

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	128																					
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 FS																					
Pre-requisites	Nil																					
Selection of students required?	No																					
Subject Synopsis	https://www.polyu.edu.hk/ise/-/media/department/ise/content/study/current-student/programme-related-info/subject-syllabi/ise2s02.doc?la=en&hash=DE0E5930A6EBC949782BDB67055502D6																					
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?	<table style="width: 100%; border: none;"> <tr> <td style="width: 30px;"><input checked="" type="checkbox"/></td> <td style="width: 200px;">Hong Kong</td> <td style="width: 50px;">District: Tuen Mun</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Chinese mainland</td> <td>Province: _____</td> </tr> <tr> <td></td> <td></td> <td>City: _____</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Taiwan</td> <td></td> </tr> <tr> <td><input type="checkbox"/></td> <td>Macau</td> <td></td> </tr> <tr> <td><input type="checkbox"/></td> <td>Overseas</td> <td>Country: _____</td> </tr> <tr> <td></td> <td></td> <td>City: _____</td> </tr> </table>	<input checked="" type="checkbox"/>	Hong Kong	District: Tuen Mun	<input type="checkbox"/>	Chinese mainland	Province: _____			City: _____	<input type="checkbox"/>	Taiwan		<input type="checkbox"/>	Macau		<input type="checkbox"/>	Overseas	Country: _____			City: _____
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<input type="checkbox"/>	Macau																					
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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																					

Service Attributes	
Service Mode	<input type="checkbox"/> #OnlineService <input checked="" type="checkbox"/> #F2FService
Service Language	<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)