

Subject Code	BME2S04																					
Subject Title	Reducing the Scientific Divide in Primary and Secondary Students through STEM Projects																					
Hosting Department	Department of Biomedical Engineering																					
Level	2																					
Class Quota	130																					
Medium of Instruction	English (As most service beneficiaries are Cantonese-speaking secondary school students, PolyU students who speak Cantonese may have an advantage.)																					
Subject Duration	Semester 2 + Summer Term																					
Teaching Staff	Dr. Hin-chung Lau																					
Target Students	GUR, open for all students																					
Pre-requisites	Nil																					
Selection of students required?	No																					
Subject Synopsis	<ul style="list-style-type: none"> • https://www.polyu.edu.hk/bme/-/media/department/bme/programme/gur-subjects-offered-by-bme/bme2s04_s_20210216.pdf?la=en&hash=043A4B731DF55322091EF8F8B66CBE58 • https://www.facebook.com/hkskhwc/posts/2486203664937763/ 																					
Service Project																						
What will students do to serve?	<p>This year's theme is "STEM for Happy Ageing". 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/exercise device to promote healthy lifestyle to the elders. The exact nature of the project may vary depending on the needs of the collaborating schools and students.</p> <p>There is a one-day STEM competition 「愛·創耆樂」 on 14 July 2022 for secondary students to showcase their creativity. Although not compulsory, PolyU students are encouraged to join online to motivate their secondary students.</p>																					
Whom will students serve?	Teenagers studying in underprivileged secondary schools																					
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: 100px;">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 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: _____	<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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When will students serve?	Exact time may vary depending on the school to which PolyU students are attached. Most activities will be held on Saturdays in February to May 2022 (There is a one-day STEM competition on 14th July 2022. PolyU students are encouraged to join and motivate your secondary students).
Fee payable by students	N/A
Service Attributes	
Service Mode	<input type="checkbox"/> #OnlineService <input checked="" type="checkbox"/> #F2FService (TBC)
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. Hin-Chung LAU (Tel: 2766 7674; Email: hinchung.lau@polyu.edu.hk)