

Subject Code	ISE3S01																					
Subject Title	Engineering for the Needy																					
Hosting Department	Department of Industrial and Systems Engineering																					
Level	3																					
Class Quota	60																					
Medium of Instruction	English																					
Subject Duration	Semester 2 + Summer Term																					
Teaching Staff	Prof. CY Tang, Dr. Gary Tsui																					
Target Students	GUR, open for year 2 or above students from FENG																					
Pre-requisites	COMP1901 or ENG1003																					
Selection of students required?	No																					
Subject Synopsis	https://www.polyu.edu.hk/ise/images/content/Subject/ISE3S01.doc																					
Service Project																						
What will students do to serve?	<p>Students are required to devote around 40 hours of community service learning at the sites of community partner(s) in the special needs/care education sector. Students require having direct interaction with the beneficiaries. Examples of such direct interaction may include analysis of beneficiaries' actual needs before embarking on designing and implementing the projects, product delivery and testing, collecting users' feedback and interactive design and development, etc.</p> <p>The service component consist of:</p> <ol style="list-style-type: none"> (1) Preproject visit to the community partner(s) to have better understanding of the underprivileged group; (2) Project preparation visits; (3) Interim visits during the projects; (4) Visits to deliver the project outcomes (i.e. developed system, designed products for the concerned group, etc.) (5) Final dissemination of the project outcomes (presentation of the project outcomes to the concerned group(s)) 																					
Whom will students serve?	Hong Kong service: concerned group of people with disabilities or need special care and the NGOs serving in the special needs education sectors and underprivileged																					
Where will students serve?	<table style="width: 100%; border: none;"> <tr> <td style="width: 30px;"><input checked="" type="checkbox"/></td> <td style="width: 200px;">Hong Kong</td> <td style="border-bottom: 1px solid black;">District: Tuen Mun</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: Tuen Mun	<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?	Exact time will vary depending on the community partner's capacity. Services will be carried out in summer term which last for 1-2 weeks.																					

Fee payable by students	Hong Kong: N/A
Subject and Service Attributes	
Teaching and Learning	<input type="checkbox"/> #OnlineTeaching <input checked="" type="checkbox"/> #HybridTeaching
Service Mode	<input type="checkbox"/> #OnlineService <input checked="" type="checkbox"/> #HybridService <input 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. Gary Tsui (gary.c.p.tsui@polyu.edu.hk)