

# 國立成功大學能源工程國際博士學位學程

## 博士候選人資格考核實施辦法

National Cheng Kung University

International Doctoral Degree Program on Energy Engineering

Implementation Regulations of Qualifying Examination for Doctoral Degree Candidate

106.10.05 一〇六學年第一學期第二次學術委員會議通過

107.01.19 一〇六學年度第一學期第三次系務會議修訂通過

### 一、一般說明：

依據業奉教育部 98.07.21 台高(二)字第 0980123268 號函准予修正備查。請參考「國立成功大學博士學位候選人資格核實施要點」。

I. These implementation regulations are made in accordance with “NCKU implementation Policy of Preliminary Qualification Examination of Doctoral Degree Candidate.”

### 二、資格考核實施辦法：

(一)資格考核之目的在於鑑定博士研究生之基本專業能力是否足以勝任獨立從事原創性之博士論文研究。

(二)學程主任為博士學位候選人資格考核之總召集人，請總召集人籌組資格考試委員（委員以本校教師為原則）辦理資格考試事宜。

### II. Implementation regulations of qualifying examination:

1. The purpose of qualifying examination is to testify the basic professional ability of Ph.D. students and to see if they are capable of doing original Ph.D. thesis research independently.
2. Academic program chairman shall be the head of Ph.D. qualifying examination committee, inviting committee members (NCKU faculty in principle) to administer qualifying examination.

三、本學程博士生應於入學後兩學年內（不含休學時間）通過博士學位資格考核。未依規定年限完成者，依本校實施要點之規定，由本學程通知註冊組勒令退學。博士班資格考核同時開放給學士班與碩士班學生報名參加，唯通過之學科僅得保留兩學年。

III. Ph.D. students shall pass the Ph.D. qualifying exam within two years after admission, excluding periods of leave of absence. Students can take the qualifying examination up to four times. Whoever fails to pass the qualifying exam will be expelled by NCKU Division of Registry according to NCKU regulations. Ph.D. qualifying exam is also opened to bachelor and master's students. The passed subject can be reserved for two years only.

### 四、資格考核學科筆試進行方式：

(一) 每學年提出十一至十三門學科，其中工程數學為共同學科。博士學位候選人於其中選試二科，各科通過一半（含）題數，視為通過該科，已通過科目可保留。通過資

格考核需累計通過二門學科筆試。

- (二) 資格考核學科筆試於每學年上、下學期各舉行一次；筆試時每門聘請至少 2 位命題委員組成考試委員會（原則上應試者之指導教授需迴避該次之命題），學程主任為總召集人。
- (三) 報名時間：上學期於 10 月最後一週、下學期於 3 月最後一週。請至學程辦公室送交：
  - (1) 博士學位候選人資格考核學科筆試報名表
  - (2) 博士研究生課業及論文指導教授認定通知書（已交認定書者免重複交）
- (四) 考試時間：上學期於 12 月最後一週舉行，下學期於 5 月最後一週舉行。
- (五) 考試科目：（由以下 11 至 13 門中任選 2 門）
  - 共同學科：(1) 工程數學
  - 流力組：(2) 流體力學、(3) 空氣動力學
  - 熱燃組：(4) 高等熱力學、(5) 燃燒理論、(6) 熱傳學
  - 結構組：(7) 彈性力學、(8) 結構動力學、(9) 複合材料力學
  - 控制組：(10) 自動控制、(11) 數位控制
  - 能源組：(12) 電力系統、(13) 能源材料

#### IV. Methods of qualifying written exam:

1. There will be 11-13 subjects for qualifying exam in each academic year. Each group will provide two to three subjects whereas Engineering Mathematics is the common subject. Ph.D. candidates shall select two subjects out of the provided subjects. If they answer half of the questions correctly, they are regarded as passing the subject, which can be reserved for two years. To pass the qualifying exam, Ph.D. candidates shall pass two subjects in total.
2. The qualifying written takes place once every semester. There will be two members who provide the exam questions to form a committee, and the Ph.D. student's advisor should avoid participating in the committee. The chairman will become the head of committee.
3. Registration time: Last week of October and March.  
Submit the following documents to the academic program office:
  - (1) Application form of Ph.D. Qualifying Written Examination
  - (2) Confirmation Form of Academic Advisor
4. Examination time: Last week of December and May.
5. Examination subjects: Choose two out of 11-13 subjects
  - Common subject: (1) Engineering Mathematics
  - Fluid and Aero Dynamics Group: (2) Fluid Mechanics (3) Aerodynamics
  - Combustion, Heat Transfer and Jet Propulsion Group: (4) Advanced Thermodynamics (5) Combustion Theory (6) Heat Conduction
  - Structure and Material Group: (7) Theory of Elasticity (8) Dynamics of Structure (9) Mechanics of Composite Material
  - Navigation and Control Group: (10) Automatic Control (11) Digital Control
  - Energy Group: (12) Power System (13) Energy Materials

五、博士論文提審口試須於博士候選人資格考核通過後一年內提出。

V. Ph.D. candidate should apply for dissertation verification within one year after passing the qualifying examination

六、 本辦法經航太系系務會議通過後實施，修訂時亦同。

VI. These regulations and the revisions are in effect and subject to the approval of Department Affairs Meetings.