

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 101 (Hong Kong Team) : 130 Group 102 (Thailand Team) : 30															
Medium of Instruction	English [For Group 101, as most service beneficiaries are Cantonese-speaking primary school students, PolyU students who speak Cantonese may have an advantage.]															
Subject Duration	Semester 1 + Semester 2															
Teaching Staff	Dr. Hin-chung Lau, Ms. Jessie Kar															
Target Students	GUR, open to all students															
Pre-requisites	Nil															
Selection of students required?	Group 101: No Group 102: Yes															
Subject Synopsis	https://polyu.hk/TikSX															
Service Project																
What will students do to serve?	<p>For Group 101, the service project in 2023 Semester 1 will promote social integration among PolyU students, primary school students and the elderly. They will join hands to participate in a half-day competition (like Mario Balloon Battle https://polyu.hk/lGcng). PolyU students will work in groups to organise 4-day STEM workshops for teaching primary school students to build robotic cars by using Micro:bit, writing MakeCode program (Drag and Drop programming) and making DIY controllers. The elderly will also participate in the workshop to learn about health information and test the robotic cars.</p> <p>For Group 102, the same competition mentioned above will be held in Surat Thani, Thailand. PolyU students will join hands with international students in Thailand to organise STEM workshops for underprivileged children. More information can be found in BME2S04_Thailand.pdf.</p>															
Whom will students serve?	Group 101: Primary school students in Hong Kong (direct), Elderly (indirect). Group 102: Youths and children in Thailand.															
Where will students serve?	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;"><input checked="" type="checkbox"/></td> <td style="width: 45%;">Hong Kong</td> <td style="width: 50%;">District: Shatin District, Yau Tsim Mong District and Southern District</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Chinese mainland</td> <td>Province: _____ 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: Thailand City: Surat Thani</td> </tr> </table>	<input checked="" type="checkbox"/>	Hong Kong	District: Shatin District, Yau Tsim Mong District and Southern District	<input type="checkbox"/>	Chinese mainland	Province: _____ City: _____	<input type="checkbox"/>	Taiwan		<input type="checkbox"/>	Macau		<input checked="" type="checkbox"/>	Overseas	Country: Thailand City: Surat Thani
<input checked="" type="checkbox"/>	Hong Kong	District: Shatin District, Yau Tsim Mong District and Southern District														
<input type="checkbox"/>	Chinese mainland	Province: _____ City: _____														
<input type="checkbox"/>	Taiwan															
<input type="checkbox"/>	Macau															
<input checked="" type="checkbox"/>	Overseas	Country: Thailand City: Surat Thani														
When will students serve?	The activities will be held on Saturdays in Semester 1. (Group 101) The service trip will be held from 4 to 14 Jan 2024 (TBC). (Group 102)															

Fee payable by students	N/A
Service Attributes	
Service Mode Service Language Service Location	<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>) <input type="checkbox"/> #HybridService <input checked="" type="checkbox"/> #F2FService <input checked="" type="checkbox"/> #ServiceClient_Cantonese (Group 101) <input checked="" type="checkbox"/> #ServiceClient_English (Group 102) <input type="checkbox"/> #ServiceClient_Putonghua <input type="checkbox"/> #ServiceClient_OtherNonEnglish <input checked="" type="checkbox"/> #Location_HK (Group 101) <input type="checkbox"/> #Location_MainlandChina <input type="checkbox"/> #Location_Taiwan <input type="checkbox"/> #Location_Macau <input checked="" type="checkbox"/> #Location_Overseas (Group 102)
Enquiry	Ms. Jessie Kar (jessie.kar@polyu.edu.hk) Mr. Desmond Leung (dmleung@polyu.edu.hk)