Subject Description Form

Subject Code	BME31206						
Subject Title	Biomedical Engineering Clinical Attachment I						
Credit Value	4 Training Credits						
Level	3						
Prerequisite	BME11108 Biomedical Engineering in Society						
Objectives	To provide opportunities for students to integrate the theoretical and practical aspects of clinical application of BME – Prosthetics and Orthotics. Practical working experience in prosthetics and orthotics in the clinical setting will ensure the student can function as an effective entry-level member of staff, and so high professional standards and management abilities are aimed at. The use of initiative, creative thinking, problem-solving techniques are encouraged and self-evaluation and the development of self-confidence are emphasized.						
Intended Learning Outcomes	Five categories of professional training are emphasized: Professional Competency (PC); Professional Development (PD); Inter-Personal Relationship (IR); Communication Skill (CS); and Organization and Management (OM). On successful completion of this course, students should be able to:						
	 a. Perform in the real working environment of the prosthetics and orthotics discipline in clinical settings (PC & PD); 						
	b. Perform confidently in patient management (OM);						
	c. Work effectively and companionably within the working team (PC, PD, IR & CS);						
	d. Communicate effectively in the professional context with patients (IR & CS);						
	e. Present and interpret accurately, comprehensively, and concisely all matters pertaining to the patient management and in all other way communicate effectively with other professionals in the healthcare team (PC & CS);						
	f. Liaise and recommend, based on the concept of a multidisciplinary approach, referrals of patients to and from other healthcare personnel (IR & CS);						
	g. Document, compile, and interpret relevant information on patients or the						

and long-term approach to solve clinical problems (PD & OM); i. Plan, prioritize, and implement management programmes with the maximum degree of safety, effectiveness, and efficiency (PC, PD & OM); j. Execute competently the organization of time and space within professional practice (PC, PD & OM); k. Implement the principles of investigative methods in the working environment (PC & PD); l. Work according to the ethics of the profession (PC & PD). Contribution to Programme Outcome 1: Demonstrate an ability to apply knowledge of mathematics, science, and engineering appropriate to the Biomedic Engineering (BME) discipline. (Practice) Programme Outcome 5: Demonstrate an ability to understand the impa of BME solutions in a global and societal context, especially th importance of health, safety and environmental considerations to bo workers and the general public. (Practice) Programme Outcome 9: Demonstrate an ability to function in mult disciplinary teams. (Practice) Programme Outcome 11: Demonstrate an ability to communica effectively and advise clients, professional colleagues, and other membe of the community. (Practice) Programme Outcome 12: Demonstrate an ability to recognize the need for and to engage in life-long learning. (Practice) Programme Outcome 13: Demonstrate an understanding of contemporan issues. (Practice) Programme Outcome 13: Demonstrate an understanding of contemporan issues. (Practice) Programme Outcome 13: Demonstrate an understanding of contemporan issues. (Practice) Programme Outcome 13: Demonstrate an understanding of contem		
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Teaching and Learning Methodology	Working experience in Prosthetics or Orthotics setting and presentation. The students will be supervised by the Clinical Educator and Clinical Mentors.															
Assessment Methods in Alignment with	Specific assessment methods/tasks	% weighting	Intended subject learning outcomes to be assessed (Please tick as appropriate)													
Intended Learning Outcomes	methous/tasks		а	b	c	d	e	f	g	h	i	j	k	1		
	Student– mentor interactions	70%	\checkmark	\checkmark		\checkmark	\checkmark	\checkmark	\checkmark		\checkmark	\checkmark	\checkmark	\checkmark		
	Reports	15%	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		
	Presentations	15%	\checkmark	\checkmark	\checkmark	\checkmark		\checkmark	\checkmark	\checkmark	\checkmark			\checkmark		
	Total	100%														
	Explanation of the appropriateness of the assessment methods in assessing the intended learning outcomes:Student performance will be assessed based on the 5 categories of professional training mentioned above.													0		
Student Study	Class contact:															
Effort Expected	 Working in prosthetics or orthotics clinical setting 										280 Hrs.					
	 Presentation 									2 Hrs.						
	Other student study effort:															
	 Report preparation 								3 Hrs.							
	Total student study effort 2									23	285 Hrs.					
Reading List and References	BME Clinical Attachment Handbook, Department of Biomedical Engineering, The Hong Kong Polytechnic University															
Date of Last Revision	14 July 2014															
Date of Last Revision	1 June 2022															