

114 學年度永續與綠能科技研究學院 EMI 課程地圖
Graduate College of Sustainability and Green Energy
Academic year 114 EMI Course map

課號 Course Code	課程名稱 Course Name	修課年級 Year	學分數 Credit		備註 Note
			1141	1142	
SA5001	地球環境 Earth Environment	碩博同修 Doctoral-Master	3	---	必修 Required
SA5006	氣象資訊與風光電實務 Wind and solar energy practice with weather data	碩博同修 Doctoral-Master	2	---	選修 Elective
SA5009	氣候變遷風險與評估 Climate Change Risk and Assessment	碩博同修 Doctoral-Master	2	---	選修 Elective
SA5023	廢棄物處理與循環工程 Waste Treatment and Recycling Engineering	碩博同修 Doctoral-Master	3	---	選修 Elective
SA5026	離岸風電與多維環境參數與評估 Offshore Wind Power and Multidimensional Environmental Parameters and Assessment	碩博同修 Doctoral-Master	3	---	選修 Elective
SA5005	跨領域空間資料分析與永續應用 Interdisciplinary Spatial Data Analysis and Sustainable Applications	碩博同修 Doctoral-Master	3	---	選修 Elective
SA5030	地球工程概論 Fundamentals of Geoengineering	碩博同修 Doctoral-Master	3	---	選修 Elective
SA5031	無人機攝影測量 UAV Photogrammetry	碩博同修 Doctoral-Master	3	---	選修 Elective
SA5002	IPCC 報告導讀 Introduction to the IPCC assessment reports	碩博同修 Doctoral-Master	---	3	選修 Elective
SA5008	碳封存場址調查與開發 Assessment and development of carbon storage sites	碩博同修 Doctoral-Master	---	2	選修 Elective
SA5010	空氣污染監測與管制 Air pollution monitoring and control	碩博同修 Doctoral-Master	---	3	選修 Elective
SA5012	水資源的開發與風險評估 Water Resource Development and Risk Assessment	碩博同修 Doctoral-Master	---	3	選修 Elective
SA5013	循環經濟材料於基礎建設之再利用 Reuse of Circular Economy Materials in Road Engineering	碩博同修 Doctoral-Master	---	3	選修 Elective
SA5037	地質統計學 Geostatistics	碩博同修 Doctoral-Master	---	3	選修 Elective

SA5038	電化學分析與應用實務 Electrochemical Analysis and Practical Applications	碩博同修 Doctoral-Master	---	3	選修 Elective
SA5038	驅動能源轉型：關鍵產業中的氫能與碳管理技術 Enabling the Transition: Hydrogen and Carbon Management Technologies Across Key Sectors	碩博同修 Doctoral-Master	---	1	選修 Elective

114 學年度永續領導力碩/博士學位學程 EMI 課程地圖

MS/PhD Program in Sustainability Leadership

Academic year 114 EMI Course map

課號 Course Code	課程名稱 Course Name	修課年級 Year	學分數 Credit		備註 Note
			1141	1142	
SL5001	永續發展專題探討 Seminar on Sustainable Development	碩博同修 Doctoral-Master	3	---	選修 Elective
SL5002	永續製造與企業資源規劃 Sustainable Manufacturing and ERP	碩博同修 Doctoral-Master	3	---	選修 Elective
SL5004	企業社會責任 Corporate Social Responsibility	碩博同修 Doctoral-Master	3	---	選修 Elective
SL5011	空間資訊數位研究 Geospatial Digital Study	碩博同修 Doctoral-Master	3	---	選修 Elective
SL5014	永續領導力基礎 Sustainability Leadership Essentials	碩博同修 Doctoral-Master	3	---	必修 Required
SL5015	DEI 多元平等共融概論 Introduction to DEI: Diversity, Equity, and Inclusion	碩博同修 Doctoral-Master	3	---	選修 Elective
SL5003	社會與永續創業 Social and Sustainable Entrepreneurship	碩博同修 Doctoral-Master	---	3	選修 Elective
SL5006	再生能源與永續發展 Renewable Energy & Sustainable Development	碩博同修 Doctoral-Master	---	3	選修 Elective
SL5007	數位影像與社會變遷 Digital Image and Social Change	碩博同修 Doctoral-Master	---	3	選修 Elective
SL5018	能源經濟與政策 Energy Economics and Policy	碩博同修 Doctoral-Master	---	3	選修 Elective
SL5019	社會投資生態圈與影響力創投 Social Investment Ecosystem and Impact Ventures	碩博同修 Doctoral-Master	---	3	選修 Elective

114 學年度永續去碳科技碩/博士學位學程 EMI 課程地圖
Master/Ph.D. Programs, Sustainability in Decarbonization
Academic year 114 EMI Course map

課號 Course Code	課程名稱 Course Name	修課年級 Year	學分數 Credit		備註 Note
			1141	1142	
SD5003	儲能原理與技術 Theory and Technology of energy storage	碩博同修 Doctoral-Master	3	---	選修 Elective
SD5004	工程材料之減碳減排原理與其應用 The principal and application of Carbon emission reduction for engineering material	碩博同修 Doctoral-Master	3	---	選修 Elective
SD5011	地熱資源調查與實作 Geothermal Resource Survey and Implementation	碩博同修 Doctoral-Master	2	---	選修 Elective
SD5008	循環經濟與綠色技術實務 Circular Economic and Green Technology Practices	碩博同修 Doctoral-Master	3	---	選修 Elective
SD5014	儲氫技術 Hydrogen Storage Technologies	碩博同修 Doctoral-Master	3	---	選修 Elective
SD5008	循環經濟與綠色技術實務 Circular Economic and Green Technology Practices	碩博同修 Doctoral-Master	---	3	選修 Elective
SD5015	奈米材料製程與檢測技術 Processing and Characterization of Nanomaterials	碩博同修 Doctoral-Master	---	3	選修 Elective

114 學年度永續綠能科技碩/博士學位學程 EMI 課程地圖
Master/Ph.D. Programs, Sustainability in Green Energy
Academic year 114 EMI Course map

課號 Course Code	課程名稱 Course Name	修課年級 Year	學分數 Credit		備註 Note
			1141	1142	
SG5001	電力電子電路分析與設計 Analysis and Design of Power Electronics	碩博同修 Doctoral-Master	3	---	選修 Elective
SG5002	電力系統故障分析 Power System Fault Analysis	碩博同修 Doctoral-Master	3	---	選修 Elective
SG5004	電力品質訊號處理 Signal Processing of Power Quality Disturbances	碩博同修 Doctoral-Master	3	---	選修 Elective
SG5006	人工智慧 Artificial Intelligence	碩博同修 Doctoral-Master	3	---	選修 Elective
SG5003	切換式電能轉換器 Switching Mode Power Converters	碩博同修 Doctoral-Master	---	3	選修 Elective
SG5027	綠能總論 General introduction to green energy	碩博同修 Doctoral-Master	---	3	必修 Required