

Subject Code	ISE2S02
Subject Title	Comprehending and Overcoming Learning Hurdles in Science, Technology, Engineering, and Mathematics (STEM) for Local Schools
Hosting Dept	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	Dr George Ho, Prof. CY Tang, Dr Gary Tsui, Prof. KC Chan, Prof. TM Yue, Dr Dennis Lo, Dr Roy Law and 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	http://www.ise.polyu.edu.hk/programmes/info/1
Service Project	
What will students do to serve?	Students will work in groups and be attached to primary or 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
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
Enquiry	Dr. George Ho, george.ho@polyu.edu.hk