

Subject Code	BME3S02																					
Subject Title	Assistive Technologies: Service learning towards the elderly and disabled																					
Hosting Department	Department of Biomedical Engineering																					
Level	3																					
Class Quota	100																					
Medium of Instruction	English																					
Subject Duration	Semester 1 + 2* *end before semester 2 starts																					
Teaching Staff	Dr. Christina Zonghao MA, Dr. Hin Chung LAU																					
Target Students	GUR for students with engineering, health care & design background																					
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 service recipients who will be 1) organized through special schools for the people with disabilities, hostels for older people, NGOs and other rehabilitation related organizations (hostel-oriented projects); or 2) identified by the students from their family members and neighbors who are in need of assistive technologies/products (home-/community-oriented projects). During direct service rendering, students will be working in groups to tackle a specific need of the service recipient that is presented to them or identified by them. Students then will utilize their learned skills to evaluate the situation and propose a solution. Whenever feasible, the students will construct the assistive device for the user. Examples of the projects include designing and manufacturing 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 style="border: none;"> <tr> <td style="width: 30px;"><input checked="" type="checkbox"/></td> <td style="width: 150px;">Hong Kong</td> <td style="border-bottom: 1px solid black; width: 100px;">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 type="checkbox"/></td> <td>Overseas</td> <td style="border-bottom: 1px solid black;">Country:</td> </tr> <tr> <td></td> <td></td> <td style="border-bottom: 1px solid black;">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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		City:																				
When will students serve?	Depending on collaborating agencies																					
Fee payable by students	N/A																					

Service Attributes	
Service Mode	<input type="checkbox"/> #OnlineService <input type="checkbox"/> #HybridService <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