Updated on 10 Feb 2023

Subject Code	ISE2S02S	
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	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/current-students/programme-related-info/subject-syllabus/	
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?	Hong Kong Chinese mainland Province: City: Macau Overseas 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 Service Mode	#OnlineTeaching (Depends on pandemic situation) #HybridTeaching #OnlineService (Depends on pandemic situation) #HybridService #F2FService	

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Service Language	#ServiceClient_Cantonese #ServiceClient_English #ServiceClient_Putonghua #ServiceClient_OtherNonEnglish
Service Location	#Location_HK #Location_MainlandChina #Location_Taiwan #Location_Macau #Location_Overseas
Enquiry	Dr. YM Tang (yukming.tang@polyu.edu.hk)