

<b>Subject Code</b>	BME2S03																					
<b>Subject Title</b>	Reducing the Scientific Divide in Secondary Students through STEM (Science, Technology, Engineering and Mathematics) 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																					
<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://polyu.hk/MqcQh">https://polyu.hk/MqcQh</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 Smart Ageing during COVID-19". 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 even during COVID-19. 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 09 July 2021 for secondary students to showcase their creativity. Although not compulsory, PolyU students are encouraged to join online 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: _____
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		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 April 2020 (There is a one-day STEM competition in July. PolyU students are encouraged to join and motivate your secondary students).
<b>Fee payable by students</b>	N/A
<b>Subject and Service Attributes</b>	
<b>Teaching and Learning</b>	<input type="checkbox"/> #OnlineTeaching <input checked="" type="checkbox"/> #HybridTeaching
<b>Service Mode</b>	<input type="checkbox"/> #OnlineService <input checked="" type="checkbox"/> #HybridService <input 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. Hin-Chung LAU (Tel: 2766 7674; Email: <a href="mailto:hinchung.lau@polyu.edu.hk">hinchung.lau@polyu.edu.hk</a> )