
103.06.23	系所系務會議通過	104.01.19	學術委員會會議通過	104.04.09	系所系務會議通過	104.09.30	學術委員會會議通過
104.10.22	系所系務會議通過	105.03.24	學術委員會會議通過	105.04.19	學術委員會會議通過	105.06.08	學術委員會會議通過
105.07.21	學術委員會會議通過	105.09.30	學術委員會會議通過	106.01.03	學術委員會會議通過	106.01.11	系所務會議通過
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108.10.09	系所務會議通過	109.06.17	系所務會議通過	110.01.07	系所務會議通過	110.10.06	系所務會議通過
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國立成功大學電機工程學系含(微電子工程研究所、電腦與通信工程研究所、奈米積體電路工程)博士班規則(以下簡稱本規則)依本校教務規章訂定之。

Guidelines for Doctoral Degree Program in Electrical Engineering Department, including Institute of Micro-electronics Engineering, Institute of Computer and Communication Engineering, and Graduate Program on Nano-Integrated-Circuit Engineering, of NCKU hereinafter referred to as "the Guidelines" are hereby formulated in accordance with NCKU Academic Regulations

1.入學要求:筆試、口試及審查。

1. Entry Requirements: Written test, oral test and review.

2.學分制度:

(A)依教育部有關法令辦理。

(B)碩士班修過之課程名稱,博士班重覆選者,該學分不予承認。【1080103】

(C)畢業學分之承認依本系相關規定辦理。

(1)學分抵免依據「博士班研究生抵免學分及資格考規則」辦理。【1080528】

(2)自107學年度起入學之研究生修習外系所課程規定如下:【1080103】

(a).本地生:本系所予以承認之學分數最多不得超過其畢業規定最低總學分數之1/2(含),須先經指導教授及系主任同意才能辦理選課。碩士生之大學部課程抵免及博士生之研究所課程抵免學分除本系所取得外,一律僅承認其為外系所課程學分。

(b).外籍生:本系所予以承認之最多學分數為其畢業規定最低總學分數,須先經指導教授及系主任同意才能辦理選課。若本系所英文授學分數已足夠外籍生修習,則本條文應不再適用。

(c).上述定義之外籍生為經本校國際事務處入學學生，經其餘管道入學學生皆為本地生。

## 2. Credit system:

- (A) In accordance with relevant laws and regulations of the Ministry of Education.
- (B) A course taken during the master's program, if repeated by a doctoral program, shall not be recognized for credit. (Date:108/01/03)
- (C) The recognition of graduation credits shall adhere to relevant regulations of the Department.
- (1) Credit waivers shall be handled in accordance with *the Guidelines for Credit Waiver and Qualifying Examinations for Doctoral Students of the Department.*(博士班研究生抵免學分及資格考規則) (108/05/28)
- (2) The Guidelines for graduate students who enrolled from the Academic Year 2018 taking courses from other departments are as follows: (108/01/03)
- (a). Local students: The maximum number of credits recognized by the Department shall not exceed one-half (inclusive) of the minimum total credits required for graduation. Course selection shall be prior approved by the advisor and the Department Chair. Credits granted for undergraduate courses for master's students, as well as credits granted for graduate courses for doctoral students, other than those obtained within the Department, will only be recognized as credits from other departments.
- (b). Foreign students: The maximum number of credits recognized by the Department is the minimum number required for graduation. Course selection shall be prior approved by the advisor and the Department Chair. In the event that the courses of the Department taught in English are sufficient for foreign students, this Subparagraph shall no longer be applicable.
- (c). Students said in Subparagraph (b) are defined as those who are admitted through the Office of International Affairs. Students admitted through other systems are classified as local students.

## 3. 資格考試:

- (A)資格考試科目:選考四科，本組至少三科。但於資格考規定期限內，經該組開會同意，學生得以各組畢業規定之國際權威期刊且為第一作者(指導教授外)之論文乙篇抵免一科，該抵免論文不得列入相關作者之畢業點數。【970527】
- (B)時間及次數:資格考考試每學期舉辦一次，各研究生於第一次參加考試時，依各組別(含所、學程)之規定，必須決定四門選考科目，每門科目經選考後，得更換其考科，被置換的科目不得再被選考，每門考試次數以四次為限(且每門包含被置換之科目)，需於五年內(含)完成，未依規定年限及次數完成者，由本系通知註冊組勒令退學。資格考試及格後方準申請畢業論文口試。【1060621】本規定自八十五學年度入學新生開始實施，八十四學年度以前入學之舊生仍沿用原有之規定。【1000620】
- (C)本系所博士班退學後重新入學生，原組別與重新入學組別相同者，其曾通過資格考且於重新入學年度仍表列於該組博士班資格考科目列表之科目得於入學當學期申請辦理抵免，惟曾以論文抵免之科目需經該組開會同意後辦理。【1080411】
- (D)休學不得參加該學期資格考；已完成資格考後該學期辦理休學其成績不列入計算亦不列入考試次數。

## 3. Qualifying Examination:

- (A) **Qualifying examination subjects:** four subjects shall be selected, with at least three subjects in the group that the student belongs in. However, students may be exempted from one subject, provided they meet the following requirements: 1. Within the time period of the qualifying examination; 2. Approved by the group meeting; 3. The student is listed as the first author (apart from his/her advisor) of a paper accepted in an internationally accredited journal. However, other authors of the same paper shall not apply for graduation

points. (97/05/27)

- (B) Time and frequency: The qualifying examination is held once every semester. Four subjects shall be determined in accordance with the rules of each group (including institute and program) when the student takes the exam for the first time. Each subject may be changed, and the original subject may not be re-selected again. The subjects shall not be taken more than four times (including the subjects which have been changed). The qualifying examination shall be completed within five years. Anyone who fails to complete in accordance with the rules shall be expelled by NCKU. Only after passing the qualifying examination can the student apply for the oral defense. (106/06/21) The Guidelines have been implemented from the Academic Year 1996 for new students' admission. Students enrolled before the Academic Year 1995 shall be subjected to the original Guidelines. (100/06/20)
- (C) If a doctoral student drops out and re-enrolls in the same group prior to dropout, the subjects that were
1. already in the student's qualifying exam and received a passing grade and
  2. still listed in the group's qualifying exam during the year of re-enrollment,
- may be eligible for credit waiver. However, a subject that has been waived by a journal paper shall be approved in a group meeting before applying for credit waiver. (108/04/11)
- (D) Students on suspended years may not be allowed to take the qualifying examination. If the student completes the qualifying examination and takes a leave of absence during the same semester, the exam results shall not be counted nor included in the number of exams taken.

#### 4. 論文初審:

由各組先開會審查（請指導教授送該組召集人召開），審查委員為各組專任教師至少五人出席，專任教師不足五人者得聘本系專任教師或兼任教授，並經秘密無記名投票獲三分之二（含）委員同意，才得向學術委員會提出畢業申請。會議記錄必須包括申請者發表論文之評點認定說明，論文是否具有完整性及創意性，傑出與否，修業年限，是否兼職。會議記錄及秘密無記名投票單密封再於每學期之公佈截止日期前提（已達最後修業期限者原則上可於當學期結束一個半月前提出）送學術委員會核備。

#### 4. Paper preliminary review:

The group committee with at least five full-time faculty teachers shall review first. (please ask the advisor to contact the group's convener to schedule the group meeting) In the event that the group committee is less than five full-time faculty teachers, it may appoint other full-time or part-time faculty teachers of the Department. Paper review shall be approved by more than two-thirds (including two-thirds) of approved votes through a secret ballot. The application for graduation be sent to the Academic Committee. The meeting minutes shall include the evaluation of the PhD candidate's paper, whether the paper is comprehensive, creative, or outstanding. It shall also include the study duration of the PhD candidate, and whether he/she has a part-time job. The meeting minutes and secret ballot slips shall be sealed and submitted to the Academic Committee for approval before the deadline announced each semester (those in the last year of enrollment may, in principle, submit one and a half months before the end of the semester).

#### 5. 博士論文口試:

##### A. 口試委員組織:

依研究生學位考試細則規定，由委員5-9人組成。校外委員至少逾三分之一，指導教授一人為當然委員，由校長指定一人為召集人主持之。校內外委員資格，均依規定辦理之。

##### B. 論文要求，所有論文必須要有本系指導教授掛名其上才可以計點。

(a) 論文發表除資格考試抵免之期刊論文外，必須符合下列兩者之一:

- (1) 直接相關之國際權威期刊論文至少兩篇。

(2)直接相關之國際權威期刊論文至少一篇及學術會議論文至少兩篇其中至少一篇為國際學術會議論文。

(b)國際權威期刊:如 IEEE Proc., Journal, Trans., Letters 中與論文有直接關連者,或與 IEEE 相當或更高水準之其他期刊。

(c)學術會議:具有完整審查制度,並刊印有論文集之國際一流學術會議者。

(d)論文須已刊登或無條件接受刊登者方得列入計算,「兩篇或多篇論文重疊者,以一篇計算」。有下列情況之一者,不列入計點:

(1)在博士班內發表之不相關研究成果者。

(2)非以本系所為成果所屬機構者。(註:微電子所及電通所均需包含該所及電機系)

(3)第一作者之所屬機構未註明為成功大學電機系者。

(e)發表著作之作者,除該博士班研究生與指導教授外,如另有其他作者,應說明其在該一著作內之貢獻。又每篇著作僅能供作一位研究生之申請參考,且該研究生之排名應位在指導教授外前二名中。

(f)畢業時必須至少有一篇期刊論文排名在所有作者群中第一位,(除一位本系指導教授之外,至多兩位)。

(g)未滿(含)三年申請畢業者需經學術委員會議,以無記名投票方式,由出席委員投票決定之,投票以一次為限,逾三分之二(含)以上評定為通過及格者方為通過,否則以不通過論。

#### C.論文口試:

(a)成績以 100 分為滿分,70 分為及格,論文成績以各委員評定之平均分數決定之。

(b)論文考試成績以出席委員投票之平均分數決定之,評定以一次為限,逾三分之二(含)以上評定為及格者方為及格,否則以不及格論。

(c)考試委員不得委託其他委員或非委員代表。

### 5. Dissertation oral defense

#### A. Oral defense committee:

Oral defense committee in accordance with *NCKU Rules and Regulations of Graduation Examination for Graduate Students* shall consist of 5 to 9 members, including at least one-third of outside school (college) members. The advisor serves as an ex officio member of the committee, and the President will appoint another member as the convener. Qualifications of all members shall adhere to *NCKU Rules and Regulations*.

B. Journal paper requirements: all papers shall include the name of the advisor to be eligible for point accumulation.

(a) Apart from the journal paper that is used to waive the qualifying exam, the papers must meet one of the following two criteria:

(1) At least two papers directly related to the research area of specialization, published in international accredited journals.

(2). At least one paper directly related to the research area of specialization, published in international accredited journals, and at least two academic conference papers, in which at least one must be presented at an international academic conference.

(b) International accredited journals: such as IEEE Proc., Journal, Trans., Letters that are directly related to the published paper, or other journals that have levels equivalent to or higher than IEEE.

(c) Academic conferences: must be a first-rate international conference, has a comprehensive peer review process, and has published its conference proceedings/anthology.

(d) For papers to be eligible for point accumulation, they shall be already published or accepted

unconditionally, and if two or more papers overlap, only one may be counted. Those in the following circumstances shall not be eligible for points:

- (1) Publishing research that is not related to the research area of specialization in the doctoral program.
  - (2) Not listing the Department as the affiliated institute. (Note: those belonging to the Institute of Microelectronics Engineering and Institute of Computer and Communication Engineering shall include both the institute and the Department)
  - (3) Not listing the Department, NCKU as the affiliation of the first author.
- (e) If there are other authors (apart from the student and the advisor) listed on a paper, their contributions should be specified. Also, a paper may only be used exclusively for one student when applying for points, and the student shall be listed either as the first or second author apart from the advisor.
  - (f) The student should be listed as the first author in at least one journal paper upon graduation (apart from the advisor).
  - (g) If a student with less than three years of study (inclusive) applies for graduation, the Academic Committee shall convene and vote by secret ballot. The vote is limited to one time only, and requires at least two thirds of members present to vote for early graduation, otherwise the application will not be successful.

#### C. Dissertation oral defense

- (a) Under the graduation examination scores, a score of 100 shall be identified as a full mark and a score of 70 as passing. The paper's score is determined by the average scores given by each committee member.
- (b) The evaluation shall be conducted no more than once and decided by the average scores given by the present members, provided that the decision to pass shall be subject to two-thirds or more of the present members.
- (c) Committee members are prohibited from appointing other persons as their proxies.

6.各組得另訂博士班畢業申請準則（如附件），但需經學術委員會提系務會議通過方能實施，如與本規則抵觸者以本規則為準。

6.Each group may formulated its own Rules regulating Doctoral graduation application (as attached), but the Rules shall be implemented only after the Academic Committee submits them to the Department Affairs Meeting and are approved. In case of any discrepancy between the Rules and the Guidelines, the latter shall prevail.

7.本規則經系務會議通過後實施，本規則適用於通過日之後入學之學生，通過日之前入學之學生得選擇修正前或修正後之規則辦理。

7. These Guidelines shall be approved by the Department Affairs Meeting before taking effect. These Guidelines are applicable to students who enroll after the specified date. Students who enroll before the specified date may choose to adhere to the old Guidelines or the revised version.

8.學術委員會若對申請者有疑義時，得視情況投票，投票方式同5Bg。

If the Academic Committee has doubts about the applicant, it may, according to the situation, conduct a vote using the same voting method as described in Subparagraph (g), Paragraph B., Article 5.

9.資格考科目如下：

The qualifying examination subjects are as follows:

#### A.微電子所：Insitute of Micro-electronics Engineering

- (1) Integrated Optics (積體光學)
- (2) High Speed Devices(高速元件)

- (3) Negative-Differential Resistance Switching Devices(負微分電阻交換元件)【112.06.14起不得選考該科】(This subject is no longer available for selection since 112.06.14)
- (4) Physics of Semiconductor Devices(半導體元件物理)
- (5) Electronic Packaging Technology(電子構裝技術)
- (6) Design and Simulation of Optoelectronics (光電元件設計與模擬)【103.06.06起增列該科】(date of addition)
- (7) ULSI Devices Physics (ULSI元件物理)【103.06.06起增列該科】(date of addition)
- (8) Semiconductor Photonics (半導體光學)【103.06.06起增列該科】(date of addition)
- (9) III-V Compound Semiconductor MOSFETs (III-V族化合物金氧半場效應電晶體)【103.06.06起增列該科】(date of addition)
- (10) Compound Semiconductor Devices (化合物半導體元件)【103.06.06起增列該科】(date of addition)
- (11) Semiconductor Processes (半導體製程)【103.06.06起增列該科】(date of addition)
- (12) Introduction to Optics (光學導論)【103.06.06起增列該科】(date of addition)

**B.電腦與通信工程研究所：Institute of Computer and Communication Engineering**

下列科目中至少選三科：Choose at least three subjects from the following

- (1) Wavelet Signal Processing (小波訊號處理)
- (2) Digital 3D Video (數位三維視訊)
- (3) Antenna Engineering (天線工程)
- (4) Microwave Engineering (微波工程)
- (5) Advanced Electromagnetic Theory (高等電磁理論)
- (6) Communication Networks (通訊網路)
- (7) Stochastic Processes (隨機程序)
- (8) Network Analysis and Modeling (網路效能分析模擬)
- (9) Detection and Estimation (偵測與評估理論)
- (10) Radio Frequency Integrated Circuit Design (射頻積體電路設計)【1101117更換該科名稱】(date of revision)
- (11) Control and Optimization of Wireless Networks (無線網路之控制與最佳化)【1101117新增該科名稱】(date of addition)
- (12) Sequence Design for Communications (通訊序列設計)【1121115新增該科名稱】(date of addition)

**C.控制組：Control Group**

- (1) Multivariable Control (多變數控制)
- (2) Nonlinear Control Systems (非線性控制)
- (3) Singular Perturbation Theory (殊異擾動學)
- (4) Advanced Fuzzy Logic Control (高等模糊控制)
- (5) Power Electronics (電力電子專論)
- (6) Electromagnetic Compatibility (電磁環境相容學)
- (7) Robust Control (強健控制)
- (8) Electronic Navigation (電子導航)
- (9) Introduction to Motion Control System (運動控制系統導論)
- (10) Visual Servo System (視覺伺服系統)
- (11) Applications of Optimization Theory (最佳化理論之應用)
- (12) Introduction to Neural Networks (類神經網路導論)
- (13) An Introduction to Systems Biology (系統生物學概論)【990420新增該科名稱】(date of addition)
- (14) Biological data integration and analysis (生物資料整合與分析)【990420新增該科名稱】(date of addition)

#### **D. 電力組：Power Group**

- (1) Advanced Electric Machinery (電機械特論)
- (2) Advanced Power Electronics (電力電子特論)
- (3) Advanced High Voltage Engineering (高電壓工程特論)
- (4) Control & Operation of Electric Power System (電力系統運轉與控制)
- (5) Design of Electrical Machine(電機機械設計) 【1061005新增該科名稱】 (date of addition)
- (6) Distribution Automation (配電系統自動化)
- (7) Power System Fault Analysis (電力異常現象分析)
- (8) Energy Conversion (能量轉換)
- (9) Solid Electric Machinery (固態電機機械控制)
- (10) Power System Stability (電力系統穩定度)
- (11) Power System Analysis (電力系統分析)
- (12) Power Electronics System Analysis (電力電子系統分析)
- (13) Electric Power Quality (電力品質)
- (14) Advanced Topics on Industrial Electronics (工業電子特論) 【1100927新增該科名稱】 (date of addition)
- (15) Advanced Topics on Engineering Economics (工程經濟特論) 【1100927新增該科名稱】 (date of addition)
- (16) Advanced Topics on Smart Grids (智慧型電網特論) 【1100927新增該科名稱】 (date of addition)

#### **E. VLSI/CAD組：VLSI/CAD Group**

- (1) Computer Algorithms (計算機演算理論)
- (2) VLSI Circuit Design (超大型積體電路設計)
- (3) High Level Synthesis (電路功能合成)
- (4) Analog Circuit Design (類比積體電路)
- (5) VLSI Testing (超大型積體電路測試理論)
- (6) Switching Theory and Logic Design (交換理論與邏輯設計)
- (7) Graph Theory (圖形理論)
- (8) Low Power VLSI Design (低功耗電路設計)
- (9) VLSI System Architecture (超大型積體電路系統結構)
- (10) Digital Signal Processing (數位訊號處理)
- (11) RF Integrated Circuit Design (射頻積體電路設計) 【100.04.20起新增列該科名稱】 (date of addition)
- (12) Power Management Integrated Circuits Design (電源控管積體電路設計) 【1081009】

#### **F. 儀器系統組：Instrument, System and Chip Group**

- (1) Nondestructive Testing(非破壞性檢測)
- (2) Bioelectronic Systems(生物電子系統)
- (3) Microwave Engineering and Its Biomedical Applications (微波工程及其生醫應用) 【100.12.01起新增列該科名稱】 (date of addition)
- (4) Simulation and Circuit Design for Flat Panel Display (平面顯示器電路設計及模擬) 【106.06.21起新增列該科名稱】 (date of addition)
- (5) System-on-a-chip of Biomedical Monitoring Applications (生醫監控晶片系統) 【106.06.21起新增列該科名稱】 (date of addition)
- (6) Biomedical Integrated Circuit Design (生醫積體電路設計) 【106.06.21起新增列該科名稱】 (date of addition)
- (7) Machine Learning and Bioinformatics (機器學習與生物資訊學) 【106.06.21起新增列該科名稱】 (date of addition)

(8) DESIGN,MODELING,AND FABRICATION OF MEMS DEVICES (微機電元件設計與製程導論)【108.05.28起新增列該科名稱】(date of addition)

(9) DESIGN,SIMULATION,AND CHARACTERIZATION OF ULTRASOUND SYSTEM (超音波系統與設計實務)【108.05.28起新增列該科名稱】(date of addition)

#### G.材料組：Material Group

- (1) Materials Science (材料科學)
- (2) Electronic Ceramics (電子陶瓷)
- (3) Piezoelectric Devices(壓電元件)
- (4) Ceramic Semiconductors (陶瓷半導體)
- (5) Microwave Devices and Circuits(微波元件與電路)
- (6) Acoustic Electro-Optic Device(聲電光元件)
- (7) Low Temperature Cofired Ceramic Technology (低溫共燒陶瓷技術)
- (8) Thick Film Engineering (厚膜工程)
- (9) Solid Thermodynamics (固態熱力學)
- (10) Physics of Nano Scaled Materials and Devices (奈米材料與元件物理)
- (11) RF Passive Components (射頻被動元件)
- (12) Ferroelectric Materials and Devices (鐵電材料與元件)
- (13) Crystal structure and principle techniques for material characterizations (晶體結構與材料分析)【980212】

#### H.資訊工程組：Computer Science and Information Engineering Group

下列七科核心科目中任選至少兩科 Choose at least two subjects from the following seven core subjects

- (1) Data Structure and Algorithms. (資料結構與演算法)
- (2) Computer Architecture (計算機結構)
- (3) Operating Systems (作業系統)
- (4) Computer Networks (計算機網路)
- (5) Database Management Systems (資料庫管理系統)
- (6) Probability and Statistics (機率與統計)
- (7) Discrete Mathematics(離散數學)【112.06.14起新增】(date of addition)

下列十一科非核心科目中任選至少一科 Choose at least one subject from the following eleven non-core subjects:

- (1) Data Compression (資料壓縮)
- (2) Parallel and Distributed Processing (分散式處理系統)
- (3) Computer System Modeling and Performance Evaluation (計算機系統效能分析)
- (4) Computer Vision and Pattern Recognition (電腦視覺與識別)
- (5) Neural Networks (類神經網路)
- (6) Object-Oriented Technology and Software Engineering (物件導向技術暨軟體工程)
- (7) Fault-Tolerant Systems (容錯系統)
- (8) Network Systems Design and Analysis (網路系統設計與分析)
- (9) Real-Time System (即時系統)
- (10) Data Mining (資料探勘)
- (11) Compiler (編譯器)【112.06.14起調整為非核心科目】(date of revision)

\* Expert system (專家系統)、Computer Graphics (計算機圖學)、Internet Multimedia Application (網際網路多媒體應用)【112.06.14起刪除】(date of deletion)



## **I. 奈米積體電路工程學位學程：Nano-Integrated Circuit Engineering Program**

比照A. 微電子所資格考科目，修正時亦同。

Subjects are the same as A. Institute of Microelectronics Engineering's. Amendments shall be processed accordingly.

以下為本規則之附件

The following is an annex to these Guidelines.

## § 控制組博士班畢業申請準則

1. 畢業之最低點數：  
第二年 -- 21點（至少三篇國際期刊）。  
第三年以後(含第三年) -- 10點（不含休學年限）。
2. 每篇論文之點數以排名第一位之研究生計算之（申請者必須為除本系指導教授外第一作者）。
3. 兩文（或多文）重疊，但後文不顯為前文之突破者，視為一文。
4. 兩文重疊，一投在會議，一投在期刊，則以較高之點數計算一次。
5. 論文須經指導教授認可後才能投稿。
6. 期刊與會議論文之點數，詳見附件(一)
7. 畢業時論文必須滿足：  
至少有一篇期刊論文在7點(含)以上及學術會議論文至少兩篇其中至少一篇為國際學術會議論文；或至少有一篇期刊論文在6點(含)以上  
及一篇期刊論文在4點(含)以上。
8. 研究生之論文符合上列各項規定後，經指導教授同意，向本組提出  
組內博士學位口試，經 2/3(含)出席委員以無記名投票通過者，始得向學術委員會提出畢業申請，其中  
不通過之細則詳見附件(二)。
9. 本簡則經組務會議討論通過，報請學術委員會核備（或系務會議審核）  
公佈後實施。公佈日前入學之學生得選修正前或修正後之實施要點  
辦理。修正時亦同。

控制組博士班 附件(一) 評點標準

### (1) Journal

1. AIAA Journals	10/7
2. ASME Transactions	10/7
3. IEEE Series	10/7
4. IFAC Series	10/7
5. SIAM Journals	10/7
6. <u>Impact factor 超過或等於1.2之其他期刊</u>	<u>10/7</u>
7. IEE Proceedings	8/6
8. <u>impact factor 超過或等於0.8且小於1.2之其他期刊</u>	<u>8/6</u>
9. Other International Journals	6/4
10. <u>Domestic Journals</u>	4/2

(已刊登之論文採用論刊登年度之 SCI impact factor 或最新版之 SCI impact factor 兩者中較高者評點；  
已接受但未刊登之論文採用最新版之 SCI impact factor 評點)

### (2) Conference

1. AIAA, ASME, IEE, IEEE, IFAC, IFSA, SIAM等系列之年會	3/1.5
2. ACC, ECC, <u>ASCC</u>	3/1.5
3. Other Conferences	1/0.5

控制組博士班 附件(二)審查不通過之細則

- 一. 在規定年限內未修滿應修之科目與學分者。
- 二. 各學期操行成績有不及格者。
- 三. 本系規定的資格考試尚未通過者。
- 四. 無本系專任指導教授者。
- 五. 發表之記點論文作者欄無本系專任指導教授姓名之一者。
- 六. 與畢業論文直接相關之記點論文發表點數低於本組畢業評點者。
- 七. 記點論文發表除指導教授外學位申請人排名居後者。
- 八. 記點論文之第一作者非以國立成功大學電機工程學系之名發表者。
- 九. 在校內外具有專任職務者，必須修業滿三年後才能申請畢業口試。
- 十. 口試不通過者。

(注意事項：本準則如有與本系博士班規則抵觸者，以本系博士班規則為準)

**以下五點【112.09.20 學術委員會新增】【112.10.04 系務會議通過】**

- 一、若論文投稿與被接受發表時，該期刊有JCR，則依該期刊原點數計算，畢業生須檢附投稿函與論文接受函證明之。
- 二、若論文投稿時有JCR，然被接受發表時已被JCR剔除，則依該期刊原點數一半計算之。
- 三、若被JCR剔除後再投稿之論文，則不計點數。
- 四、博士論文於Turnitin相似度(重複率)檢查時，在扣除有算點數之論文後，重複率(包含參考資料)需小於等於20%;不含參考資料時，須小於等於15%。
- 五.1、碩士論文若有自己已發表論文者，扣除已發表之論文後，其重複率(包含參考資料)須小於等於20%;不含參考資料時，須小於等於15%。
- 五.2、碩士論文於Turnitin相似度(重複率)檢查時，重複率(包含參考資料)須小於等於30%(或35%);不含參考資料時，須小於等於25%(或30%)。這部分宜由系上統一規範。

## § 電力組博士班畢業申請準則

### 1. 論文要求:

- (1)研究成果必須具有創造性及完整性，並須寫成論文。
- (2)論文發表採積分制，先送學術委員會審查，再送系務會議通過後實施，修正時亦同。積分算法宜考慮下列因素：
  - (a)各年級畢業最低點數。
  - (b)論文排名問題。
  - (c)與碩士論文之重複性。
  - (d)與已發表論文之重複性。
  - (e)期刊計點標準。
  - (f)學術會議論文計點標準。
  - (g)發表於某些期刊，學術會議之必要性。
  - (h)其他相關事宜。

### 2. 畢業之最低點數:

不分申請畢業年限，最低點數均為 12 點。

### 3. 論文核定概要:

- (1)畢業時必須至少有一篇期刊論文排名在所有作者群中第一位(本法規僅適用八十學年度起之博士班新生)
- (2)前面作者為本組師生才計算。
- (3)發表論文不得與碩士論文重複，但可為碩士論文之再推廣作品。
- (4)兩文雖重疊且兩投，但一投在會議論文，一投在期刊，則以較高之點數，計一次。
- (5)除指導教授外，排名第一名者，以全分計算，第二名者以1/4計算第三名(含)以後者，不計分。
- (6)未盡事宜以組內討論訂定之

### 4. 期刊論文(Journal Paper)計點標準:

以下計點標準以Full Paper為準。

- (1) IEEE及IET出版之期刊，full paper計為9點、short/correspondence/letter性質之paper計為5點。
- (2) 屬SCI期刊論文，於被接受當年之前一年度，已公佈之Impact Factor在1.0(含)以上者，full paper計為9點、short/correspondence/letter性質之paper計為5點
- (3) 前項所述SCI期刊論文之Impact Factor在1.0以下者，full paper計為5點、short/correspondence/letter性質之paper計為3點。
- (4) 非屬SCI且具有審查制度之期刊論文，full paper計為3點、short/correspondence/letter性質之paper計為2點。

### 5. 會議論文(Conference Paper)計點標準:

Conference Title	Source
(1)有全文(Full Paper)審核之會議。	3
(2)由IEEE主辦之會議。	3
(3)其他關之國外國際會議。	1
(4)中華民國電力研討會。	1
(5)中華民國控制研討會或國內舉辦之全國性會議。	1
(6)未盡事宜以組內討論訂定之	

6. 申請畢業之必備條件：

博士班候選人必須具以下條件之一才得申請畢業。

- (1)至少有 8點(含)以上之期刊論文一篇及學術會議論文至少兩篇其中至少一篇為國際學術會議論文。
- (2)至少有 5點(含)以上之期刊論文二篇。
- (3)至少一篇 5點以上及三篇SCI或EI期刊論文。
- (4)至少一篇 5點以上期刊論文及學術會議論文至少兩篇其中至少一篇為國際學術會議論文經本組教師認同其研究成果者。
- (5)申請三年內畢業者，由組內會議討論後，才得提出。

7. 本案於79.10.04由全電力組博士班學生會議之草案及80.03.23/95.06.13經電力組老師會議修定，以後修改得由電力組老師會議實施。

8. 組內博士班學生投稿期刊之記點依據本組期刊點數表計算，惟記點採JCR Web of Science之impact factor者，在投稿繳交日時該投稿期刊仍列入JCR Web of Science始得記點。若該期刊在投稿繳交日已經被JCR Web of Science撤銷，則不計入點數。

9. 重複率1%含或以下為合理範圍，若重複率為2%或3%則由指導教授簽名確認(論文相似度是排除自己發表的)。

以下 8~9. 二點【112.09.20 學術委員會新增】**【112.10.04 系務會議通過】**

(注意事項：本準則如有與本系博士班規則抵觸者，以本系博士班規則為準)

## § VLSI/CAD組博士班畢業申請準則

1. 本準則經系務會議審核通過後實施, 本準則適用於通過日之後入學之學生, 通過日之前入學之學生得選擇修正前或修正後之準則辦理。本準則如有與本系博士班規則不同者以本系博士班規則為準。

2. 博士班學生符合下列條件者可向 VLSI/CAD 組提出申請畢業

(評審委員為所有 VLSI/CAD 組專任教師)

- A. 通過資格考試
- B. 畢業學分符合要求 (依電機系規定)
- C. 超過畢業所需論文點數
- D. 指導教授同意

若符合上列條件, 由VLSI/CAD組召開全組專任教師會議中, 專任教師至少八人(含)出席以不記名投票, 獲出席專任教師3/4(含)以上同意票後, 始得向本系學術委員會推薦。若符合上列條件, 由VLSI/CAD組召開全組專任教師會議中, 專任教師至少八人(含)出席以不記名投票, 獲出席專任教師3/4(含)以上同意票後, 始得向本系學術委員會推薦。。【1001018學術委員會通過】

3. 畢業之最低點數

三年以內(含)畢業: 16

四年畢業: 13

五年以上(含)畢業: 10

4. 論文評點標準

A. 每篇論文 計點方式, 除 本系指導教授 外, 排第一名者以全部點數計, 二名者以 1/2 點數計算, 排名在第三名以後者不計點。每篇論文只能為一位學生畢業時計點使用。

B. 兩文內容相同者, 則僅能擇一計算點數。

C. 論文必須以成功大學電機系名義發表, 並且需有 本組教師為共同作者之一, 否則不計點。

D. 必須具以下條件之一:

(a) 至少一篇六點以上(含)之期刊論文 及學術會議論文至少兩篇其中至少一篇為國際學術會議論文。

(b) 至少二篇五點以上(含)之期刊論文。

(c) 至少一篇五點以上(含)及二篇SCI或EI期刊論文。

(d) 至少一篇五點以上(含)之期刊論文、一篇SCI或EI期刊論文、及下列三項之一:

a. 一項專利

b. 一項國際競賽或國內部會級以上(含)競賽優等以上(含)獎項

c. 一篇國際會議論文。

E. 點數計算標準

(一) 會議論文

(1) ISSCC: 4

(2) DAC: 4 (但 short paper 計 2 點)

(3) ICCAD: 4

- (4) ITC: 3 (但 short paper 計 2 點)
- (5) FTCS: 3
- (6) CICC: 3
- (7) SPIE: 3
- (8) ICCD: 3
- (9) ISCAS: 2
- (10) ICASSP: 2
- (11) EDAC: 2
- (12) ETC: 2
- (13) ICS: 2
- (14) FUZZ: 2
- (15) ICNN: 2
- (16) NCS: 1
- (17) all other International Conferences--Full Paper 審查者: 2  
Abstract 審查者: 1

(二) 期刊論文

- 1. Algorithmica---5
  - 2. Analog Integrated Circuits and Signal Processing ---5
  - 3. ACM Trans. ---9
  - 4. CACM ---6
  - 5. Computer Processing of Chinese & Oriental Language ---4
  - 6. Computer Aided Design (CAD)---5 /\*R&D paper \*/
  - 7. Computer & Electrical Engineering---3
  - 8. Computer in Industry---3
  - 9. Computer Mathematics with Application---3
  - 10. Computer Speech and Language---5
  - 11. Computer Vision Graphics and Image Processing(CVGIP)---5
  - 12. Computer Vision & Pattern recognition(CVPR)---5
  - 13. Electronics Letters---3
  - 14. Fuzzy Sets and Systems ---5
  - 15. IET (full paper) ---5 (Technical note) ---3
  - 16. IEEE Computers---7
  - 17. IEEE Design and Test---6
  - 18. IEEE Electron Device Letter---5
  - 19. IEEE Proceedings---9
  - 20. IEEE Journal of Biomedical and Health Informatics---9 **【112.06.14起新增】**
  - 21. Multimedia Tools and Applications---3 **【112.06.14起新增】**
1. 新增 IEEE Transaction 或 Journal 之 full paper 若已有近五年 impact factor 數據且其四分位距達 Q1 或 Q2 者(電機領域),一律計 9 點。若其尚未有近五年之 impact factor 數據,則以 6 點計算,日後有實際 impact factor 數據後可再提出點數修正案。
  2. 根據如此方式新增列 IEEE Journal of Display Technology 期刊應計為 6 點。
- 經VLSI/CAD組100/3/3會議討論決議通過,提報本會討論。決議:100/4/20學術委員會 一致通過。

3. 新增列期刊 IEEE Journal on Emerging and Selected Topics in Circuits and Systems (JETCAS) 畢業論文點數為 6 點

經VLSI/CAD組100/5/12會議討論決議通過，提報本會討論。決議：100/5/23學術委員會 一致通過。

20. IEEE Journal on Selected Areas in Communications (full paper) ---9  
(short paper) ---6  
IEEE Microwave and Wireless Components Letters---4 (98.07.06學術委員會通過)  
IEEE Sensors Journal, Full paper 計 9 點, Letter 計 3 點 (98.07.06 學術委員會通過)(104.6.18 系所務會議通過修改 Full paper 為 9 點)
21. IEEE J. Solid- State Circuits (full paper) ---9 (brief) ---6  
(correspondence) ---5
22. IEEE Transactions，除另有規定外，依下列標準計點：  
<971020修正>  
(1) 依據IEEE Transactions on Biomedical Engineering網頁的文字敘述  
([http://tbme.embs.org/for\\_authors/general.html](http://tbme.embs.org/for_authors/general.html))，Communications的文章長度並不比Letters多，因此決議其以4點計算之。  
(2) 修改 VLSI/CAD 組博士班畢業申請準則，第 4-E-二-22 條：  
IEEE Transactions，除另有規定外，依下列標準計點：  
Full paper --- 9  
Correspondence, Brief --- 6  
Letter, Communications --- 4
23. IEEE Transactions on Industry Applications---5
24. IEEE Transactions on Consumer Electronics  
Demo (軟硬體實作可正常操作且非會議論文轉登) ---5  
非Demo---2
25. IEICE Trans.  
Regular Paper---5  
Short Paper---3
26. Integration, the VLSI Journal---5
27. International Journal of Circuit Theory & Application---5
28. International Journal of Electronics---3
29. International Journal of Computer Aided VLSI Design---4
30. International Journal of Pattern Recognition and Artificial Intelligence---5
31. International Journal of Man-Machine System(IJMMS)---3
32. International Journal for Numerical Methods in Engineering---4
33. Image and Vision Computing---4
34. Journal of ACM---9
35. Journal of Algorithms---5
36. Journal of America Society Acoustics(JASA)---3
37. Journal of Circuits, System, and Computers(JCSC)---4
38. Journal of Electronic Testing Theory and Applications(JETTA)---5



39. Journal of Optical Society America---3
40. Journal of Visual Communication and Image Representation---3
41. Journal of VLSI and Computer Systems---3
42. Journal of VLSI Signal Processing---4
43. Journal of Information Science & Engineering---3
44. Machine Vision and Applications---3  
Microwave and Optical Technology Letters---3 (98.07.06 學術委員會通過)
45. MSSP (by Springer)---5
46. Networks---5
47. Neural Network---5
48. NSC Proceeding---3
49. ORSA Journal on Computing---3
50. Pattern Recognition---5
51. Pattern Recognition Letters---3
52. Signal Processing---4
53. Speech Communication---4
54. SIAM Trans. ---9
55. The Computer Journal---3
56. 中國工程師學會期刊---3
57. 電機工程學刊---3
58. 1-57項以外之SCI期刊---3
59. 1-57項以外之EI期刊---2
60. International Journal of Communication Systems (IJCS)---6 **【1081009】**

(三)專利及競賽得獎評點標準

1. 如與期刊或會議論文重複,則僅能擇一計算點數
2. 美國、日本、或歐洲專利---5
3. 中華民國專利---4
4. 其他國家專利---3
5. IEEE及ACM之國際會議獲得論文獎---5
6. 國際競賽或國內部會級以上(含)競賽優等以上(含)獎項---5

(注意事項：本準則如有與本系博士班規則抵觸者，以本系博士班規則為準)

以下二點 **【112.09.20學術委員會新增】** **【112.10.04系務會議通過】**

- 一、若學生投稿期刊時，該期刊收錄在JCR，則該期刊可列入畢業點數計算。
- 二、關於學位論文投稿為期刊論文，或是期刊論文修改成學位論文，相關引用事宜建議參照國科會相關規定(請見”國家科學及技術委員會對研究人員學術倫理規範”)辦理。

## § 電子材料組博士班畢業申請準則

- (一)本辦法規定博士班研究生發表論文之計點標準及方法，作為材料組博士班候選人申請畢業資格中，論文要求合格與否之依據。
- (二)本辦法由材料組全體老師開會討論議定，先送學術委員會審查，再送系務會議通過後實施，修正時亦同。
- (三)論文計點審查會議每學年召開兩次，由全體材料組老師就申請畢業同學之發表論文進行論文之審核及計點之核算。開會日期原則上以本系接受博士班畢業申請日後，兩星期內統一為之。

### (四)發表論文之核定計點要領：

博士班候選人所發表之論文是否列入計點或是否部份計點，將依下列原則決定：

- (1) 論文必須以成功大學電機系名義發表，不符此要件者，不予計分。
- (2) 所發表之系列論文必須與畢業論文相關，不相關之論文，不予計分。
- (3) 除碩士班直攻博士班者外，以碩士論文所發表之論文，其點數不予計算。但若以碩士論文為基礎進行擴充性之研究，則不在此限制之內。
- (4) 若有兩篇（或以上）論文疑似重疊時，除符合第四條第(5)款者外，則於計點審查會議中，若其重疊率平均值高於50%，則只計一篇之積點。
- (5) 若重疊論文中，一為會議論文，一為期刊論文，前者只計一半，後者全數計算。

### (五)期刊點數規定：

- (1) 期刊 (Journal)
  - (a) 重點性期刊之論文為6點，如(九)所列。
  - (b) 其他非重點性期刊4點
- (2) 會議(Conference, Symposium)：國際會議3點，國內會議1點。但會議論文之計點總和不得超過4點，國內至多採計一次。

### (六)計點辦法：

除指導教授外，排名第一名者，以全分計算，第二名者以1/2計算，第三名(含)以後者不計分。

### (七)博士班候選人申請畢業論文之要求合格與否之必要條件：

博士班候選人必須具備下列條件，始為合格：

- (1) 必須至少擁有30個積點。
- (2) 至少有一篇論文為作者(本系指導教授除外)。
- (3) 至少參加國際會議一次及國內會議兩次。

### (八)畢業之最低點數：

- 二年畢業：50 點且需包含重點性期刊之全文論文至少5篇。
- 三年畢業：40 點且需包含重點性期刊之全文論文至少3篇。
- 四年(含以上)畢業：30 點且需包含重點性期刊之全文論文至少2篇。

### (九)重點性期刊全文論文之範圍：

1. Acoustic.
2. Advanced Polymer Science.
3. American Ceramic Society Bulletin
4. Applied Acoustics.
5. Applied Physics Letters

6. Electronics Letters
7. Ferroelectrics
8. Ferroelectrics Letters
9. IET Proceedings G : Circuits, Devices and Systems
10. IET Proceedings H : Microwaves, Optics & Antennas
11. IET Proceedings J : Optoelectronics
12. IEEE Circuits & Device Letters
13. IEEE Electron Device Letters
14. IEEE Journal of Solid- State Circuits
15. IEEE Spectrum
16. IEEE Transactions on Circuits and Systems
17. IEEE Transactions on Components , Hybrids and Manufacturing Technology
18. IEEE Transactions on Electrical Insulation
19. IEEE Transactions on Electron Devices
20. IEEE Transactions on Magnetics
21. IEEE Transactions on Microwave Theory and Techniques
22. IEEE Transactions on Semiconductor Manufacturing
23. IEEE Transactions on Ultrasonic , Ferroelectrics and Frequency Control
24. IEICE Transactions on Electronics
25. IEICE Transactions on Communications
26. Integrated Ferroelectrics
27. Japanese Journal of Applied Physics, I : Regular Paper
28. Japanese Journal of Applied Physics, II : Letter
29. Journal of Applied Physics
30. Journal of Crystal Growth
31. Journal of Electronic Material
32. Journal of Electrochemical Society
33. Journal of Light Wave Technology
34. Journal of Material Research
35. Journal of Material Science
36. Journal of Material Science Letters
37. Journal of Material Science and Engineering
38. Journal of Sound and Vibration
39. Journal of the Acoustical Society American
40. Journal of the American Ceramic Society / Communications
41. Journal of the Mechanics and Physics of Solids
42. Journal of the Vacuum Science and Technology A: Vacuum Surfaces
43. Journal of the Vacuum Science and Technology B: Microelectronics
44. Physical Review, B : Condensed Matter
45. Physical Review Letters
46. Proceedings of IEEE
47. Materials Letters

48. Material Research Bulletin
49. Microwave and Optical Technology Letters
50. Microwave Journal
51. Science of Sintering
52. Sensors and Actuators
53. Solid State Communication
54. Solid State Electronics
55. Superlattices and Microstructures
56. Thin Solid Film
57. Ultrasonic

增列：重點性期刊如下(95.09.08學術委員會通過)

number	paper	impact factor
1	Journal of non-crystalline solids	1.264
2	Surface & coatings technology	1.646
3	Applied physics A-materials science & processing	1.99
4	Journal of physics D - Applied physics	1.957
5	Journal of physics - condensed matter	2.145
6	Physica D	1.863
增列：重點性期刊如下(96.05.28學術委員會通過)		
1	Journal of physics and chemistry of solids	1.14
2	Journal of nanoscience and nanotechnology	2.017
增列：重點性期刊如下(96.09.13學術委員會通過)		
1	<b>Electrochemical and Solid State Letters</b>	2.009-----6點

增列：重點性期刊如下(99.04.20學術委員會通過)

1. Full Journal Title: CHEMISTRY OF MATERIALS Publisher: AMER CHEMICAL SOC Subject Categories and journal rank: CHEMISTRY, PHYSICAL (15/113) MATERIALS SCIENCE, MULTIDISCIPLINARY (14/192) Journal Impact Factor: 5.046
2. Full Journal Title: OPTICS EXPRESS Publisher: OPTICAL SOC AMER Subject Categories and journal rank: OPTICS (4/64) Journal Impact Factor: 3.880
3. Full Journal Title: OPTICS LETTERS Publisher: OPTICAL SOC AMER Subject Categories and journal rank: OPTICS (3/64) Journal Impact Factor: 3.772
4. Full Journal Title: Organic Electronics Publisher: ELSEVIER SCIENCE BV Subject Categories and journal rank: MATERIALS SCIENCE, MULTIDISCIPLINARY (21/192) PHYSICS, APPLIED (11/95) Journal Impact Factor: 3.590

增列：重點性期刊如下

1. Vacuum (Impact Factor: 1.858) (PHYSICS, APPLIED, Rank: 55/144)
2. Ceramics International (Impact Factor: 2.605) (MATERIALS SCIENCE, Rank: 4/26)
3. Journal of Alloys and Compounds (Impact Factor: 2.999) (METALLURGY & METALLURGICAL ENGINEERING, Rank: 4/74)
4. Nanoscale (Impact Factor: 7.394)(PHYSICS, APPLIED, Rank:12/144)

增列：重點性期刊如下

1. Journal of Applied Electrochemistry (Impact Factor:2.41) (Rank: 11/28 in Electrochemistry)
2. IEEE Transactions on Device and Materials Reliability (Impact Factor:1.89) (Rank: 69/249 in Engineering, Electrical & Electronics)
3. IEEE Journal of the Electron Devices Society (New journal, impact factor not available in 2014 Journal Citation Reports)

增列：重點性期刊如下(105.09.30學術委員會通過)

1. CRYSTENGGCOMM (Impact Factor:3.849)(Rank: 4/26 in Crystallography)
2. SOLAR ENERGY MATERIALS AND SOLAR CELLS (Impact Factor:4.732)(Rank: 13/88 in ENERGY&FUELS)
3. CERAMICS INTERNATIONAL (Impact Factor:2.758) (Rank: 3/27 in MATERIALS SCIENCE, CERAMICS)
4. International Journal of Applied Ceramic Technology (Impact Factor:1.534)(Rank: 6/27 in MATERIALS SCIENCE, CERAMICS)

增列：重點性期刊如下(106.06.15學術委員會通過)

1. Solar RRL
2. Chalcogenide Letters
3. Progress in Photovoltaics : Research and Applications

增列：重點性期刊如下(106.10.02學術委員會通過)

1. Solar Energy Materials & Solar Cells

增列：重點性期刊如下(108.5.13學術委員會通過)

1. AIP(American Institute of Physics) Advance

增列：重點性期刊【108.10.09學術委員會通過】

number	paper	Impact factor
1	IEEE Journal of Selected Topics in Quantum Electronics	2.446
2	IEEE Journal of Quantum Electronics	2.097
3	Journal of Lightwave Technology	1.791
4	Journal of Electronic Materials	1.367
5	IEEE, Sensors Journal	(new)
6	IEEE Photonics Technology Letters	2.1
7	Journal of Electronical Society	2.33
8	Nanomaterials【1081009】	3.504

增列：重點性期刊【111.12.21學術委員會通過】

number	paper	Impact factor
1	Materials Science and Engineering B-Advanced Functional Solid-State Materials	3.407
2	MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING	4.646
3	OPTICS AND LASER TECHNOLOGY	4.939
4	JOURNAL OF ASIAN CERAMIC SOCIETIES	2.546
5	JOURNAL OF THE EUROPEAN CERAMIC SOCIETY	6.364

增列：重點性期刊【112.03.01學術委員會通過】

number	paper	Impact factor
1	Advanced Functional Materials	19.978

期刊論文計點：

1. Synthetic Metals(impact factor 1.187) -----6
2. Applied Surface Science(impact factor 1.295)----6
3. Journal of Luminescence (impact factor 1.26)-----6
4. Microelectric Engineering (impact factor 0.9)-----6
5. Nano Letters (impact factor 5.033)-----6
6. Nanotechnology (impact factor 1.426)-----6
7. Advanced Materials (impact factor 6.801)-----6
8. Journal of Material Chemistry (impact factor 2.683)-----6
9. Physica D (impact factor 1.655)-----6
10. Surface Science (impact factor 2.189)-----6

新增列期刊 ECS Journal of Solid State Science and Technology、ECS Solid State Science Letters、ACS Applied Materials & Interfaces 畢業論文點數為 6 點(101.05.21 學術委員會通過)

(注意事項：本準則如有與本系博士班規則抵觸者，以本系博士班規則為準)

**以下二點【112.09.20 學術委員會新增】【112.10.04 系務會議通過】**

- 一、由於電子材料組的核心期刊是採正項逐刊表列，並未和 JCR 連動，如已列期刊被 JCR 剔除，將在組務會議個案討論，以決定對該期刊的處置方式。討論結果將送學術委員會做相關的條文修訂。
- 二、碩博士生的論文相似度不宜過高，指導教授可以透過權限設定，剔除該學生已發表列入點數的論文、參考文獻、常用字詞和學術專有名詞等，幫助學生進行比對，(1)如比對整體重複率相似度低於 15%，則可申請畢業，毋需組務會議審議，(2) 如比對相似度高於 15%，則請指導教授和學生至組務會議說明，再依決議決定能否申請畢業。至於碩博士論文與有算點數論文的最高重複率，目前尚未定案，留待未來視情形再討論。

## 儀器系統與晶片組博士班畢業論文評點標準

103.01.06 學術委員會通過

1. 畢業之最低點數  
二年畢業：18 四年畢業：14  
三年畢業：16 五年以上(含)畢業：12
2. 期刊論文計點標準
  - (1) 總排名或領域排名前 40%以及 IEEE 期刊：8
  - (2) 總排名或領域排名前 40%-70%以及下列期刊：6
    - Technology and Disability
    - IEICE 期刊
  - (3) 總排名或領域排名 70%以外：4  
採用 SCI 或 SSCI 五年內最高排名(依 Impact Factor)記點
3. 國際會議論文計點標準
  - (1) Full Paper：2
  - (2) Abstract：1
4. 國內會議論文計點標準
  - (3) 英文 Full Paper：1
  - (4) 其餘不計點
5. 專利計點標準
  - (5) 獲得中華民國或美國、日本、歐洲等任何國家發明專利：2
  - (6) 如果專利和相關論文有直接關係，則這 2 點可以加到該論文作為記點升級之用
6. 每篇論文計點方式，除本系指導教授外，排第一名者以全部點數計，第二名者以 1/2 點數計算，其他不計點。每篇論文只能由一位學生畢業時計點使用。
7. 畢業時必須至少有一篇期刊論文排名在所有作者群中第一位。(本系指導教授除外)
8. 論文須指導教授認可後才可以投稿。
9. 畢業時除研究成果必須具有創造性及完整性之外，同時需滿足下列(1)、(2)條件之一再加上一篇國際會議論文
  - (7) 二篇 6 點以上期刊論文。
  - (8) 一篇 ISSCC 論文。
10. 點數計算辦法通過後入學之新生必須使用此新規則，舊生得選擇使用舊或新規則。
11. 符合上述規定後，畢業學生要向本組提出畢業申請，由組內召集至少五位委員出席，進行不記名投票，逾三分之二(含)以上同意者才能向系學術委員會提出畢業的申請並且附上投票的結果。

注意事項：本準則如有與本系博士班規則抵觸者，以本系博士班規則為準。

以下二點【112.09.20學術委員會新增】**【112.10.04系務會議通過】**

- 一、在投稿時若已經被JCR剔除，則不能列入畢業點數，但若投稿時還是的話，則同意列入畢業點數。
- 二、與投稿論文重複率由指導教授從寬認定，扣掉有算點數論文後的重複率則規定上限為20%。

# 奈米積體電路工程博士學位學程畢業申請準則

一〇五年三月二十四日學術委員會會議通過

一〇七年三月二十六日學術委員會會議通過

1. 奈米積體電路工程博士學位學程為訂定博士班畢業申請標準，特依本校電機工程學系博士班規則訂定本準則，本準則未規定事項，悉依相關規定辦理。
2. 畢業之最低計點數為 16 點。
3. 期刊論文計點標準
  - (9) Impact Factor  $\geq 3.0$  或相關領域排名前 40%：8 點
  - (10)  $1.0 \leq \text{Impact Factor} < 3.0$  或相關領域排名前 40%-70%：6 點
  - (11) Impact Factor  $< 1.0$  或領域排名 70%以後：4 點採用 SCI 五年內最高排名(依 Impact Factor)計點
4. 國際會議論文計點標準
  - (12) Full Paper：2 點
  - (13) Abstract：1 點
  - (14) 旗艦型會議(IEDM、VLSI Symposium、ISSCC)：8 點
5. 國內會議論文計點標準
  - (15) 英文 Full Paper：1 點
  - (16) 其餘不計點
6. 專利計點標準
  - (17) 獲得美國發明專利：6 點
  - (18) 獲得中華民國、日本、歐盟等任何國家發明專利：4 點
  - (19) 同一件專利申
  - (20) 請不同國別只能採計一次
7. 研究計畫計點標準  
參與教育部產學合作培育研發菁英計畫學生如因產學合作計畫之成果受限於合作單位之限制無法進行論文發表，得由合作單位之主管(或業界共同指導教授)、指導教授及另外三位教授審查成果，視其參與狀況給予不超過 6 點之計點。
8. 每篇論文計點方式，除本系指導教授外，排第一名者以全部點數計，第二名者以 1/2 點數計算，其他不計點。每篇論文只能由一位學生畢業時計點使用。
9. 畢業時必須至少有一篇 6 點或以上 SCI 期刊論文排名在所有作者群中第一位。(指導教授除外)
10. 論文須指導教授認可後才可以投稿。
11. 經本校核准至境外大學修讀雙聯學位之學生(如下所列):  
比利時魯汶大學  
於境外大學通過之博士學位資格考試得以抵免本學程之博士學位資格考試。
12. 若有期刊其影響係數在博士班研究生申請畢業時被取消，該期刊之論文是否可以計點以論文投稿時該期刊是否仍有影響係數為依據。(同微電子所博士班規則第七點)【112.09.20 學術委員會新增】。【112.10.04 系務會議通過】
13. 碩博士論文與有算點數論文的重複率，該相似度交由指導教授規定。【112.09.20 學術委員會新增】。【112.10.04 系務會議通過】
14. 本準則經學程會議通過，提系所學術委員會及系所務會議審議通過後實施，修正時亦同。



## §資訊工程組博士班畢業申請準則

1. 可提出畢業申請之最低點數
  - a. 第四年以前(含第四年，不含休學年限)：16 點。
  - b. 第四年以後：12 點。
2. 畢業申請時論文必須滿足：
  - a. 第四年以前提出申請者，至少有一篇 8 點以上之期刊論文，另一篇為 6 點以上之期刊論文。
  - b. 第四年以後提出申請者，至少有一篇 6 點以上之期刊論文為代表作，除本系指導教授外，申請者必須為第一個作者及滿足下列要求之一。
    - (1) 另一篇 6 點以上之期刊論文。
    - (2) 另一篇 4 點以上期刊論文，再加一篇國際學術會議論文 1 篇。
    - (3) 學術會議論文兩篇，其中一篇為國際學術會議。
3. 論文計點方式，除指導教授外，論文排名第一者，以全點數計，論文排名第二者，以 1/2 計算，第三名以後不計分。
4. 論文被收到(Received)之時間須在博士班入學之後。
5. 兩篇(或多篇)重疊，但後者顯然非前者之突破者，視為一篇。
6. 兩篇重疊，一投在會議，一投在期刊(或投在不同之會議)，則以較高之點數計一次。
7. 博士班同學若已通過資格考試及畢業學分要求符合上列畢業最低點數要求，可經指導教授同意下向資訊組教師會議提出申請，資訊組所有老師將審核論文內容之獨創性、聯貫性及完整性，申請者對論文之貢獻程度，經過全體教師 2 / 3 (含) 以上同意(採不記名投票)後，由資訊組全體老師向所學術委員會會議推薦。
8. 發表論文計點表：

點數	會議論文名稱 (Conference Papers)
3	嚴格審查Full Paper之國際會議論文
2	ICS
2	NCS
1	國內會議論文

點數	期刊論文名稱* (Journal Papers)
10	1993-2005 : IEEE Transactions on Speech and Audio Processing (960423 學術委員會通過)

10	2006–present : IEEE Transactions on Audio, Speech and Language Processing(960423 學術委員會通過)
10	ACM Computer Architecture News
10	ACM Computer Communication Review
10	ACM Computing Survey
10	ACM Journal of the ACM
10	ACM Operation System Review
10	ACM Software Engineering Notes
10	ACM Transactions Information and System Security
10	ACM Transactions on Architecture and Code Optimization (TACO)
10	ACM Transactions on Computer Systems
10	ACM Transactions on Computer–Human Interaction
10	ACM Transactions on Database Systems
10	ACM Transactions on Design Automation of Electronic Systems
10	ACM Transactions on Embedded Computing (TECS)
10	ACM Transactions on Graphics
10	ACM Transactions on Information Systems
10	ACM Transactions on Intelligent Systems and Technology
10	ACM Transactions on Knowledge Discovery from Data
10	ACM Transactions on Mathematical Software
10	ACM Transactions on Modeling and Computer Simulation
10	ACM Transactions on Multimedia Computing, Communications and Applications(960423 學術委員會通過)
10	ACM Transactions on Office Information Systems
10	ACM Transactions on Parallel Computing (TOPC)
10	ACM Transactions on Programming Language and Systems
10	ACM Transactions on Sensor Network (TOSN) (960423 學術委員會通過)
10	ACM Transactions on Software Engineering and Methodology
10	Communications of the ACM
10	Data Mining and Knowledge Discovery
10	European Journal of Operational Research
10	GNU 軟體發表視為 10 點之期刊論文
10	IEEE COMMUNICATIONS MAGAZINE
10	IEEE Communications Surveys and Tutorials
10	IEEE Computational Intelligence Magazine
10	IEEE Computer
10	IEEE Computer Graphics and Applications
10	IEEE Design and Test of computers
10	IEEE Expert System
10	IEEE Intelligent Systems
10	IEEE Journal of Optical Communications and Networking (990630 學術委員會通

	過)
10	IEEE Journal of Robotics and Automation
10	IEEE Journal on Selected Areas in Communication Trans. 10 IEEE Journal of
10	IEEE Network
10	IEEE Proceeding
10	IEEE Software
10	IEEE Trans. on Biomedical Engineering
10	IEEE Trans. on Circuits and Systems for Video Technology
10	IEEE Trans. on Fuzzy Systems
10	IEEE Trans. On Knowledge and Data Engineering
10	IEEE Trans. on Medical Imaging
10	IEEE Trans. on Vehicular Technology
10	IEEE Transactions on Biomedical and Health Informatics
10	IEEE Transactions on Cloud Computing (TCC)
10	IEEE Transactions on Communication
10	IEEE Transactions on Computer-Aided-Design
10	IEEE Transactions on Computers
10	IEEE Transactions on Dependable and Secure Computing
10	IEEE Transactions on Geoscience and Remote Sensing
10	IEEE Transactions on Geoscience and Remote Sensing(1051121 學術委員會通過增 列)
10	IEEE Transactions on Image Processing
10	IEEE Transactions on Information Forensics and Security
10	IEEE Transactions on Information Theory
10	IEEE Transactions on Mobile Computing
10	IEEE Transactions on Multimedia (960423 學術委員會通過)
10	IEEE Transactions on Multi-Scale Computing Systems (TMSCS)
10	IEEE Transactions on Neural Networks and Learning Systems
10	IEEE Transactions on Parallel and Distributed System
10	IEEE Transactions on Parallel and Distributed Systems
10	IEEE Transactions on Parallel and Distributed Technology
10	IEEE Transactions on Pattern Analysis and Machine Intelligence
10	IEEE Transactions on Reliability
10	IEEE Transactions on Robotics and Automation
10	IEEE Transactions on Smart Grid
10	IEEE Transactions on Software Engineering
10	IEEE Transactions on System , Man and Cybernetics
10	IEEE Transactions on Very Large Scale Integration Systems
10	IEEE Transactions on Visualization and Computer Graphics

10	IEEE Transactions on VLSI Systems
10	IEEE Transactions on Wireless Communication - Monthly
10	IEEE Transactions on Wireless Communications
10	IEEE/ACM Trans. on Networking
10	IEEE/ACM Transactions on Computational Biology and Bioinformatics
10	Journal of Algorithm
10	Journal of Algorithms-Cognition Informatics and Logic
10	Journal of Real-Time Systems
8	ACM SIGBED Review (980525 學術委員會新增)
10	Knowledge and Information Systems
10	Knowledge-Based Systems
10	Social Networks
10	VLDB Journal
10	IEEE Trans. on Automation Science and Engineering 【112.06.14起新增】
10	IEEE Trans. on Big Data 【112.06.14起新增】
10	IEEE Trans. on Emerging Topics in Computing 【112.06.14起新增】
10	IEEE Trans. on Intelligent Transportation Systems 【112.06.14起新增】
8	ACM Transactions on the Web
8	Cluster Computing
8	Cluster Computing- The Journal of Networks Software Tools and Application
8	Computer Journal
8	Computer Languages
8	Computer Network and ISDN Systems
8	Computer Networks
8	Computer Speech and Language
8	Computers & Security
8	Computing Soft
8	Concurrency and Computation: Practice & Experience (980112 學術委員會通過)
8	Future Generation Computer Systems - The International Journal of Grid Computing Theory Methods and Applications (980112 學術委員會通過)
8	IEEE Internet Computing
8	IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing
8	IEEE Multimedia
8	IEEE Pulse
8	IEEE Security & Privacy
8	IEEE SENSORS JOURNAL
8	IEEE Systems Journal(1050930 學術委員會通過增列)
8	IEEE Transaction on Education(960709 學術委員會通過增列)
8	IEEE Wireless Communication (Formerly :IEEE Personal Communication)
8	IEEE Wireless Communications

8	IET Proceeding
8	International Symposium on Computer Architecture
8	J. of Biomedical Eng.
8	Journal of Acoustic Society of America
8	Journal of Parallel and Distributed Computing
8	Journal of Systems and Software (980112 學術委員會通過)
8	Medical And Biological Engineering and Computing
8	Mobile Computing and Communication Review (ACM Sigmobility)
8	Mobile Computing and Communications Review (ACM SIGMOBILE )
8	Neural Networks
8	Next Generation Computing
8	Parallel Computing
8	Pattern Recognition
8	Physica A
8	Remote Sensing of Environment
8	Science of Computer Programming
8	SIAM Journal on Computing
8	Software Practice and Experience
8	Theoretical Computer Science
8	IEEE Journal on Emerging and Selected Topics in Circuits and Systems
8	IEEE Trans. on Emerging Topics in Computational Intelligence 【112.06.14 起新增】
8	IEEE Trans. on Computational Social Systems 【112.06.14 起新增】
6	ACM Letters on Programming Languages and Systems
6	Acta Informatica
6	Acta Radiologica
6	Ad Hoc Networks
6	Advanced In Engineering Software
6	AI Applications
6	AI Communications
6	AI Edam-Artificial Intelligence For Engineering Design Analysis and Manufacturing
6	AI Magazine
6	American Journal of Radiology
6	Annals of Biomedical Engineering
6	Annals of Mathematics and Artificial Intelligence
6	Annual Review of Information Science and Technology
6	Applicable Algebra In Engineering Communication and Computing
6	Applied Artificial Intelligence
6	Applied Intelligence
6	Applied Mathematics & Information Sciences
6	Applied Optics

6	Applied Radiation and Isotopes
6	Artificial Intelligence
6	Artificial Intelligence in Engineering
6	Artificial Intelligence in Medicine
6	Artificial Intelligence Report
6	Artificial Intelligence Review
6	Australian Computer Journal
6	Australian Journal of Information Systems
6	Behavior and Information Technology
6	Biomedical Engineering - Application, Basis, Communication
6	British Journal of Biomedical Science
6	British Telecommunications Engineering
6	Computational Intelligence
6	Computational Statistics and Data Analysis
6	Computer
6	Computer Aided Geometric Design
6	Computer And Biomedical Research
6	Computer Communications
6	Computer Communications Review
6	Computer Graphics
6	Computer Methods and Programs in Biomedicine
6	Computer System Science and Engineering
6	Computer Vision , Graphics and Images Processing
6	Computer Vision and Image Understanding
6	Computer-Aided Design
6	Computerized Medical Imaging and Graphics
6	Computers & Education
6	Computers & education, ISSN: 0360-1315, Impact factor 0.968, SSCI and SCI, (960423 學術委員會通過)
6	Computers and Artificial Intelligence
6	Computers and Graphics
6	Computers in Biology and Medicine
6	Computing
6	Computing Systems
6	Concurrency
6	Data and Knowledge Engineering
6	Data Base for Advances in Information Systems
6	Decision Support Systems (960528 學術委員會通過增列)
6	Distributed and Parallel Databases
6	Distributed Computing
6	Educational Technology & Society

6	Electronics Letters Computer Vision Image Analysis (ELCVIA)
6	Engineering Applications of Artificial Intelligence
6	Engineering Intelligent Systems For Electrical Engineering and Communication
6	European Journal of Information Systems
6	European Journal of Nuclear Medicine
6	European Journal of Radiology
6	European Radiology
6	Expert Systems
6	EXPERT SYSTEMS WITH APPLICATIONS (960423 學術委員會通過)
6	Fuzzy Sets and Systems
6	GeoInformatica
6	Graphical Models and Image Processing
6	IEE Electronic Letter
6	IEE Proceeding---Computers and Digital Techniques
6	IEE Software Engineering Journal
6	IEEE Annals of the History of Computing
6	IEEE Communications Letters
6	IEEE Computational Science and Engineering
6	IEEE Geoscience and Remote Sensing Letters
6	IEEE Journal of Oceanic Engineering
6	IEEE Photonics Technology Letters
6	IEEE Signal Processing Letters
6	IEEE Spectrum
6	IEEE Transaction on Broadcasting
6	IEEE Transactions on Affective Computing (ISSN:1949-3045) (100.04.20 學術委員會通過)
6	IEICE Trans. (Japan)
6	IET Information Security
6	IET Software
6	Image And Vision Computing
6	Informatica -An International Journal of Computing and Informatics
6	Information and Computation
6	Information and Management
6	Information and Software Technology
6	Information and Systems Engineering (960528 學術委員會通過停刊)
6	Information Processing and Management
6	Information Processing Letters
6	Information Science
6	Information Science Applications (960528 學術委員會通過停刊)
6	Information Systems
6	Information Systems Research

6	Information Technology and Libraries
6	Integrated Computer-Aided Engineering
6	Interface Processing Letters
6	International Journal of Ad Hoc and Ubiquitous Computing
6	International Journal of Applied Software Technology (IJAST) (960528 學術委員會通過停刊)
6	International Journal of Applied Systemic Studies
6	International Journal of Artificial Intelligence Tools (IJAIT)
6	International Journal of Bio-Medical Computing
6	International Journal of Clinical Monitoring and Computing
6	International Journal of Communication Systems
6	International Journal of Communication Systems(1051121 學術委員會通過增列)
6	International Journal of Computational Geometry and Applications
6	International Journal of Computational Intelligence and Application (IJCIA)
6	International Journal of Computer Applications in Technology
6	International Journal of Computer Mathematics
6	International Journal of Computer Mathematics with Applications
6	International Journal of Computer Vision
6	International Journal of Computers and Applications
6	International Journal of Cooperative Information Systems
6	International Journal of Distributed Sensor Networks (960423 學術委員會通過)
6	International Journal of Expert Systems
6	International Journal of Foundations of Computer Science
6	International Journal of Geographical Information Science
6	International Journal of High Speed Computing
6	International Journal of Human-Computer Interaction
6	International Journal of Imaging Systems and Technology
6	International Journal of Information Security
6	International Journal of Innovative Computing, Information and Control<電腦網路組 971020>
6	International Journal of Intelligent Control and Systems (IJICS)
6	International Journal of Intelligent Systems
6	International Journal of Medical Informatics
6	International Journal of Modeling and Simulation
6	International Journal of Network Management (John Wiley & Sons, Inc.)
6	International Journal of Neural Systems
6	International Journal of Parallel and Distributed Systems and Networks
6	International Journal of Pattern Recognition and Artificial Intelligence
6	International Journal of Reliability, Quality and Safety Engineering
6	International Journal of Remote Sensing



6	International Journal of Shape Modeling (IJSM)
6	International Journal of Simulation Modelling
6	International Journal of Software Engineering and Knowledge Engineering
6	International Journal of Supercomputer Applications and High Performance Computing
6	International Journal of Systems Science
6	International Journal of Uncertainty Fuzziness and Knowledge-Based Systems
6	International Journal of Visual Computing
6	International Symposium on Micro Architecture
6	Internet Computing
6	Int'l Journal of Parallel Programming
6	Journal of Advanced Computational Intelligence and Intelligent Informatics(JACIII) (990630 學術委員會通過刪除)
6	Journal of Applied Systems Studies (JASS)
6	Journal of Artificial Intelligence Research
6	Journal of Biomedical Informatics
6	Journal of Biomedical Optics (JBO)
6	Journal of Computational Science
6	Journal of Computational Science(1051121 學術委員會通過增列)
6	Journal of Computer and Software Engineering (960528 學術委員會通過停刊)
6	Journal of Computer and System Sciences (960528 學術委員會通過增列)
6	Journal of Computer and Systems Sciences International
6	Journal of Computer Assisted Learning, Impact Factor:0.566, SSCI, (960423 學術委員會通過)
6	Journal of Computing (960528 學術委員會通過停刊)
6	Journal of Digital Imaging
6	Journal of Electronic Imaging (JEI)
6	Journal of Experimental and Theoretical Artificial Intelligence
6	Journal of High Speed Networks
6	Journal of Information and Software Technology (960528 學術委員會通過增列)
6	Journal of Information Recording
6	Journal of Information Science
6	Journal of Information Systems
6	Journal of Information Technology
6	Journal of Intelligent and Fuzzy Systems
6	Journal of Intelligent and Robotic Systems
6	Journal of Intelligent Information Systems
6	Journal of Intelligent Manufacturing
6	Journal of Medical Engineering and Technology
6	Journal of Microcomputer Applications
6	Journal of Microlithography, Microfabrication, & Microsystems (JM3)

6	Journal of Modern Optics
6	Journal of Network and Computer Applications
6	Journal of Neuroimaging
6	Journal of Object-Oriented Programming (960528 學術委員會通過停刊)
6	Journal of Parallel Processing
6	Journal of Programming Languages
6	Journal of Robotic Systems
6	Journal of Scheduling (JS)
6	Journal of Software Maintenance and Evolution
6	Journal of Strategic Information Systems
6	Journal of Supercomputing
6	Journal of Systems Architecture
6	Journal of Systems Integration (960528 學術委員會通過停刊)
6	Journal of The American Medical Informatics Association
6	Journal of The American Society For Information Science
6	Journal of The Optical Society of America A-Optics Image Science and Vision
6	Journal of Visual Communication and Image Representation
6	Journal of Visual Languages and Computing
6	Journal of Visualization and Computer Animation
6	Journal on Applied Signal Processing
6	Journal Title: PHOTONIC NETWORK COMMUNICATIONS Publisher: SpringerLink Impact Factor (2005): 0.944
6	Knowledge-Based Systems
6	Library Software View
6	Machine Vision and Applications
6	Mathematical and Computer Modeling
6	Mathematical and Computers In Simulation
6	Medical Education
6	Medical Engineering and Physics
6	Medical Informatics
6	Methods of Information in Medicine
6	Micro System Journal
6	Microprocessing and Microprogramming
6	Microprocessors and Microsystems
6	Mini-Micro Systems
6	Mobile Networks and Applications
6	Multidimensional Systems and Signal Processing
6	Multimedia Systems
6	Network-Computation in Neural Systems
6	Networks
6	Neural Computation

6	Neural Computing and Applications
6	Neural Processing Letters
6	Neurocomputing
6	Optical Engineering
6	Optics Communications
6	Optimization Method and Software
6	Pattern Recognition Letters
6	Performance Evaluation
6	Proceedings of the IEEE
6	Program-Electronic Library and Information Systems
6	SIAM Journal on Applied Mathematics
6	SIAM Journal on Discrete Mathematics
6	SIAM Journal on Mathematical Analysis
6	SIAM Journal on Matrix Analysis and Applications
6	SIAM Journal on Numerical Analysis
6	SIAM Journal on Optimization
6	SIAM Journal on Scientific Computing
6	Signal Processing (EuropeSP)
6	Software Quality Journal
6	Software-Concepts and Tools (960528 學術委員會通過停刊)
6	Springer Journal of Electronic Testing (JETTA)
6	Statistical Analysis and Data Mining
6	Statistics and Computing
6	Statistics in Medicine
6	Telecommunication System ( System + s) (98.10.09 學術委員會通過)
6	The Journal of The Usenix Association
6	The Visual Computer
6	Ultrasonic Imaging
6	Wireless Communications and Mobile Computing (Communication + s) (98.10.09 學術委員會通過)
6	Wireless Personal Communications
6	World Wide Web-Internet and Web Information Systems
6	EURASIP journal on advances in signal processing
6	IEEE Access <b>【112.06.14 起新增】</b>
4	All Referred Journals not enlisted above 經審查機制之論文 Journal of Education Technology & Society, ISSN:1436-4522(online) and 1176-3647(print), impact factor 0.267, SSCI, (96.04.23 學術委員會通過)

\*期刊論文 Journal Papers 為國內外嚴格審查之期刊論文

(注意事項：本準則如有與本所博士班規則抵觸者，以本所博士班規則為準)

以下二點 **【112.09.20 學術委員會新增】** **【112.10.04 系務會議通過】**

- 一、若論文投稿時，該期刊尚未被JCR 剔除，則可列入畢業點數計算。請投稿學生於投稿前確認期刊尚在JCR清單，並儲存資料，以便未來可以提供當時投稿時尚在JCR清單的佐證。
- 二、「碩博士論文與有算點數論文的重複率」於會議上討論