**土壤與水工程國際碩士學位學程 課程與核心能力之關聯檢核表**

|  | **能力指標與核心素養**  **Capabilities Index and**  **Core Accomplishment** | **對應課程**  **Related Courses** | **檢核機制**  **Evaluation** |
| --- | --- | --- | --- |
| 1. 研習水土相關專業知識與學習新知  Study related to soil and water engineering professional knowledge and learning | (1) 學習水土相關專業知識與學習新知 | (1) 碩士論文 Thesis  (2) 土木科技英文(1)  English in Civil Engineering Technology (1)  (3) 土木科技英文(2)  English in Civil Engineering Technology (2)  (4) 土木科技英文(3)  English in Civil Engineering Technology (3)  (5) 土壤力學行為  Behavior of Soil Mechanics  (6) 土壤沖蝕Soil Erosion  (7) 地理資訊系統  Geographic Information System  (8) 輸砂研究  Sediment transport Study  (9) 統計水文學  Statistical Hydrology  (10) 作物需水量專題  Special Topic on Crop Water Requirement  (11) 排水專題  Special Topic on Drainage  (12) 灌溉專題  Special Topic on Irrigation  (13) 最佳化應用  Optimization Application  (14) 專題研究(1)  Special Study(1)  (15) 專題研究(2)  Special Study(2)  (16) 水土保持特論  Special Topics on Soil and Water Conservation  (17) 田間灌溉實習(1)  Field Irrigation Practice(1)  (18) 田間灌溉實習(2)  Field Irrigation Practice(2) | 1.筆試及口頭發表  Written and Oral examinations  2.口頭發表  Oral Presentations  3.撰寫報告  Report |
| 2. 學習水土災害相關課程與實務應用  Learning courses of Soil and Water Disaster and practice application | (2) 學習水土災害相關知識與實務應用 | (1) 碩士論文 Thesis  (2) 土木科技英文(1)  English in Civil Engineering Technology (1)  (3) 土木科技英文(2)  English in Civil Engineering Technology (2)  (4) 土木科技英文(3)  English in Civil Engineering Technology (3)  (5) 土壤力學行為  Behavior of Soil Mechanics  (6) 土壤沖蝕Soil Erosion  (7) 地理資訊系統  Geographic Information System  (8) 輸砂研究  Sediment transport Study  (9) 統計水文學  Statistical Hydrology  (10) 作物需水量專題  Special Topic on Crop Water Requirement  (11) 排水專題  Special Topic on Drainage  (12) 灌溉專題  Special Topic on Irrigation  (13) 最佳化應用  Optimization Application  (14) 水土保持特論  Special Topics on Soil and Water Conservation  (15) 田間灌溉實習(1)  Field Irrigation Practice(1)  (16) 田間灌溉實習(2)  Field Irrigation Practice(2) | 1.筆試及口頭發表  Written and Oral examinations  2.口頭發表  Oral Presentations  3.撰寫報告  Report |
| 3. 具備執行整合與解決問題的能力  Demonstration of the ability to perform integration and solve problems | 獨立研究及解決問題 | (1) 碩士論文 Thesis  (2) 科技英文寫作  Technology English Writing  (3) 作物需水量專題  Special Topic on Crop Water Requirement  (4) 排水專題  Special Topic on Drainage  (5) 灌溉專題  Special Topic on Irrigation  (6) 永續發展趨勢  Trends in Sustainable Development  (7) 專題研究(1)  Special Study(1)  (8) 專題研究(2)  Special Study(2)  (9) 田間灌溉實習(1)  Field Irrigation Practice(1)  (10) 田間灌溉實習(2)  Field Irrigation Practice(2) |  |
| 4. 研究及撰寫論文及簡報能力  Demonstration of the ability to research, thesis written, and presentation | 獨立研究與報告撰寫 | (1) 碩士論文 Thesis  (2) 土木科技英文(1)  English in Civil Engineering Technology (1)  (3) 土木科技英文(2)  English in Civil Engineering Technology (2)  (4) 土木科技英文(3)  English in Civil Engineering Technology (3)  (5) 科技英文寫作  Technology English Writing  (6) 專題研究(1)  Special Study(1)  (7) 專題研究(2)  Special Study(2) | 1.筆試及口頭發表  Written and Oral examinations  2.口頭發表  Oral Presentations  3.撰寫報告  Report |