

**109 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**  
**2020 Fall – 2021 Spring / Course Curriculum:**

★ Courses taught in English ☆ Courses available in English \*Open every two year

◎ Courses taught in English every two years

109.07.02

上/下學期 Fall/Spring	課號 Code	課名 Course	任課老師 Instructor	學分數 Credits
<b>必修 Compulsory</b>				
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 / Tang-Huang Lin</u>	3
上學期 Fall	RS6081	遙測數據影像處理 I ★ Digital Image Processing for Remote Sensing I	任玄 <u>Hsuan Ren</u>	3
上/下學期 Fall/Spring	RS6001 RS6002 RS6003 RS6004	書報討論★ Seminar	曾國欣/陳映濃 <u>Kuo-Hsin Tseng/ Ying-Nong Cheng</u>	1
<b>遙測組必選(6 選 3)</b>				
<b>Remote Sensing Group – Compulsorily Elective (3 out of 6)</b>				
上學期 Fall	RS6011	高等大氣輻射◎ Advanced Atmospheric Radiation	劉千義 <u>Chian-Yi Liu</u>	3
	RS7012	數位訊號處理★ Digital Signal Processing	任玄 <u>Hsuan Ren</u>	3
下學期 Spring	RS5024	機器學習與主動式影像處理☆ Machine Learning & Active Image Processing	陳映濃 <u>Ying-Nong Cheng</u>	3
	RS7007	光學遙測學☆ Optical Remote Sensing	林唐煌 <u>Tang-Huang Lin</u>	3
	RS7032	地質遙測學★(停開) Geological Remote Sensing	張中白 <u>Chung-Pai Chang</u>	3
	*RS7033	合成孔徑雷達★ Synthetic Aperture Radar	任玄 <u>Hsuan Ren</u>	3
<b>空資組必選</b>				
<b>Geoinformatics Group – Compulsorily Elective</b>				
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
	RS7065	地理資訊系統★ Geographic Information Systems	姜壽浩 <u>Shou-Hao Chiang</u>	3
	RS7076	數位攝影測量★ Digital Photogrammetry	黃智遠 <u>Chih-Yuan Huang</u>	3

上/下學期 Fall/Spring	課號 Code	課名 Course	任課老師 Instructor	學分數 Credits
<b>選修 Elective</b>				
上學期 Fall	RS5044	數位影像與社會變遷☆ Digital Image and Social Change	劉說安 <u>Yuei-An Liou</u>	3
	RS7036	氣膠遙測★ Aerosol Remote Sensing	林唐煌 <u>Tang-Huang Lin</u>	3
	SS8079	大氣微波遙測特論 I ☆ Special Topics on Microwave Remote Sensing of the Atmosphere I	劉說安 <u>Yuei-An Liou</u>	3
	*ES7055	大氣輻射專題特論 ★ Special Topics on Atmospheric Radiation	劉千義 <u>Chian-Yi Liu</u>	3
暑期上課 Class in Summer	RS5010	影像分析程式設計★ Practical Programming for Image Analysis	蔡富安 <u>Fuan Tsai</u>	3
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
	RS5020	雷達遙測實務	曾國欣等	3
	RS5054	空間資訊數位研究☆ Geospatial Digital Study	劉說安 <u>Yuei-An Liou</u>	3
	RS6057	衛星氣象 I ☆(停開) Satellite Meteorology I	劉振榮 <u>Gin-Rong Liu</u>	3
	*RS6086	大氣遙測 Atmospheric Remote Sensing	劉千義 <u>Chian-Yi Liu</u>	3
	*RS7009	偵測與估計☆ Detection and Estimation	任玄 <u>Ren, Hsuan</u>	3
	RS7011	天線與電波傳播★ Antenna and Wave Propagation	蔡龍治 <u>Lung-Chih Tsai</u>	3
	RS7035	海洋遙測★(停開) Ocean Remote Sensing	劉千義/曾國欣 <u>Chian-Yi Liu / Kuo-Hsin Tseng</u>	3
	RS7078	空間資訊分析及應用☆ Spatial Data Analysis and Applications	姜壽浩 <u>Shou-Hao Chiang</u>	3
	RS7119	雲端地理資訊系統☆ Cloud-based Geographic Information System	黃智遠 <u>Chih-Yuan Huang</u>	3
	*ES7054	大氣遙測專題特論 ★ Special Topics on Atmospheric Remote Sensing	劉千義 <u>Chian-Yi Liu</u>	3
	SS8078	大氣微波遙測特論 II ☆ Special Topics on Microwave Remote Sensing of the Atmosphere II	劉說安 <u>Yuei-An Liou</u>	3

※ 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.