Graduate Certificate in Intelligent Sensing Systems (ITSS) Agenda (ISO2 Part-time through-train)

Day	Topic	Lecturer	Workshop submissions	In-class quiz
Course 1: Vision Systems (VSE, 5 days)				
1	Foundations of computer vision	Matthew Chua		tutorial
2	Foundations of computer vision	Tan Jen Hong	√	
3	Computer vision using machine learning		٧	٧
4	Computer vision using machine learning	Tian Jing	٧	
	Vision system architecture and solution			
5	Designing minimum viable product (MVP) for vision systems	Tan Tzann Chang	٧	
	Vision system case studies	Tian Jing		V
Course 2: Spatial Reasoning from Sensor Data (SRSD, 3 days)				
1	Spatial sensing: 3D scene model & reconstruction	Tian Jing	٧	
2	Spatial reasoning: Vision-based localization		٧	
3	Spatial recognition: RGB-D & point cloud		٧	٧
Course 3: Real-time Audio-Visual Sensing and Sense Making (RTAVS, 4 days)				
1	Video analytics: Motion and tracking	Tian Jing	٧	
2	Video analytics: Action recognition		٧	٧
3	Audio processing			
5	Audio analytics		٧	
4	Audio-visual sense making	Tan Jen Hong	٧	٧