

Subject Code	BME2S03S																					
Subject Title	Reducing the Scientific Divide in Secondary Students through STEM (Science, Technology, Engineering and Mathematics) Projects																					
Hosting Department	Department of Biomedical Engineering																					
Level	2																					
Class Quota	Group 1: 160 Group 2: 16																					
Medium of Instruction	English [Group 1: as most service beneficiaries are Cantonese-speaking secondary school students, PolyU students who speak Cantonese may have an advantage.]																					
Subject Duration	Group 1: Summer Term Group 2: Summer Term and August 2021																					
Teaching Staff	Dr. Hin-chung Lau																					
Target Students	GUR, open for all students																					
Pre-requisites	Nil																					
Selection of students required?	Group 1: No Group 2: Yes																					
Subject Synopsis	<ul style="list-style-type: none"> • https://polyu.hk/jjQql • https://www.facebook.com/hkskhwc/posts/2486203664937763/ 																					
Service Project																						
What will students do to serve?	<p>This year's theme is "STEM for Smart Ageing during COVID-19". Students will join a virtual tour to the Jockey Club Smart Ageing Hub (https://www.polyu.edu.hk/Ageing/en/index.php) to enhance their awareness of different gerontechnology products for supporting the elderly and care givers.</p> <p>The focus of the projects will be to cultivate a spirit of STEM literacy and engineering design thinking in secondary students related to technology and human health. PolyU students will be involved in the learning, teaching and designing of simple mechatronic devices to illustrate key STEM concepts to secondary students; guide and facilitate secondary students to build an assistive device to promote healthy lifestyle. The exact nature of the project may vary depending on the needs of the collaborating schools and students. There is a one-day STEM competition on 09th July for secondary students to showcase their creativity. PolyU students have to join and motivate your secondary students.</p>																					
Whom will students serve?	Teenagers studying in underprivileged secondary schools																					
Where will students serve?	<table border="0"> <tr> <td><input checked="" type="checkbox"/></td> <td>Hong Kong</td> <td>District: _____</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 checked="" type="checkbox"/></td> <td>Overseas</td> <td>Country: Philippines</td> </tr> <tr> <td></td> <td></td> <td>City: _____</td> </tr> </table>	<input checked="" type="checkbox"/>	Hong Kong	District: _____	<input type="checkbox"/>	Chinese mainland	Province: _____			City: _____	<input type="checkbox"/>	Taiwan		<input type="checkbox"/>	Macau		<input checked="" type="checkbox"/>	Overseas	Country: Philippines			City: _____
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When will students serve?	Exact time may vary depending on the school to which PolyU students are attached. Week 1-4 will have regular classes and workshops.																					

	<p>For Group 1, most service activities will be between 24th June and 9th July 2021. Every student must be available on 9th July 2021 for the competition day.</p> <p>For Group 2, most service activities will be tentatively scheduled in August 2021.</p>
Fee payable by students	<p>Group 1: N/A</p> <p>Group 2: \$2000 plus others, which will be mentioned during the interview selection process. The fee will be refundable if the service trip is affected by COVID-19.</p>
Subject and Service Attributes	
Teaching and Learning	<input type="checkbox"/> #OnlineTeaching <input checked="" type="checkbox"/> #HybridTeaching
Service Mode	<input type="checkbox"/> #OnlineService <input checked="" type="checkbox"/> #HybridService <input type="checkbox"/> #F2FService
Service Language	<input checked="" type="checkbox"/> #ServiceClient_Cantonese (Group 1) <input checked="" type="checkbox"/> #ServiceClient_English (Group 2) <input type="checkbox"/> #ServiceClient_Putonghua <input type="checkbox"/> #ServiceClient_OtherNonEnglish
Service Location	<input checked="" type="checkbox"/> #Location_HK (Group 1) <input type="checkbox"/> #Location_MainlandChina <input type="checkbox"/> #Location_Taiwan <input type="checkbox"/> #Location_Macau <input checked="" type="checkbox"/> #Location_Overseas (Group 2)
Enquiry	Miss Ryta WONG (Email: cyr1wong@polyu.edu.hk)