

2022 AI-MAT 暑期實習生雷射光譜技術教育訓練課程

日期/時段	7/4 (一)	7/5 (二)	7/6 (三)	7/7 (四)	7/8 (五)
09:00am 12:00pm	NA	AI-MAT Opening	Lab Group Meeting	NA	NA
02:00pm 05:00pm	NA	Microscopy Lecture & Hand on	LSCSM Lecture & Hand on	R/T Spec Lecture & Hand on	Raman Lecture @3:00pm & Hand on
日期/時段	7/11 (一)	7/12 (二)	7/13 (三)	7/14 (四)	7/15 (五)
09:00am 12:00pm	NA	NA	Lab Group Meeting	NA	NA
02:00pm 05:00pm	Analyzer Lecture & Hand on	Research Project	Research Project	Research Project	Research Project Presentation

Training Topics

1. Microscopy (Wesley): lecture (0.5 hr) + hands-on + ImageJ (1.5 hr)
2. LSCM (Wesley): lecture (1hr), hands-on (2hr), project (3hr)
3. Raman (MH): lecture (1hr), hands-on (2hr), project (3hr)
4. Absorption (R/T) Spectroscopy (Freya): lecture (1hr), hands-on (2hr), project (3hr)
5. Spectral Mapping with JY and Analyzer (CY): Data acquisition (1hr), lecture + hands-on (2hr), project (3hr)

Research Project

Students have to independently identify a research topic and obtain the samples from CW's laboratory. During the period of 7/12-7/14, each student has to explore his samples based on his research plan and the available techniques in Photonic Workshop. In 7/15, each student need to complete a research report and provide a presentation in Photonic Workshop.

