

Subject Code	BME3S02																					
Subject Title	Assistive Technologies: Service learning towards the elderly and disabled																					
Hosting Department	Department of Biomedical Engineering																					
Level	3																					
Class Quota	40																					
Medium of Instruction	English																					
Subject Duration	Semester 2 +3																					
Teaching Staff	Dr. Christina Zonghao MA, Dr. Hin Chung LAU																					
Target Students	GUR for Senior Year entry and Year 2 or above 4YUG Engineering, Health Care, Science, and Design students																					
Pre-requisites	Nil																					
Selection of students required?	No																					
Subject Synopsis	https://www.polyu.edu.hk/bme/wp-content/uploads/2017/11/BME3S02.pdf																					
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; accessing computer; 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?	<table border="0"> <tr> <td><input checked="" type="checkbox"/></td> <td>Hong Kong</td> <td>District: _____</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Chinese mainland</td> <td>Province: _____</td> </tr> <tr> <td></td> <td></td> <td>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 type="checkbox"/></td> <td>Overseas</td> <td>Country: _____</td> </tr> <tr> <td></td> <td></td> <td>City: _____</td> </tr> </table>	<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	Country: _____			City: _____
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When will students serve?	Depending on collaborating agencies																					
Fee payable by students	N/A																					

Service Attributes	
Service Mode	<input type="checkbox"/> #OnlineService <input checked="" type="checkbox"/> #F2FService
Service Language	<input checked="" type="checkbox"/> #ServiceClient_Cantonese <input type="checkbox"/> #ServiceClient_English <input type="checkbox"/> #ServiceClient_Putonghua <input type="checkbox"/> #ServiceClient_OtherNonEnglish
Service Location	<input checked="" type="checkbox"/> #Location_HK <input type="checkbox"/> #Location_MainlandChina <input type="checkbox"/> #Location_Taiwan <input type="checkbox"/> #Location_Macau <input type="checkbox"/> #Location_Overseas
Enquiry	Dr. Christina Zonghao MA, czh.ma@polyu.edu.hk Dr. Hin Chung LAU, hinchung.lau@polyu.edu.hk