112學年度水資源及環境工程學系水資源工程組課程規畫表(112學年度入學新生適用) Division of Water Resources Engineering, Department of Water Resources and Environmental Engineering Curriculum Planning Chart for 112 academic year (2023-2024) incoming freshmen

| 1   | Curriculum Planning   |              |                              | 69 /                 |                              |                      |                              |                      | Apolina .                    | 68 /~                |  |   |
|---|---|--------------|------------------------------|----------------------|------------------------------|----------------------|------------------------------|----------------------|------------------------------|----------------------|--|---|
| 科目名稱 /subjects  |   | 學分<br>credit | 第1學年<br>1st academic<br>year |                      | 第2學年<br>2nd academic<br>year |                      | 第3學年<br>3rd academic<br>year |                      | 第4學年<br>4th academic<br>year |                      | 備註 Remarks   |   |
|   |   | s            | 上<br>1st<br>semester         | 下<br>2nd<br>semester | 上<br>1st<br>semester         | 下<br>2nd<br>semester | 上<br>1st<br>semester         | 下<br>2nd<br>semester | 上<br>1st<br>semester         | 下<br>2nd<br>semester |  |   |
|   | 外國語文學門(Q)<br>Foreign Languagae (Field Q)  | 8            | 2                            | 2                    | 2                            | 2                    | SCHICS LET                   | ocurco LTI           | acute a tel                  | somes tel            | Required I<br>freshman   | B、入2外又目出選<br>English in<br>year; elective<br>anguage in   |
| 基本知能課程12學分  | 中國語文能力表達<br>ABILITY OF EXPRESSING IN<br>SPOKEN AND WRITTEN CHINESE  | 2            |                              |                      |                              |                      |                              |                      |                              |                      | 語文表達<br>ABILITY OF   | F EXPRESSING  |
| 12 credits for general education curriculum   | 大學學習<br>LEARNING IN UNIVERSITY  | 1            | 1                            |                      |                              |                      |                              |                      |                              |                      | 學習與發展<br>Learning /<br>(Field N)   | 是學門(N)<br>And Development   |
|   | 社團學習與實作(K)<br>LEARNING AND PRACTICE OF CLUBS  | 1            |                              | 1                    |                              |                      |                              |                      |                              |                      | 課外活動與團隊發展<br>Extracuricular Activities<br>and Team-Ship Development<br>(Field K)                               |   |
| 通識核心課程14學分<br>14 credits for General  | AI與程式語言<br>AI and Programmiing Language   | 1            | 1                            |                      |                              |                      |                              |                      |                              |                      |  |   |
| Education Curriculum  | 探索永續  | 1            | 1                            |                      |                              |                      |                              |                      |                              |                      |  |   |
|   | Exploring Sustainabiltiy<br>文學經典學門(L)<br>Classics In World Literature<br>(Field L)  | 2            |                              |                      |                              |                      |                              |                      |                              |                      | 人文領域<br>至少2學分  | 每學門至多修習2<br>科4學分<br>Students may<br>take up to 2<br>courses (4<br>credits) in each<br>academic field. |
|   | 歷史與文化學門(P)<br>History And Culture (Field P)   | 2            |                              |                      |                              |                      |                              |                      |                              |                      | At least<br>2  |   |
|   | 哲學與宗教學門(V)<br>Philosophy and Religion (Field<br>V)  | 2            |                              |                      |                              |                      |                              |                      |                              |                      | credits<br>in the<br>Humaniti<br>es<br>field.<br>社會領域<br>至少2學分<br>At least<br>2<br>credits<br>in the<br>Social |   |
|   | 藝術欣賞與創作學門(M)<br>Arts Appreciation and<br>Invention (Field M)  | 2            |                              |                      |                              |                      |                              |                      |                              |                      |  |   |
|   | 全球視野學門(T)<br>Global Outlook (Field T)   | 2            |                              |                      |                              |                      |                              |                      |                              |                      |  |   |
|   | 未來學學門®<br>Futures Studies (Field R)   | 2            |                              |                      |                              |                      |                              |                      |                              |                      |  |   |
|   | 社會分析學門(W)<br>Social Analysis (Field W)  | 2            |                              |                      |                              |                      |                              |                      |                              |                      |  |   |
|   | 公民社會及參與學門(S) Civil Society And Participation (Field S)  | 2            |                              |                      |                              |                      |                              |                      |                              |                      |  |   |
|   | 章訊教育學門(0) Information & Computer Education (Field 0) *商管學院學生請另詢所屬學系 Students of the College of Business Management, please consult your respective departments. | 2            |                              |                      |                              |                      |                              |                      |                              |                      |  |   |
|   | 全球科技革命學門(Z)<br>Global Technology Revolution<br>(Field Z)  | 2            |                              |                      |                              |                      |                              |                      |                              |                      |  |   |
|   | 自然科學學門(U)<br>Natural Sciences (Field U)   | 2            |                              |                      |                              |                      |                              |                      |                              |                      |  |   |
|   | 體育<br>Physical Education  | 0            | 0                            | 0                    | 0                            | 0                    |                              |                      |                              |                      |  |   |
| 其他課程 other subjects  が科技 ALL-OUT DEFENSE EDUCATION MILITARY TRAINING(I)-NATIONAL DEFENSE TECHNOLOGY |   | 0            |                              |                      |                              |                      |                              |                      |                              |                      |  | 學期0學分<br>r; zero credits<br>le semester.  |
| 校園與社區服務學習<br>CAMPUS AND COMMUNITY SERVICE-LEARNING  |   | 0            | 0                            | 0                    |                              |                      |                              |                      |                              |                      |  |   |
| ■本系必修課程:72學分<br>Required Courses:72   | 普通物理<br>GENERAL PHYSICS   | 4            | 2                            | 2                    |                              |                      |                              |                      |                              |                      |  |   |
| credits   | 微積分<br>CALCULUS   | 3            | 3                            |                      |                              |                      |                              |                      |                              |                      |  |   |
|   | 水環境生態學<br>WATERSHED ECOLOGY AND THE<br>ENVIRONMENT  | 2            | 2                            |                      |                              |                      |                              |                      |                              |                      |  |   |
|   | 環境化學<br>ENVIRONMENTAL CHEMISTRY   | 2            | 2                            |                      |                              |                      |                              |                      |                              |                      |  |   |
|   | 水資源工程概論<br>INTRODUCTION OF WATER<br>RESOURCES ENGINEERING   | 1            | 1                            |                      |                              |                      |                              |                      |                              |                      |  |   |
|   | 基礎工程數學<br>BASIC ENGINEERING MATHEMATICS   | 2            |                              | 2                    |                              |                      |                              |                      |                              |                      |  |   |

| 「This course is offt the Department of Artificial Intellig 中等水文學 INTERMEDIATE HYDROLOGY 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3   |   |                             |   |   |   |   |   |   |   |   |  |
|---|---|-----------------------------|---|---|---|---|---|---|---|---|--|
| Terest  |   |                             | 3 |   | 3 |   |   |   |   |   |  |
| 1   |   | 工程統計                        | 3 |   | 3 |   |   |   |   |   |  |
| TOTAL DISTRICT   TO    |   | 水文學                         | 3 |   | 3 |   |   |   |   |   |  |
| PACE     |   |                             |   |   |   | 2 | 2 |   |   |   |  |
| ### PRINCES OF MANUAL STATE OF MEDITION 1   |   |                             |   |   |   |   | 3 |   |   |   |  |
| STREAMIN C MATERIALS   3   3   3   3   3   3   4   4   4   4  |   | FLUID MECHANICS(I)          | 3 |   |   | 3 |   |   |   |   |  |
| PRACTICE A SURVEY OF INTRODUCTOR   19 (27   |   | STRENGTH OF MATERIALS       | 3 |   |   | 3 |   |   |   |   |  |
| PROPADE   PRODUCTION   1  |   | 7 7 7 7 7 7 7 7             | 2 |   |   | 2 |   |   |   |   |  |
|   |   |                             | 3 |   |   |   | 3 |   |   |   |  |
| 京田J PMEANICS (11)   3   3   3   3   3   3   3   3   3   |   | 結構學                         | 3 |   |   |   | 3 |   |   |   |  |
| PALID MELNONICKI   1  |   | 流體力學(二)                     | 3 |   |   |   | 3 |   |   |   |  |
| ALIE ON IS NOW!   ALIE MATERIALS   1  |   |                             |   |   |   |   |   |   |   |   |  |
| REALD MACHINICS LAB.  |   |                             |   |   |   |   | 2 |   |   |   | 實驗課程   |
| MADERICAL METROD   3  |   | FLUID MECHANICS LAB.        | 1 |   |   |   |   | 1 |   |   |  |
| SOLL BECANNICS   3   3   3   3   3   3   3   3   3  |   | NUMERICAL METHOD            | 3 |   |   |   |   | 3 |   |   |  |
| INTRALICS ASD OPEN CHANNES   3   3   3   3   3   3   3   3   3  |   | SOIL MECHANICS              | 3 |   |   |   |   | 3 |   |   |  |
| MATER RESURES ENGINEERING(1)   3  |   |                             | 3 |   |   |   |   | 3 |   |   |  |
| 日本語   日本    |   |                             | 3 |   |   |   |   | 3 |   |   |  |
| EMBOTATORY COURSE   ************************************  |   | 渠道水力學實驗                     |   |   |   |   |   |   | 1 |   | 實驗課程   |
| WATER RESURECES PLANNING   7   7   7   7   7   7   7   7   7  |   |                             | 1 |   |   |   |   |   | 1 |   | Laboratory course  |
| FLOOD ENGINEERING   3   3   3   3   4   4   4   4   4   4   |   |                             | 3 |   |   |   |   |   | 3 |   |  |
| 專題實作<br>PRACTICE OF PROJECTS         2 </td <td></td> <td></td> <td>3</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>3</td> <td></td> <td></td>   |   |                             | 3 |   |   |   |   |   | 3 |   |  |
| 世野京和在工程上之應用   |   | 專題實作                        | 2 |   |   |   |   |   | 2 |   |  |
| APPLICATION  工程材料学 ENGINEERING MATERIALS  工程材料質解 ENGINEERING MATERIALS  工程が科質解  NOLITY ANALYSIS  ** 大質療験 ** MATER COLLITY ANALYSIS  ** 大質療験論 ** INTRODUCTION TO  INTRODUCTION TO  INTRODUCTION TO  INTRODUCTION TO  STREEPING GRAPHICS  ** TEURIPE THE STREEPING GR  |   | 地理資訊在工程上之應用                 |   |   |   |   |   |   |   |   |  |
| ENGINEERING MATERIALS   |   |                             | 2 |   |   |   |   |   |   | 2 |  |
| T. 程材料實驗   ENGINEERING MATERIALS   1  |   |                             | 2 | 2 |   |   |   |   |   |   |  |
| LABORATIONY TARGET PROJECTION TO TO TO TO THE PROJECTION TO TO TO TO THE PROJECTION TO TO THE PROJECTION TO TO THE PROJECTION TO TO THE PROJECTION TO TO TO THE PROJECTION TO TO THE PROJECTION TO TO THE PROJECTION TO TO TO THE PROJECTION TO TO TO THE PROJECTION TO TO TO TO THE PROJECTION TO TO TO TO TO TO THE PROJECTION TO T   |   | 工程材料實驗                      | 1 |   | 1 |   |   |   |   |   |  |
| BEGINEERING ECONOMICS  水質寶驗 WATER CUALITY ANALYSIS  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1   |   | LABORATORY                  |   |   |   |   |   |   |   |   |  |
| WATER QUALITY ANALYSIS  **********************************  |   | ENGINEERING ECONOMICS       | 2 |   | 2 |   |   |   |   |   | <b>李</b> 脸细和   |
| 「This course is offt the Department of Artificial Intellig 中等水文學 INTERMEDIATE HYDROLOGY 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3   |   |                             | 1 |   |   | 1 |   |   |   |   | Laboratory course  |
| HTDROIN+ORMATICS 中学木文學 INTERMEDIATE HYDROLOGY TEMESTING GRAPHICS  ENGINEERING GROUNDWATER AND SOIL POLLUTION 4  ENGINEERING 3  ENGINEERING 11)  ① WATER SEOURCES  ENGINEERING 11)  ② WATER RESOURCES  ENGINEERING 11)  ② WATER RESOURCES  ENGINEERING 11)  ② WATER SOUCCATIONAL 2  |   | INTRODUCTION TO             | 3 |   |   | 3 |   |   |   |   | 這門課開設於人工智慧學系<br>This course is offered by<br>the Department of |
| INTERMEDIATE HYDROLOGY TERMEDIATE HYDROLOGY TERMEDIATE HYDROLOGY TERMEDIATE HYDROLOGY TERMEDIATE HYDROLOGY TERMEDIATE HYDROLOGY TERMEDIATE HYDROLOGY THE MANAGEMENT TO SMART WATER This course is offer the Department of the Department of spage fresh introduction to practice of projects Take ### This course is offer the Department of spage fresh introduction to practice of projects Take ### This course is offer the Department of spage fresh introduction to practice of the Department of spage fresh introduction of projects Take ### This course is offer the Department of spage fresh introduction of spage fresh introduction of the Division of Environmental Engineering, Department of spage fresh interpretation of the Division of Environmental Engineering, Department of spage fresh interpretation of the Division of Environmental Engineering, Department of spage fresh interpretation of the Division of Environment of |   |                             |   |   |   |   |   |   |   |   | Artificial Intelligence.                                       |
| BOGINEERING GRAPHICS  The state of the Department of Significant Of Sig |   | INTERMEDIATE HYDROLOGY      | 3 |   |   |   | 3 |   |   |   |  |
| 智慧水資源管理根調 INTRODUCTION TO SMART WATER 3 3 3 Introduction TO SMART WATER 5 Introduction TO SMART WATER 5 Introduction TO SMART WATER 5 Introduction TO PRACTICE OF 5 Introduction To PRACT |   |                             | 2 |   |   |   | 2 |   |   |   |  |
| INTRODUCTION TO PRACTICE OF PROJECTS  TREVETS  TREVETS  ENGINEERING GEOLOGY  地下水及土壤污染 GROUNDWATER AND SOIL POLLUTION 4  基礎工程 FOUNDATION ENGINEERING  AND SOIL POLLUTION 3  FOUNDATION ENGINEERING  WATER SUPPLY ENGINEERING  WATER SUPPLY ENGINEERING  WATER SUPPLY ENGINEERING  WATER RESOURCES  THIS COURSE IS OFF THE PROJECT OF THE PROJECT | n | INTRODUCTION TO SMART WATER | 3 |   |   |   | 3 |   |   |   | 這門課開設於人工智慧學系<br>This course is offered by<br>the Department of |
| 工程地質學 ENGINEERING GEOLOGY 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2   |   | INTRODUCTION TO PRACTICE OF | 2 |   |   |   |   | 2 |   |   |  |
| 地下水及土壤污染 GROUNDWATER AND SOIL POLLUTION 4 基礎工程 POUNDATION ENGINEERING 3  ABOUND AND SOIL POLLUTION 3  BEINFORCED CONCRETE 3  BEINFORCED  |   |                             | 2 |   |   |   |   | 2 |   |   |  |
| 基礎工程  |   | 地下水及土壤污染                    | 4 |   |   |   |   | 4 |   |   |  |
| FOUNDATION ENGINEERING 鋼筋混凝土 3 REINFORCED CONCRETE 3 参示工程 WATER SUPPLY ENGINEERING 3 WATER SUPPLY ENGINEERING 3  ****  ***  **  **  **  **  **  **  *   |   | 基礎工程                        | 3 |   |   |   |   |   | 3 |   |  |
| EINFORCED CONCRETE  salphapping and state of the distribution of Environmental Engineering, Departure of Water Resources  water Resources  salphapping and This course is offer the Division of Environmental Engineering, Departure of Water Resources  salphapping and Water Resources  salphapping and Water Resources  as a salphapping and Water Resources  salphapping and Water Resources  as a salphapping and Water Resources  salphapping and Water Resources  as a salphapping and Water Res |   |                             |   |   |   |   |   |   |   |   |  |
| 給水工程 WATER SUPPLY ENGINEERING  3  This course is offer the Division of Environmental Engineering, Departure of Water Resources.  水資源工程(二) WATER RESOURCES 3  ENGINEERING(11) 企業實習 PRACTICUM IN EDUCATIONAL 2  This course is offer the Division of Environmental Engineering, Departure of Water Resources.   |   | REINFORCED CONCRETE         | 3 |   |   |   |   |   | 3 |   | 這門課開設於水環系環境工程  |
| WATER RESOURCES 3 ENGINEERING(II) 企業實習 PRACTICUM IN EDUCATIONAL 2 2   |   |                             | 3 |   |   |   |   |   | 3 |   | This course is offered by the Division of                      |
| PRACTICUM IN EDUCATIONAL 2 2  |   | WATER RESOURCES             | 3 |   |   |   |   |   |   | 3 |  |
| TECHNOLOGY  |   |                             | 2 |   |   |   |   |   |   | 2 |  |

■本系系遷修課程:至少須 **610**學分以上。 Department Elective Courses: A minimum of 10 credits must be completed.

附註: 系選修課程之開設科目,將 依據本校規定可開課學分數 開課。不是每個科目都會開 課。

Note:
The elective courses
offered by the department
will be arranged based on
the number of credits
permitted under the
university's
regulations. Not all
listed courses will
necessarily be offered.

| 灌溉及排水工程<br>IRRIGATION AND DRAINAGE<br>ENGINEERING   | 3 |  |  |  | 3 |   |  |
|---|---|--|--|--|---|---|--|
| 水土保持工程<br>SOIL AND WATER RESERVATION<br>ENGINEERING | 2 |  |  |  | 2 |   |  |
| 污水工程<br>WASTEWATER ENGINEERING                      | 3 |  |  |  | 3 |   | 短 Jakunbyが、小泉水泉現上任<br>組<br>打his course is offered by<br>the Division of<br>Environmental<br>Engineeriing, Department<br>of Water Resources and |
| 水利法規<br>HYDRAULIC REGULATIONS                       | 2 |  |  |  |   | 2 | HAVI KARMARYAT ERATRASPIRA   |
| 海岸工程<br>COASTAL ENGINEERING                         | 3 |  |  |  |   | 3 |  |
| 水利工程應用軟體<br>HYDRAULIC MODELING SOFTWARES            | 3 |  |  |  |   | 3 |  |

(1)必修科目總學分數:98學分(含通識教育課程26學分) (1)Total Credits for Required Courses: 98 credits (including 26 credits in General Education courses)

(2)最低應修本系運修科目總學分數:10學分 (2)Minimum Credits Required for Departmental Elective Courses: 10 credits

(3)其他選修總學分數:20學分 (3)Minimum Number of Credits Required for Other Elective Courses: 20credits

畢業總學分數:128學分 Total Number of Credits Required for Graduation: 128 credits