

Subject Code	BME3S02
Subject Title	Assistive Technologies: Service learning towards the elderly and disabled
Hosting Dept	Department of Biomedical Engineering
Level	3
Class Quota	60
Medium of Instruction	English
Subject Duration	Semester 1 + 2*  *end before semester 2 starts
Teaching Staff	Dr. James Cheung, Dr. Christina Ma,
Target Students	GUR for students with engineering, health care & design background
Pre-requisites	Nil
Selection of Students Required?	No
Subject Synopsis	<a href="https://www.polyu.edu.hk/bme/wp-content/uploads/2017/11/BME3S02.pdf">https://www.polyu.edu.hk/bme/wp-content/uploads/2017/11/BME3S02.pdf</a>
Service Project	
What will students do to serve?	<p>Service learning projects involving real-world clients will be organized through special schools for the people with disabilities, NGOs and other rehabilitation related organizations. During direct service rendering, students will be working in groups to tackle a specific need of the client that is presented to them. Students then will utilize their learned skills to analyse the situation and propose a solution. Whenever feasible, the students will construct the assistive device for the user.</p> <p>Examples of the projects include designing a device to facilitate daily activities; develop board game; accessing computer; conduct exercise and training; develop hard and software; playing a musical instrument, etc. The outcome of these projects can also include conceptual designs of a complex device or a working prototype.</p>
Whom will students serve?	Disabled students and older adults
Where will students serve?	<input checked="" type="checkbox"/> Hong Kong District: _____ <input type="checkbox"/> Chinese mainland Province: _____ City: _____

	<input type="checkbox"/> Taiwan <input type="checkbox"/> Macau <input type="checkbox"/> Overseas <div style="float: right; margin-top: 10px;"> Country: _____  City: _____ </div>
When will students serve?	Depending on collaborating agencies
Fee payable by students	N/A
Enquiry	Dr. James Cheung, <a href="mailto:james.chungwai.cheung@polyu.edu.hk">james.chungwai.cheung@polyu.edu.hk</a>