Subject Description Form

Subject Code	BME41207						
Subject Title	Biomedical Engineering Clinical Attachment II						
Credit Value	4 Training Credits						
Level	4						
Prerequisite	ENG3XXX Engineering Professionals in Society II (pending approval); and BME31206 Biomedical Engineering Clinical Attachment I						
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						

	clinical scenario (PC, PD & OM);							
	h. Integrate theoretical knowledge and assessment findings to identify short-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);							
	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 Outcomes (Refer to	 Programme Outcome 1: Demonstrate an ability to apply knowledge of mathematics, science, and engineering appropriate to the Biomedical Engineering (BME) discipline. (Practice and Measure) 							
Part I Section 10)	 Programme Outcome 5: Demonstrate an ability to understand the impact of BME solutions in a global and societal context, especially the importance of health, safety, and environmental considerations to both workers and the general public. (Practice and Measure) Programme Outcome 9: Demonstrate an ability to function in multidisciplinary teams. (Practice and Measure) Programme Outcome 10: Demonstrate an understanding of professional and ethical responsibility. (Practice and Measure) Programme Outcome 11: Demonstrate an ability to communicate effectively and advise clients, professional colleagues, and other members of the community. (Practice and Measure) Programme Outcome 12: Demonstrate an ability to recognize the need for, and to engage in life-long learning. (Practice and Measure) Programme Outcome 13: Demonstrate an understanding of contemporary issues. (Practice and Measure) 							
Subject Synopsis/ Indicative Syllabus	The importance of continuing education and applying investigative methods within later professional development is reinforced. The prosthetics and orthotics clinical training will focus on the student's ability in applying academic knowledge to solve assigned work tasks; learning new professional tools and techniques; following professional and ethical responsibilities; effectiveness in verbal and written communication as well as participations in team working. Questions and immediate feedback of the student–mentor interaction is an important part of the learning/teaching.							
Teaching and Learning Methodology	Working experience in Prosthetics and Orthotics setting and presentation. The students will be supervised by the Clinical Educator and Clinical Mentors.							

Assessment Methods in Alignment with Intended Learning Outcomes	Specific % weighting methods/tasks			Intended subject learning outcomes to be assessed (Please tick as appropriate)												
			a	b	С	d	e	f	g	h	i	j	k	1		
	Student— mentor interactions	70%	√	V	V	√	V	V	V	1	V	√	1	√		
	Reports	15%		1	1		1	1	1	V	V		V	1		
	Presentations	15%	√	V	V	V	1	V	V	V	V	V	V	√		
	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.															
Student Study Effort Expected	Class contact:															
	 Working in prosthetics or orthotics clinical setting 									280 Hrs.						
	■ Presentation									2 Hrs.						
	Other student study effort:															
	■ Report preparation								3 Hrs.							
	Total student study effort								285 Hrs.							
Reading List and References	Nil															
Date of Last Major Revision	11 June 2021															
Date of Last Minor Revision	20 August 2025															