Updated on 30 Jan 2026

Subject Code	BME2S04S
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 301 (Hong Kong Team) : 70 Group 302N (Vietnam Team) : 32
Medium of Instruction	English
Subject Duration	Summer Term
Teaching Staff	Dr. Hin-chung Lau, Ms. Jessie Kar
Target Students	GUR, open for all students
Pre-requisites	Nil
Selection of students required?	Group 301: No [For Group 301, as most service beneficiaries are Cantonese-speaking secondary school students, PolyU students who speak Cantonese may have an advantage.] Group 302N: Yes
Subject Synopsis	https://polyu.hk/xTIpD

Service Project

What will students do to serve?	For Group 301, the service project will promote social integration among PolyU students, secondary 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 secondary 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. For Group 302N, the same competition mentioned above will be held in Vietnam. PolyU students will join hands with local University students to organise 5-day STEM workshops for underprivileged children. More information can be found in BME2S04S_Vietnam.pdf.
Whom will students serve?	Group 301: Secondary school students in Hong Kong Group 302N: Children in Vietnam
Where will students serve?	☒ Hong Kong — District: Tsuen Wan ☐ Chinese mainland — Province: City: ☐ Taiwan ☐ Macau ☒ Overseas — Country: Vietnam City: Ho Chi Minh
When will students serve?	The activities will be held in early July. (Group 301) The service trip will be held from 15 to 26 August (TBC). (Group 302N)
Fee payable by students	Group 301: N/A Group 302N: HK$2,000

Remarks: The information given above is subject to change.

Updated on 30 Jan 2026

Service Attributes	
Service Mode	☒ #OnlineService *(only if the service arrangement affected by COVID-19, hence students must be available in Hong Kong in case F2F services are possible)* ☒ #F2FService
Service Language	☒ #ServiceClient_Cantonese (Group 301) ☒ #ServiceClient_English (Group 302N) ☐ #ServiceClient_Putonghua ☐ #ServiceClient_OtherNonEnglish
Service Location	☒ #Location_HK (Group 301) ☐ #Location_MainlandChina ☐ #Location_Taiwan ☐ #Location_Macau ☒ #Location_Overseas (Group 302N)
Enquiry	Miss Ryta WONG (Email: cyr1wong@polyu.edu.hk)

Remarks: The information given above is subject to change.