

<b>Subject Code</b>	BME2S04																					
<b>Subject Title</b>	Reducing the Scientific Divide in Primary and Secondary Students through STEM Projects																					
<b>Hosting Department</b>	Department of Biomedical Engineering																					
<b>Level</b>	2																					
<b>Class Quota</b>	130																					
<b>Medium of Instruction</b>	English (As most service beneficiaries are Cantonese-speaking secondary school students, PolyU students who speak Cantonese may have an advantage.)																					
<b>Subject Duration</b>	Semester 2 + Summer Term																					
<b>Teaching Staff</b>	Dr. Hin-chung Lau, Ms Jessie Kar																					
<b>Target Students</b>	GUR, open for all students																					
<b>Pre-requisites</b>	Nil																					
<b>Selection of students required?</b>	No																					
<b>Subject Synopsis</b>	<ul style="list-style-type: none"> <li>• <a href="https://www.polyu.edu.hk/bme/-/media/department/bme/programme/gur-subjects-offered-by-bme/bme2s04_s_20210216.pdf?la=en&amp;hash=043A4B731DF55322091EF8F8B66CBE58">https://www.polyu.edu.hk/bme/-/media/department/bme/programme/gur-subjects-offered-by-bme/bme2s04_s_20210216.pdf?la=en&amp;hash=043A4B731DF55322091EF8F8B66CBE58</a></li> <li>• <a href="https://www.facebook.com/hkskhwc/posts/2486203664937763/">https://www.facebook.com/hkskhwc/posts/2486203664937763/</a></li> </ul>																					
<b>Service Project</b>																						
<b>What will students do to serve?</b>	<p>This year's theme is "STEM for Happy Ageing". Students will join a virtual tour to the Jockey Club Smart Ageing Hub ( <a href="https://www.polyu.edu.hk/Ageing/en/index.php">https://www.polyu.edu.hk/Ageing/en/index.php</a> ) 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 8 July 2023 for secondary students to showcase their creativity. Although not compulsory, PolyU students are encouraged to join to motivate their secondary students.</p>																					
<b>Whom will students serve?</b>	Teenagers studying in underprivileged secondary schools																					
<b>Where will students serve?</b>	<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: _____
<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: _____																				

<b>When will students serve?</b>	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 2023 (There is a one-day STEM competition on 8 July 2023. PolyU students are encouraged to join and motivate your secondary students).
<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 (TBC)
<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. Hin-Chung LAU (Tel: 2766 7674; Email: <a href="mailto:hinchung.lau@polyu.edu.hk">hinchung.lau@polyu.edu.hk</a> )