臺灣大學土木工程學系研究所博士班資格考試科目表(108.9.23版)

Department of Civil Engineering Doctoral Candidate Qualifying Examination Subjects

1. 資格考試事宜請詳閱本所「博士學位候選人資格考試實施辦法」之規定。
2. For details please read the Department’s “Guidelines for the Implementation of Doctoral Candidate Qualifying Examination”.
3. 各學門筆試學科詳列如下表(請注意係考「學科」，範圍較單一科目為廣)
4. Written examination subjects for each Program are listed below. (Please note that the examination covers a wide range of subject matter, which requires the student to have an extensive knowledge of his/her field.)

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| 學門Program | 學　　科 Subjects | 學門Program | 學　　科 Subjects |
| 結 構 工 程Structural Engineering | 1. 結構動力學或高等混凝土學 Structural Dynamics or Advanced concrete Theory
2. 結構力學(含彈性力學與塑性力學)

Structural Mechanics (including Theory of Elasticity and Theory of Plasticity)1. 結構學(含高等結構學與有限元素法)

Structural Theory (including Advanced Structural Theory and Finite Element Method)**共考三科 Three subjects in all**(適用於106學年度前入學學生)(Applicable to students who entered the Program before fall 2017) | 大 地 工 程Geotechnical Engineering | 1. 土壤力學 Soil Mechanics
2. 岩石力學 Rock Mechanics
3. 土壤動力學或工程地質學 (任選一科)Soil Dynamics and Foundation Vibration or Engineering Geology (Select either one)

94.10.14修定 Revised on 14 October 2005 |
| 水 利 工 程Hydraulic Engineering | 1. 水利工程理論Hydraulic Engineering Theories
2. 水利工程方法論(包括工數、統計、數值與實驗)Hydraulic Engineering Methodologies (including Engineering Mathematics, Statistics, Numerical Analysis, and Experiments)
3. 水利工程應用 Hydraulic Engineering Applications

94.09.26修定 Revised on 26 September 2005 |
| 1. 結構動力學或高等混凝土學Structural Dynamics or Advanced Concrete Theory
2. 結構力學(含彈性力學與塑性力學)

Structural Mechanics (including Theory of Elasticity and Theory of Plasticity)1. 高等結構學或有限元素法Advanced Structural Theory or Finite Element Method

**共考三科 Three subjects in all** (適用於106學年度入學學生) (Applicable to students who entered the Program from fall 2017)106.10.3修定Revised on 3 October 2017 |
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| 交 通 工 程Transportation Engineering | 1. 運輸系統規劃Transportation System Planning
2. 運輸系統設計Transportation System Design
3. 運輸系統分析Transportation System Analysis
4. 研究方法 Research Methodology
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| 營 建 工 程與 管 理Construction Engineering and Management | 1. 工程專案管理 Project Management for Construction2. 營建財務 Construction Finance3. 計量實證研究方法論 Econometric and Empirical Research Methodology**以上皆為必考 All 3 subjects are required**  108.11.05修定 Revised on 5 November 2019 |
| 電腦輔助工程Computer-Aided Engineering (CAE) | 1. CAE應用 CAE Applications
2. CAE技術 CAE Technology(數值分析或工程資訊管理或電腦視覺技術或自動化技術)(Numerical Analysis, Engineering Information Management, Engineering Visualization, or Automation and Robotics)
3. CAE系統開發 CAE Systems Development(軟體系統分析與設計或專案管理或人機介面設計)(Software Systems Analysis and Design, Project Management, or User Interface Design)

98.05.05修定 Revised on 5 May 2009 |
| 測 量 及 空 間 資 訊Surveying and Geospatial Engineering | 1. 誤差理論 Theory of Error
2. 遙感探測 Remote Sensing
3. 數值攝影測量 Digital Photogrammetry
4. 衛星大地測量 Satellite Geodesy
5. 地理資訊系統 Geographic Information System

**以上5科選3科** **Select 3 of the 5**98.09.04修定 Revised on 04 Sept 2009 |

1. 申請時間:自即日起至 年 月 日止，申請時需附論文研究計劃光碟及成績單(可掃描後寄至tcshen@ntu.edu.tw)，申請表格請向系辦索取或至土木系網頁自行下載使用。

3. Application deadline:

To apply for the qualifying examination, please email your application form, research proposal, and transcripts to tcshen@ntu.edu.tw. The application form can be obtained from the Department Office or downloaded from the Department website (http://www.ce.ntu.edu.tw/文件下載/).

1. 筆試時間： 年 月 日（詳細時間地點另行通知）

4. Written examination date: (Examination location to be announced.)

五、 口試由各組資格考試委員會辦理。

5. The oral examination is organized by the Examination Committee of each respective program.