

<b>Subject Code</b>	ISE2S02																					
<b>Subject Title</b>	Comprehending and Overcoming Learning Hurdles in Science, Technology, Engineering, and Mathematics (STEM) for Local Schools																					
<b>Hosting Department</b>	Department of Industrial and Systems Engineering																					
<b>Level</b>	2																					
<b>Class Quota</b>	160																					
<b>Medium of Instruction</b>	English, supplemented by Chinese as appropriate for service delivery																					
<b>Subject Duration</b>	Semester 2 + Summer Term																					
<b>Teaching Staff</b>	Prof. CY Tang, Prof. KC Chan, Dr Gary Tsui, Dr Roy Law, Dr YM Tang																					
<b>Target Students</b>	GUR, open for all students from FENG, FCE and FS																					
<b>Pre-requisites</b>	Nil																					
<b>Selection of students required?</b>	No																					
<b>Subject Synopsis</b>	<a href="https://www.polyu.edu.hk/ise/-/media/department/ise/content/study/current-student/programme-related-info/subject-syllabi/ise2s02.doc?la=en&amp;hash=DE0E5930A6EBC949782BDB67055502D6">https://www.polyu.edu.hk/ise/-/media/department/ise/content/study/current-student/programme-related-info/subject-syllabi/ise2s02.doc?la=en&amp;hash=DE0E5930A6EBC949782BDB67055502D6</a>																					
<b>Service Project</b>																						
<b>What will students do to serve?</b>	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.																					
<b>Whom will students serve?</b>	Underprivileged secondary school students																					
<b>Where will students serve?</b>	<table style="width: 100%; border: none;"> <tr> <td style="width: 30%;"><input checked="" type="checkbox"/></td> <td style="width: 30%;">Hong Kong</td> <td style="width: 40%;">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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<b>When will students serve?</b>	Exact time will vary depending on the school to which the students are attached. Some project activities may be held on weekends.																					
<b>Fee payable by students</b>	N/A																					

<b>Service Attributes</b>	
<b>Service Mode</b>	<input type="checkbox"/> #OnlineService <input checked="" type="checkbox"/> #F2FService
<b>Service Language</b>	<input checked="" type="checkbox"/> #ServiceClient_Cantonese <input type="checkbox"/> #ServiceClient_English <input type="checkbox"/> #ServiceClient_Putonghua <input type="checkbox"/> #ServiceClient_OtherNonEnglish
<b>Service Location</b>	<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
<b>Enquiry</b>	Dr. Roy Law ( <a href="mailto:roy.law@polyu.edu.hk">roy.law@polyu.edu.hk</a> )