

Subject Code	ISE2S02		
Subject Title	Comprehending and Overcoming Learning Hurdles in Science, Technology, Engineering, and Mathematics (STEM) for Local Schools		
Hosting Department	Department of Industrial and Systems Engineering		
Level	2		
Class Quota	160		
Medium of Instruction	English, supplemented by Chinese as appropriate for service delivery		
Subject Duration	Semester 2 + Summer Term		
Teaching Staff	Prof. CY Tang, Prof. KC Chan, Dr Gary Tsui, Dr Roy Law, Dr YM Tang		
Target Students	GUR, open for all students from FENG, FCE and FAST		
Pre-requisites	Nil		
Selection of students required?	No		
Subject Synopsis	https://www.polyu.edu.hk/ise/images/content/Subject/ISE2S02.doc		
Service Project			
What will students do to serve?	Students will work in groups and be attached to secondary schools with insufficient support and/or resources in promoting scientific thinking and literacy as well as problem - solving skills. The focus of the projects will be on teaching and learning STEM (Science, Technology, Engineering and Mathematics) concepts and theories while cultivating a spirit of scientific literacy and thinking. Example service learning projects included designing projects to illustrate STEM concepts to school children; designing worksheets to help the children practice STEM concepts; assisting children with STEM subjects; organizing STEM awareness workshops and activities for children, etc.		
Whom will students serve?	Underprivileged secondary school students		
Where will students serve?	<input checked="" type="checkbox"/> Hong Kong <input type="checkbox"/> Chinese mainland <input type="checkbox"/> Taiwan <input type="checkbox"/> Macau <input type="checkbox"/> Overseas	District: Tuen Mun Province: City: Country: City:	
When will students serve?	Exact time will vary depending on the school to which the students are attached. Some project activities may be held on weekends.		
Fee payable by students	N/A		
Subject and Service Attributes			
Teaching and Learning	<input checked="" type="checkbox"/> #OnlineTeaching <input type="checkbox"/> #HybridTeaching		
Service Mode	<input checked="" type="checkbox"/> #OnlineService <input type="checkbox"/> #HybridService		

Service Language	<input type="checkbox"/> #F2FService <input checked="" type="checkbox"/> #ServiceClient_Cantonese <input type="checkbox"/> #ServiceClient_English <input type="checkbox"/> #ServiceClient_Putonghua <input type="checkbox"/> #ServiceClient_OtherNonEnglish
Service Location	<input checked="" type="checkbox"/> #Location_HK <input type="checkbox"/> #Location_MainlandChina <input type="checkbox"/> #Location_Taiwan <input type="checkbox"/> #Location_Macau <input type="checkbox"/> #Location_Overseas
Enquiry	Dr. Roy Law (roy.law@polyu.edu.hk)