

Subject Code	BME2S03S
Subject Title	Reducing the Scientific Divide in Secondary Students through STEM (Science, Technology, Engineering and Mathematics) Projects
Hosting Dept	Interdisciplinary Division of Biomedical Engineering
Level	2
Class Quota	160
Medium of Instruction	English As most service beneficiaries are Cantonese-speaking secondary school students, PolyU students who speak Cantonese may have an advantage.
Subject Duration	Summer Term
Teaching Staff	Dr. Hin-chung Lau, Dr. Yan Ping HUANG and Dr. Thomas Ming-hung Lee
Target Students	GUR, open for all
Pre-requisites	Nil
Selection of Students Required?	No
Subject Synopsis	https://www.polyu.edu.hk/bme/en/community-services/BME2S03
Service Project	
What will students do to serve?	The theme for 2016 is Muscle-electrical-signal controlled game (肌電遊戲機). The focus of the projects will be to cultivate a spirit of scientific literacy and thinking in secondary students. PolyU students will be involved in the learning, teaching and designing of muscle-signal controlled games to illustrate key STEM concepts to secondary students; designing worksheets to help students practice STEM concepts; organizing STEM awareness workshops, activities or competitions etc. The exact nature of the project may vary depending on the needs of the collaborating schools.
Whom will students serve?	Teenagers studying in underprivileged schools
Where will students serve?	Hong Kong
When will students serve?	Exact time may vary depending on the school to which PolyU students are attached. School A: 20, 21, 23, 24, 27 and 28 June.

	School B: 29 and 30 June, 4, 5, 7 and 8 July. School C: 4, 5, 6, 7, 8 and 11 July.
Fee payable by students	N/A
Enquiry	Dr. Hin-Chung LAU (Tel: 2766 7674; Email: hinchung.lau@polyu.edu.hk)