

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	Group 201 (Hong Kong Team) : 112 Group 202N (Cambodia Team) : 32																					
Medium of Instruction	English [For Group 201, as most service beneficiaries are Cantonese-speaking primary school students, PolyU students who speak Cantonese may have an advantage.]																					
Subject Duration	Semester 2 + Summer Term																					
Teaching Staff	Dr. Hin-chung Lau, Ms. Jessie Kar, Ms. Ryta Wong																					
Target Students	GUR, open to all students																					
Pre-requisites	Nil																					
Selection of students required?	Group 201: No Group 202N: Yes																					
Subject Synopsis	https://polyu.hk/xTlpD																					
Service Project																						
What will students do to serve?	<p>For Group 201, this year's theme is "STEM for Happy Ageing". 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 to the elders. The exact nature of the project may vary depending on the needs of the collaborating schools and students.</p> <p>For Group 202N, PolyU students will join hands with local university students in Cambodia to organise STEM workshops for underprivileged children to build robotic cars by using Micro:bit, writing MakeCode program (Drag and Drop programming) and making DIY controllers. A competition will also be held at the local school. More information can be found from https://drive.google.com/file/d/1ETtKxRI9GntSe_Ggv8Eb_G4gsml8HcgP/view?usp=sharing</p>																					
Whom will students serve?	Group 201: Secondary school students in Hong Kong Group 202N: Youths and children in Cambodia																					
Where will students serve?	<table border="0"> <tr> <td><input checked="" type="checkbox"/></td><td>Hong Kong</td><td>District: Kwun Tong, Fanling</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: Cambodia</td></tr> <tr> <td></td><td></td><td>City: Phnom Penh</td></tr> </table>	<input checked="" type="checkbox"/>	Hong Kong	District: Kwun Tong, Fanling	<input type="checkbox"/>	Chinese mainland	Province: _____			City: _____	<input type="checkbox"/>	Taiwan		<input type="checkbox"/>	Macau		<input checked="" type="checkbox"/>	Overseas	Country: Cambodia			City: Phnom Penh
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When will students serve?	The activities will be held on Saturdays in Semester 2. (Group 201) The service trip will be held from week 2 to week 3 of Summer Term (June 2024). (Group 202N)																					

Fee payable by students	Group 201: N/A Group 202N: HK\$2,000
Service Attributes	
Service Mode	<input checked="" type="checkbox"/> #OnlineService (<i>only if the service arrangement is affected by COVID-19, hence students must be available in Hong Kong in case F2F services are possible</i>)
Service Language	<input type="checkbox"/> #HybridService <input checked="" type="checkbox"/> #F2FService
Service Location	<input checked="" type="checkbox"/> #ServiceClient_Cantonese (Group 201) <input checked="" type="checkbox"/> #ServiceClient_English (Group 202N) <input type="checkbox"/> #ServiceClient_Putonghua <input type="checkbox"/> #ServiceClient_OtherNonEnglish <input checked="" type="checkbox"/> #Location_HK (Group 201) <input type="checkbox"/> #Location_MainlandChina <input type="checkbox"/> #Location_Taiwan <input type="checkbox"/> #Location_Macau <input checked="" type="checkbox"/> #Location_Overseas (Group 202N)
Enquiry	Miss Ryta WONG (Email: cyr1wong@polyu.edu.hk)