

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) : 115 Group 102N (Thailand Team) : 32																					
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 102N: Yes (Interview: 3 to 5 July)																					
Subject Synopsis	https://polyu.hk/TikSX																					
Service Project																						
What will students do to serve?	<p>For Group 101, the service project in 2024 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/IGcng). 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. The final completion will be held on 8 Jan 2025.</p> <p>For Group 102N, the same competition mentioned above will be held in Surat Thani, Thailand. PolyU students will join hands with international students in Thailand to organise 5-day 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 102N: Youths and children in Thailand.																					
Where will students serve?	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30px;"><input checked="" type="checkbox"/></td> <td style="width: 300px;">Hong Kong</td> <td style="border-bottom: 1px solid black;">District: Shatin District, Yau Tsim Mong District and Southern District</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Chinese mainland</td> <td style="border-bottom: 1px solid black;">Province: _____</td> </tr> <tr> <td></td> <td></td> <td style="border-bottom: 1px solid black;">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 style="border-bottom: 1px solid black;">Country: Thailand</td> </tr> <tr> <td></td> <td></td> <td style="border-bottom: 1px solid black;">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
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When will students serve?	The activities will be held on Saturdays in Semester 1. (Group 101) The service trip will be held from 3 to 12 Jan 2025 (TBC). (Group 102N)
Fee payable by students	HK\$2000 (Group 102N)
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 101) <input checked="" type="checkbox"/> #ServiceClient_English (Group 102N) <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 102N)
Enquiry	Ms. Ryta Wong (Email: ryta-ching-yui.wong@polyu.edu.hk)