**輔仁大學 應用科學與工程研究所 課程綱要表**

Fu Jen Catholic University

Graduate Institute of Applied Science and Engineering

Curriculum

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| 學年度  Academic Year |  | 學期  Term | | □第一學期 Fall semester  □第二學期 Spring semester | | | | | | |
| 授課教師  Main instructor | (姓名)  name | | | | 年級  Grade | | □博士班 年級  Doctoral class grade | | | |
| (職員代碼)  Staff code | | | |
| 課程名稱  Course Title | 中文  Chinese | |  | | | | | | 學分  Credit |  |
| 英文  English | |  | | | | | | □ 必修 Required subject  □ 選修  Elective subject | |
| 課程語言  Classroom Language | □中文Chinese  □中英文Chinese&English  □英文English | | | | | 教材語言  Course Material Language | | □中文Chinese  □中英文Chinese&English  □英文English | | |
| 課程學習目標  Objectives |  | | | | | | | | | |
| 課程教材  Teaching Materials |  | | | | | | | | | |
| 教科書  Textbook |  | | | | | | | | | |
| 參考書目  Reference |  | | | | | | | | | |
| 教育目標  Educational Goals | □專精學術研究 □培養跨領域知識 □拓展國際視野  Specialize in academic research Develop cross-domain knowledge Expand international horizons | | | | | | | | | |
| 與核心能力關聯 Core Competencies | □獨立研究能力 □思考邏輯能力 □外語溝通能力  Independent Research Ability Logical ability Foreign Language Communication Skills | | | | | | | | | |
| 與核心行為關聯  Core Behavior | □問題分析與解決 □創新應變與積極行動 □學習專業知識的提升  Problem Analysis And Solution Innovative Response And Positive Action Learning To Improve Professional Knowledge | | | | | | | | | |

**■ 基本素養 Basic**

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| **項目** | **項目描述** | **關聯性** |
| 中文  Chinese | 以文字書寫與表達為形式，並以題旨、結構、論述及文字等四項指標作為標準依據。  It takes the form of written writing and expression, and uses four indicators such as topic, structure, discussion and text as the standard basis. | |  |  |  | | --- | --- | --- | | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |  |  | |
| 英文  English | 具備文字表達能力及閱讀理解能力。  Have written expression and reading comprehension skills. | |  |  |  |  | | --- | --- | --- | --- | | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the | □無關聯性  □間接相關  □直接相關 |  |  | |
| 資訊  Computer Skills | 具備下列四項資訊能力標準之一者： 1.電腦與網路基本知識及技能 2.製作文書、簡報及試算表 3.多媒體應用能力 4.資訊安全素養  Those who possess one of the following four information competency standards: 1. Basic computer and network knowledge and skills 2. Production of documents, presentations and spreadsheets 3. Multimedia application ability 4. Information security literacy | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |

**■技能與態度 Skills**

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| **項目** | **項目描述** | **關聯性** |
| 閱讀理解  Reading Comprehension | 理解文件或文章中文句與段落的意義  Understanding written sentences and paragraphs in work related documents. | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |
| 積極傾聽  Active Listening | 當他人說話時能注意聆聽，了解重點並適時發問  Giving full attention to what other people are saying, taking time to understand the points being made, asking questions as appropriate, and not interrupting at inappropriate times. | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |
| 文字表達  Writing | 透過書寫和他人達到有效溝通Communicating effectively in writing as appropriate for the needs of the audience. | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |
| 口語表達  Speaking | 透過口語有效的傳達訊息Talking to others to convey information effectively. | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |
| 數學  Mathematics | 用數學解決問題Using mathematics to solve problems. | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |
| 科學  Science | 運用科學規則和方法解決問題  Using scientific rules and methods to solve problems. | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |
| 批判思考  Critical Thinking | 運用邏輯與推理，評價不同觀點、方案與取向的優缺點  Using logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions or approaches to problems. | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |
| 主動學習  Active Learning | 主動了解某些新資訊在解決問題或做決策時的用途  Understanding the implications of new information for both current and future problem-solving and decision-making. | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |
| 學習策略  Learning Strategies | 當學習或教導新事物時，選擇適當的方法和程序  Selecting and using training/instructional methods and procedures appropriate for the situation when learning or teaching new things. | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |
| 人際覺察  Social Perceptiveness | 察覺他人的反應並理解其原因  Being aware of others' reactions and understanding why they react as they do. | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |
| 合作  Coordination | 為完成任務，在團隊中調整自己以配合他人行動  Adjusting actions in relation to others' actions. | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |
| 說服  Persuasion | 說服他人改變想法或行為Persuading others to change their minds or behavior. | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |
| 協調  Negotiation | 在討論會議中，協商各種不同意見使大家達到共識  Bringing others together and trying to reconcile differences. | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |
| 解決複雜問題  Complex Problem Solving | 針對複雜問題認定其性質，搜尋並整理相關資料，發展與評估可行方案並付諸執行Identifying complex problems and reviewing related information to develop and evaluate options and implement solutions. | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |
| 設備選用  Equipment Selection | 挑選適當的工具和設備以完成工作  Determining the kind of tools and equipment needed to do a job. | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |
| 設備安裝  Installation | 安裝設備、機器、線路或程式  Installing equipment, machines, wiring, or programs to meet specifications. | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |
| 程式撰寫與應用  Programming | 電腦程式之撰寫與應用  Writing computer programs for various purposes. | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |
| 設備監控  Operation Monitoring | 監控儀錶或其他指標，使設備正常運作  Watching gauges, dials, or other indicators to make sure a machine is working properly. | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |
| 儀器操控  Operation and Control | 操作、控制儀器或系統的運作  Controlling operations of equipment or systems. | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |
| 偵除錯誤  Troubleshooting | 發現操作錯誤的原因，並解決問題  Determining causes of operating errors and deciding what to do about it. | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |
| 創意力  Fluency of Ideas | 能流暢地進行分殊思考、產生點子之認知能力  The ability to come up with a number of ideas about a topic (the number of ideas is important, not their quality, correctness, or creativity). | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |
| 原創力  Originality | 在面對特定領域、真實情境或實際問題時，能提出新穎與原創方案之認知能力  The ability to come up with unusual or clever ideas about a given topic or situation, or to develop creative ways to solve a problem. | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |
| 實作能力  practical ability | 能將理論應用於實務問題的解決  Put theoretical ideas into practice and to solve problems. | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |

**■ 知識 Knowledge**

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| **項目** | **項目描述** | **關聯性** |
| 數學  Mathematics | 關於算術、代數、幾何、微積分、統計及其應用的知識  Knowledge of arithmetic, algebra, geometry, calculus, statistics, and their applications. | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |
| 物理  Physics | 關於物理原理與定律的知識，包括在流體、物質、大氣力學與力學、電學、原子、次原子等之結構和過程等的了解與應用  Knowledge and prediction of physical principles, laws, their interrelationships, and applications to understanding fluid, material, and atmospheric dynamics, and mechanical, electrical, atomic and sub- atomic structures and processes. | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |
| 化學  Chemistry | 關於化學組成、結構、物性、化學過程與轉化等知識，包括使用化學藥品及化學作用、危險標誌、生產技術和廢棄物處理等  Knowledge of the chemical composition, structure, and properties of substances and of the chemical processes and transformations that they undergo. This includes uses of chemicals and their interactions, danger signs, production techniques, and disposal methods. | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |
| 資訊與電子  Computers and Electronics | 關於電路板、處理器、晶片、電子設備、電腦軟硬體及程式的知識  Knowledge of circuit boards, processors, chips, electronic equipment, and computer hardware and software, including applications and programming. | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |
| 網路與電信  Telecommunications | 關於播放、轉換、控制及操作電腦網路與電信系統等知識  Knowledge of transmission, broadcasting, switching, control, and operation of telecommunications systems. | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |
| 工程與科技  Engineering and Technology | 關於工程科學與技術的實際應用知識，包括應用原理、技術、過程與設備，設計與生產各種物品與勞務  Knowledge of the practical application of engineering science and technology. This includes applying principles, techniques, procedures, and equipment to the design and production of various goods and services. | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |
| 生命科學  Biology | 關於植物、動物等有機體的組織、細胞、功能、相互依存性及其彼此間與環境相互作用的知識  Knowledge of plant and animal organisms, their tissues, cells, functions, interdependencies, and interactions with each other and the environment. | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |
| 醫學  Medicine and Dentistry | 關於診斷、疾病治療、殘障等所需資訊和技術等知識，包括症狀、治療方式、藥物性質及其與人體相互作用、預防保健措施等  Knowledge of the information and techniques needed to diagnose and treat human injuries, diseases, and deformities. This includes symptoms, treatment alternatives, drug properties and interactions, and preventive health-care measures. | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |

**■永續發展目標**

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| **項目** | **項目描述** | **關聯性** |
| 終結貧窮  No Poverty | 消除各地一切形式的貧窮End poverty in all its forms everywhere | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |
| 消除飢餓  Zero Hunger | 確保糧食安全，消除飢餓，促進永續農業  Zero Hunger | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |
| 健康與福祉  Good Health and Well-Being | 確保及促進各年齡層健康生活與福祉Ensure healthy lives and promote well-being for all at all ages | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |
| 優質教育  Quality Education | 確保有教無類、公平以及高品質的教育，及提倡終身學習  Quality Education | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |
| 性別平權  Gender Equality | 實現性別平等，並賦予婦女權力  Achieve gender equality and empower all women and girls | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |
| 淨水及衛生  Clean Water and Sanitation | 確保所有人都能享有水、衛生及其永續管理  Ensure access to water and sanitation for all | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |
| 可負擔的潔淨能源  Affordable and Clean Energy | 確保所有的人都可取得負擔得起、可靠、永續及現代的能源Ensure access to affordable, reliable, sustainable and modern energy | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |
| 合適的工作及經濟成長  Decent Work and Economic Growth | 促進包容且永續的經濟成長，讓每個人都有一份好工作  Promote inclusive and sustainable economic growth, employment and decent work for all | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |
| 工業化、創新及基礎建設  Industry, Innovation and Infrastructure | 建立具有韌性的基礎建設，促進包容且永續的工業，並加速創新  Build resilient infrastructure, promote sustainable industrialization and foster innovation | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |
| 減少不平等  Reduced Inequalities | 減少國內及國家間的不平等  Reduce inequality within and among countries | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |
| 永續城鄉  Sustainable Cities and Communities | 建構具包容、安全、韌性及永續特質的城市與鄉村  Make cities inclusive, safe, resilient and sustainable | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |
| 責任消費及生產  Responsible Consumption and Production | 促進綠色經濟，確保永續消費及生產模式  Ensure sustainable consumption and production patterns | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |
| 氣候行動  Climate Action | 完備減緩調適行動，以因應氣候變遷及其影響  Take urgent action to combat climate change and its impacts | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |
| 保育海洋生態  Life Below Water | 保育及永續利用海洋生態系，以確保生物多樣性並防止海洋環境劣化  Conserve and sustainably use the oceans, seas and marine resources | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |
| 保育陸域生態  Life on Land | 保育及永續利用陸域生態系，確保生物多樣性並防止土地劣化  Sustainably manage forests, combat desertification, halt and reverse land degradation, halt biodiversity loss | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |
| 和平、正義及健全制度  Peace, Justice and Strong Institutions | 促進和平多元的社會，確保司法平等，建立具公信力且廣納民意的體系  Promote just, peaceful and inclusive societies | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |
| 多元夥伴關係  Partnerships for the Goals | 建立多元夥伴關係，協力促進永續願景  Revitalize the global partnership for sustainable development | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |

**■創新教學特色**

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| **項目** | **項目描述** | **關聯性** |
| 程式設計融入  Program integration | 1.課程內容或部分單元融入「程式設計或運算思維」 2.課程中學生有從事撰寫程式之活動或作業 3.教學融入部分程式設計於跨域應用，增進學生(不限資訊或非資訊學生)對電腦邏輯運算思維及程式語言之基本認知及能融入專業，以面對新創經濟或人工智慧的挑戰1. The course content or part of the modules integrate “Programming or Computational thinking”. 2. During the course, students will engage in programming exercises and assignments. 3. The curriculum incorporates elements of programming in cross-domain collaborations to enhance students’ (of all levels) basic knowledge of computational thinking and programming languages that can be applied professionally, so that they can face the challenges of the new creative economy and artificial intelligence. | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |
| 健康醫療  Health and medical care | 1.將「健康醫療」與相關課程做連結  2.課程內容或部分單元融入「健康醫療」1. Linking“Health and medical care” to related courses. 2. Integrate the course content or some of the modules into “Health and medical care”. | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |
| 自主學習  Independent learning | 課程中融入「自主學習」循環模式進行  Courses are conducted in an “independent learning” format. | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |
| 產業成果導向  Industry-Academia Cooperation—result orientation | 課程內容與產業需求做對接，發展「企業出題，學生解題」的學用合一，提升學生 學習成就感，學以致用  The course content is designed based on the needs of the industry and focuses on developing a sense of applied learning, where“the industry raises issues and students solve them”. In addition to providing a sense of accomplishment, this allows students to apply what they learned. | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |
| 跨域協作  Cross-domain collaboration | 課程中透過不同專業領域之教師與學生，共同合作並產出具體成果，讓不同的專業領域教師及學生能夠跨領域彼此合作與學習During the course, instructors and students from different disciplines work together to produce tangible results, allowing instructors and students from different areas of expertise to collaborate and learn from people in different fields. | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |
| 創意設計  Creative design | 課程內容或單元融入創意設計、跨領域設計思考，課程透過講座、工作坊、產學合 作培養學生多元創造力，落實學用合一The course content or modules integrate creative design and cross-disciplinary design thinking, and the course cultivates students’ diversified creativity through lectures, workshops, and industry-academia cooperation, thereby allowing students to apply what they learned. | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |
| 創新創業  Innovative entrepreneurship | 課程內容或部分單元與創新創業相關，並搭配實務操作有產品或服務產出The course content or part of the modules is related to innovation and entrepreneurship, and combines practical operation with the output of products or services. | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |
| 社會實踐  Social practice | 1.課程中將社會參與的觀點、理念與實踐行動體現融入其中，藉以涵養學生社會責任的思維與意識 2.透過學生的主修專業，安排學生從事相關的社會參與活動 3.以社會議題為導向，以討論形式，讓學生共同探討並據以付諸行動1. The course incorporates the viewpoints, concepts, and practical application of social participation in order to cultivate students’ thinking and awareness of social responsibility. 2. Based on their majors, students are assigned relevant social participations activities to engage in. 3. Using social issues as a guideline, students are implored to explore and act on these issues through discussion. | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |
| 地方創生  Local creation | 透過課程內容或單元主題，安排師生與地方進行公共溝通，藉由議題理念說明、知識或技術交流等形式，提升學生對真實問題的洞察及敘事能力，帶動大眾參與區域發展議題討論，建構區域發展特色Through the course content or modular themes, instructors and students are assigned to communicate with the local community where they learn to explain issues, and can exchange knowledge and technology, enhancing students’ insight and reporting skills on real-life issues, engaging the public in discussions regarding issues in regional development, and creating an identity for the regional development. | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |
| 前瞻科技應用  Forward-looking technology application | 1.課程內容或部分單元以科技為基礎，結合 5G、物聯網、AI人工智慧及智慧聯網等相關技術，建置以顯示科技為主的創新應用校園示範場域，跨域創新設計虛實融合、無所不在的人機互動介面，落實校園智慧生活應用 2.課程內容或部分單元融入科技相關課程教學或校園跨領域創新應用與技術開發，提供可操作之實作或實證，協力培育前瞻顯示科技跨域應用人才及孕育產業升級與創新能量  1. The course content or part of the modules are based on technology, combining 5G, the Internet of Things, Artificial Intelligence and smart networking, as well as other related technologies, to build an on-campus demonstration area for innovative applications. There, cross-domain innovative designs merge the online and the offline world and provide an interactive human-computer interface to create a smart campus-lifestyle. 2. The course content or part of the modules are integrated into the teaching of technology-related courses and the development of innovative cross-disciplinary applications and technologies on campus, providing hands-on practice and demonstrations to help nurture talents for the cross-disciplinary application of forward-looking display technologies, while also fostering industrial upgrading and innovative technology. | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |
| 國際參與  International participation | 課程內容或部分單元中融入國際思維，學習探索跨國界的問題與議題以及生態、文化、經濟、政治和科技等跨系統間相互連結的關係，培養學生具備國際參與的國際意識、國際現況認知、跨文化認知與全球動態認識等能力The course content or part of the modules integrate an international mindset, teaching students to explore cross-border issues, showcase the interconnectedness of ecological, cultural, economic, political and technological systems, and are aimed at developing students’ global awareness of international participation as well as their understanding of the current situation, their cross-cultural awareness and understanding of global dynamics. | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |
| 數位溝通  Digital communication | 1.課程單元培養學生具深入問題、廣泛蒐集資訊，歸納解釋、善用語言或媒材及數位平台進行表述自己的觀點之能力 2.課程單元或內容從政治經濟、社會心理、日常生活、視覺文化、以及人文敘事諸角度，理論兼具實務經驗地探究數位化溝通與敘事能力 3.課程單元或內容強化溝通整合能力，學習運用數位科技創造互動體驗的經驗達成數位溝通目的1. The course modules develop students’ abilities to explore issues, collect information from a wide range of sources, summarize and explain, and use language, media, and digital platforms to express their views. 2. The course modules or contents explore digital communication and narration skills both in theory and practice, looking from the perspectives of political economy, social psychology, daily life, visual culture, and humanistic communication. 3. The course modules or contents enhance students’ integrated communication abilities, and teach them to use digital technology to create interactive experiences in order to establish digital communication. | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |
| 一般課程  General course outlines | 課程內容皆無含上表列說明部分The course content does not include the introductions listed above. | □無關聯性  No correlation  □間接相關  Indirectly related to  □直接相關  Directly related to the |

**■課程與專門性議題之關聯性 The relevance of the course to specialized topics**

**（**課程與專門性議題關聯性設定係為配合教育部調查案，請依實際授課內容勾選，若課程與下列議題無關，請勾選「無關聯性」。一般來說，課程中應至少有一單元(或以上)內容確實談及某議題時，才會將課程與該議題視為「間接相關」或「直接相關」。(如遇相關評鑑作業進行時，所涉及專門性相關議題課程可能需要提供課程大綱資料)

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| **項 目** | **項目描述** | **關 聯 性** |
| 性別平等  Gender Equity | Gender Equity | □無關聯性 □間接相關 □直接相關  No correlation Indirectly related to Directly related to the |
| 品德教育  Moral Education | Moral Education | □無關聯性 □間接相關 □直接相關  No correlation Indirectly related to Directly related to the |
| 生命教育  Life Education | Life Education | □無關聯性 □間接相關 □直接相關  No correlation Indirectly related to Directly related to the |
| 人權教育  Human Rights Education | Human Rights Education | □無關聯性 □間接相關 □直接相關  No correlation Indirectly related to Directly related to the |
| 服務學習  Service Learning | Service Learning | □無關聯性 □間接相關 □直接相關  No correlation Indirectly related to Directly related to the |
| 家政教育  Domestic Education | Domestic Education | □無關聯性 □間接相關 □直接相關  No correlation Indirectly related to Directly related to the |
| 海洋教育  Ocean education | Ocean education | □無關聯性 □間接相關 □直接相關  No correlation Indirectly related to Directly related to the |
| 生活防災教育  Life Precaution Education | Life Precaution Education | □無關聯性 □間接相關 □直接相關  No correlation Indirectly related to Directly related to the |
| 環境保護  Environmental Protection | Environmental Protection | □無關聯性 □間接相關 □直接相關  No correlation Indirectly related to Directly related to the |
| 環境安全  Environmental Safety | Environmental Safety | □無關聯性 □間接相關 □直接相關  No correlation Indirectly related to Directly related to the |
| 智慧財產權  Intellectual Property Rights | Intellectual Property Rights | □無關聯性 □間接相關 □直接相關  No correlation Indirectly related to Directly related to the |
| 法制教育  Legal Education | Legal Education | □無關聯性 □間接相關 □直接相關  No correlation Indirectly related to Directly related to the |
| 生涯教育  Career Education | Career Education | □無關聯性 □間接相關 □直接相關  No correlation Indirectly related to Directly related to the |
| 資訊教育  Information Education | Information Education | □無關聯性 □間接相關 □直接相關  No correlation Indirectly related to Directly related to the |
| 本土教育(含多元文化教育)  Local culture education (including multi-cultural education) | Local culture education (including multi-cultural education) | □無關聯性 □間接相關 □直接相關  No correlation Indirectly related to Directly related to the |

**■ 教學方法（Pedagogical Methods）：請說明各教學方法占總授課時數比率**（若使用其他教學方法，請自行說明，並填寫總成績比率。若所列之教學方法未使用，只需於百分比欄位中填0。所有使用的教學方法百分比率合計為100%。）

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|  | 編號 | 方法 | 百分比 |
| **□** | 1 | 講述Lecture |  |
| **□** | 2 | 個案研究Case Study |  |
| **□** | 3 | 競賽遊戲Simulation Game |  |
| **□** | 4 | 電子教學E-Learning |  |
| **□** | 5 | 競賽讀書會Study Group |  |
| **□** | 6 | 對話教學法Dialogue Teaching |  |
| **□** | 7 | 實作教學Practicum |  |
| **□** | 8 | 影片欣賞Video Watching |  |
| **□** | 9 | 服務學習Service Learning |  |
| **□** | 10 | 專家演講Guest Speaker |  |
| **□** | 11 | 體驗教學Project Adventure |  |
| **□** | 12 | 產業實習Internship |  |
| **□** | 13 | 樣本觀察Observation |  |
| **□** | 14 | 個別指導Individual Conference |  |
| **□** | 15 | 討論Discussion |  |
| **□** | 16 | 問題導向學習PBL |  |
| **□** | 17 | 專題實作Seminar on Field Research |  |
| **□** | 18 | 角色扮演實境教學Role Play |  |
| **□** | 19 | 自主學習Self-Learning |  |
| **□** | 20 | 校外參訪Field Trip |  |
| **□** | 21 | 其他Others |  |

**■ 學習評量（Learning Evaluation）：請說明各評量方法占總成績比率（**若使用其他評量方法，請自行說明，並填寫總成績比率。若所列之評量方法未使用，只需於百分比欄位中填0。所有使用的評量方法百分比率合計為100%**）**

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|  | 編號 | 方法 | 百分比 |
| **□** | 1 | 課堂之前測Pre-test |  |
| **□** | 2 | 學生表現側寫報告Profile Report |  |
| **□** | 3 | 個案分析報告撰寫Case Study |  |
| **□** | 4 | 專題發表Project Presentation |  |
| **□** | 5 | 課堂上實作演練Role Playing/ Practicum |  |
| **□** | 6 | 專業團體之證照檢定Certification |  |
| **□** | 7 | 期中考Midterm |  |
| **□** | 8 | 期末考Final exam |  |
| **□** | 9 | 隨堂考(小考) Quiz |  |
| **□** | 10 | 書面報告(含小組或個人)Research Paper and Report (Individual or Group) |  |
| **□** | 11 | 課堂參與Participation Marks (attendance & discussion) |  |
| **□** | 12 | 心得或作業撰寫Assignment/Essay & Creative Writing |  |
| **□** | 13 | 口頭報告(含小組或個人)Oral Presentation (Individual or Group) |  |
| **□** | 14 | 面試或口試Oral exam |  |
| **□** | 15 | 自評與小組互評Self-learning report and Peer Review |  |
| **□** | 16 | 參加競賽Attending Contest |  |
| **□** | 17 | 展演Performance |  |
| **□** | 18 | 筆記Notes/Learning Journals |  |
| **□** | 19 | 其他Others |  |

**■ 各週授課進度（Weekly Course Progress Outline）**

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| 週次week | 主題Subject | 課程內容或指定閱讀unit | 備註Remark |
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