

115 學年度遙測科技碩士學位學程課程表
Master of Science Program in Remote Sensing Science and Technology
2026 Fall – 2027 Spring / Course Curriculum:

All Courses taught in English

*Open every two years

上/下學期 Fall/Spring	課號 Code	課名 Course	任課老師 Instructor	學分數 Credits	對應之永續發展目標 Targeted SDGs
必修 Compulsory					
上學期 (暑期上課) Fall Class in Summer	RS6053	太空遙測原理 Principle of Space Remote Sensing	任玄/林唐煌 <u>Hsuan Ren</u> <u>Tang-</u> <u>Huang Lin</u>	3	SDG 9：產業、創新與基礎設施 (Industry, Innovation and Infrastructure) SDG 11：永續城市與社區 (Sustainable Cities and Communities) SDG 13：氣候行動 (Climate Action) SDG 14：海洋生態 (Life Below Water) SDG 15：陸域生態 (Life on Land)
上學期 Fall	RS6081	遙測數據影像處理I Digital Image Processing for Remote SensingI	任玄 <u>Hsuan Ren</u>	3	SDG 13：氣候行動 (Climate Action) SDG 14：海洋生態 (Life Below Water) SDG 15：陸域生態 (Life on Land)
上/下學期 Fall/Spring	RS6001 RS6002 RS6003 RS6004	書報討論 Seminar	黃智遠 <u>Po-Chun Hsu</u>	1	SDG 4：優質教育 (Quality Education) (p. 1) SDG 5：性別平等 (Gender Equality) (p. 1) SDG 17：全球夥伴關係(Partnerships for the Goals)
遙測組必選(6 選 3)					
Remote Sensing Group – Compulsory Elective (3 out of 6)					
上學期 Fall	RS7007	光學遙測學 Optical Remote Sensing	林唐煌 <u>Tang-</u> <u>Huang Lin</u>	3	SDG 3 (健康與福祉 / Good Health and Well-being) SDG 4：優質教育 (Quality Education) SDG 7：可再生能源 / 經濟適用的清 潔能源 (Affordable and Clean Energy)
	RS7012	數位訊號處理 Digital Signal Processing	任玄 <u>Hsuan Ren</u>	3	SDG 4：優質教育 (Quality Education) SDG 8：尊嚴勞動與經濟成長 (Decent Work and Economic Growth) SDG 9：產業、創新與基礎設施 (Industry, Innovation and Infrastructure) SDG 13：氣候行動 (Climate Action)
	RS7032	地質遙測學 Geological Remote Sensing	張中白 <u>Chung-Pai</u> <u>Chang</u>	3	SDG 7：可再生能源 / 經濟適用的清 潔能源 (Affordable and Clean Energy) SDG 11：永續城市與社區 (Sustainable Cities and Communities) SDG 15：陸域生態 (Life on Land)
	RS7035	海洋遙測 Ocean Remote Sensing	許伯駿 <u>Po-Chun Hsu</u>	3	SDG 13：氣候行動 (Climate Action) SDG 14：海洋生態 (Life Below Water) SDG 17：全球夥伴關係(Partnerships for the Goals)

上/下學期 Fall/Spring	課號 Code	課名 Course	任課老師 Instructor	學分數 Credits	對應之永續發展目標 Targeted SDGs
下學期 Spring	RS5046	環境資料科學 Environmental Data Science	鄭懷傑 <u>Whyjay Zheng</u>	3	SDG 13：氣候行動 (Climate Action)
	RS7033	*合成孔徑雷達 Synthetic Aperture Radar	任玄 <u>Hsuan Ren</u>	3	SDG 4：優質教育 (Quality Education) SDG 7：可再生能源 / 經濟適用的清潔能源 (Affordable and Clean Energy) SDG 9：產業、創新與基礎設施 (Industry, Innovation and Infrastructure)
空資組必選 Geoinformatics Group – Compulsory Elective					
上學期 Fall	RS5012	衛星測量及導航 Satellite Geodesy and Navigation	曾國欣 <u>Kuo-Hsin Tseng</u>	3	SDG 9：產業、創新與基礎設施 (Industry, Innovation and Infrastructure) SDG 11：永續城市與社區 (Sustainable Cities and Communities) SDG 13：氣候行動 (Climate Action)
	RS7065	地理資訊系統 Geographic Information Systems	姜壽浩 <u>Shou-Hao Chiang</u>	3	SDG 9：產業、創新與基礎設施 (Industry, Innovation and Infrastructure) SDG 11：永續城市與社區 (Sustainable Cities and Communities) SDG 17：全球夥伴關係 (Partnerships for the Goals)
	RS7076	數位攝影測量 Digital Photogrammetry	黃智遠 <u>Chih-Yuan Huang</u>	3	SDG 4：優質教育 (Quality Education) SDG 9：產業、創新與基礎設施 (Industry, Innovation and Infrastructure) SDG 11：永續城市與社區 (Sustainable Cities and Communities)
上/下學期 Fall/Spring	課號 Code	課名 Course	任課老師 Instructor	學分數 Credits	
選修 Elective					
上學期 Fall	RS5035	描述性海洋學 Descriptive Oceanography	許伯駿 <u>Po-Chun Hsu</u>	3	SDG 13：氣候行動 (Climate Action) SDG 14：海洋生態 (Life Below Water) SDG 17：全球夥伴關係 (Partnerships for the Goals)
	RS5054	空間資訊數位研究 Geospatial Digital Study	劉說安 <u>Yuei-An Liou</u>	3	SDG 4：優質教育 (Quality Education) SDG 11：永續城市與社區 (Sustainable Cities and Communities) SDG 13：氣候行動 (Climate Action) SDG 14：海洋生態 (Life Below Water) SDG 15：陸域生態 (Life on Land)
	RS5096	統計學 Statistics	李泉 <u>Chuan Li</u>	3	SDG 4：優質教育 (Quality Education)
	RS6026	遙測開放科學實踐 Open Science Practices in Remote Sensing	鄭懷傑 <u>Whyjay Zheng</u>	3	SDG 10：減少不平等
	RS5081	人工智慧於遙測應用 Artificial Intelligence	黃春嘉	3	SDG 4：優質教育 (Quality Education) SDG 9：產業、創新與基礎設施

上/下學期 Fall/Spring	課號 Code	課名 Course	任課老師 Instructor	學分數 Credits	對應之永續發展目標 Targeted SDGs
		for Remote Sensing Applications			(Industry, Innovation and Infrastructure) SDG 11：永續城市與社區 (Sustainable Cities and Communities)
下學期 Spring	RS5008	數位地形與城市模型 Digital Terrain and City Modeling	蔡富安 <u>Fuan Tsai</u>	3	SDG 4：優質教育 (Quality Education) SDG 9：產業、創新與基礎設施 (Industry, Innovation and Infrastructure) SDG 11：永續城市與社區 (Sustainable Cities and Communities)
	RS5020	雷達遙測實務 Applications of Radar Remote Sensing	曾國欣 <u>Kuo-Hsin Tseng</u>	3	SDG 4：優質教育 (Quality Education) SDG 11：永續城市與社區 (Sustainable Cities and Communities) SDG 15：陸域生態 (Life on Land)
	RS5036	海氣資料處理與科學繪圖 Ocean and Atmospheric Data Processing and Scientific Visualization	許伯駿 <u>Po-Chun Hsu</u>	3	SDG 4：優質教育 (Quality Education) SDG 13：氣候行動 (Climate Action) SDG 15：陸域生態 (Life on Land)
	RS5038	海洋與氣候變遷 Ocean and Climate Change	許伯駿 <u>Po-Chun Hsu</u>	3	SDG 11：永續城市與社區 (Sustainable Cities and Communities) SDG 13：氣候行動 (Climate Action) SDG 14：海洋生態 (Life Below Water)
	RS5044	數位影像與社會變遷 Digital Image and Social Change	劉說安 <u>Yuei-An Liou</u>	3	SDG 13：氣候行動 (Climate Action) SDG 15：陸域生態 (Life on Land) SDG 17：全球夥伴關係(Partnerships for the Goals)
	RS5045	沈積盆地與地體構造 Tectonics of Sedimentary Basins	張中白 <u>Chung-Pai Chang</u>	3	SDG 4：優質教育 (Quality Education) SDG 7：可再生能源 / 經濟適用的清潔能源 (Affordable and Clean Energy) SDG 15：陸域生態 (Life on Land)
	RS6024	海洋災害與環境監測資料分析 Ocean hazards and environmental monitoring data analysis	許伯駿 <u>Po-Chun Hsu</u>	3	SDG 4：優質教育 (Quality Education) SDG 13：氣候行動 (Climate Action) SDG 14：海洋生態 (Life Below Water)
	RS6035	資料收集、分析與應用 Data collection, analysis & application	蔡龍治 <u>Lung-Chih Tsai</u>	3	SDG 4：優質教育 (Quality Education) SDG 9：產業、創新與基礎設施 (Industry, Innovation and Infrastructure) SDG 17：全球夥伴關係(Partnerships for the Goals)
	RS7009	*偵測與估計 Detection and Estimation	任玄 <u>Hsuan Ren</u>	3	SDG 4：優質教育 (Quality Education) SDG 9：產業、創新與基礎設施 (Industry, Innovation and Infrastructure) SDG 11：永續城市與社區 (Sustainable Cities and Communities)
	RS7036	氣膠遙測 Aerosol Remote Sensing	林唐煌 <u>Tang-Huang Lin</u>	3	SDG 11：永續城市與社區 (Sustainable Cities and Communities) SDG 13：氣候行動 (Climate Action) SDG 15：陸域生態 (Life on Land)

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	RS7078	空間資訊分析及應用 Spatial Data Analysis and Applications	姜壽浩 <u>Shou-Hao Chiang</u>	3	SDG 4：優質教育 (Quality Education) SDG 9：產業、創新與基礎設施 (Industry, Innovation and Infrastructure) SDG 11：永續城市與社區 (Sustainable Cities and Communities) SDG 13：氣候行動 (Climate Action)
	RS7119	雲端地理資訊系統 Cloud-based Geographic Information System	黃智遠 <u>Chih-Yuan Huang</u>	3	SDG 9：產業、創新與基礎設施 (Industry, Innovation and Infrastructure) SDG 11：永續城市與社區 (Sustainable Cities and Communities) SDG 13：氣候行動 (Climate Action)

※選修課程僅供參考，請依當期選課系統為準。For the elective courses, please refer to the NCU Course Selection System.

※如選修非表列之相關領域課程且欲須採計為畢業學分，需經指導教授同意。With the prior approval of an advisor, students in the program may select graduate-level courses beyond the approved list of electives to fulfill the electives requirement.