MEDICAL ORTHOTICS & PROSTHETICSEERING

2022 HANDBOOK





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HANDBOOK FOR 2022

FACULTY of

HEALTH

SCIENCES

DEPARTMENT of MEDICAL ORTHOTICS and PROSTHETICS

What is a University of Technology?

A university of technology is characterized by being research informed rather than research driven where the focus is on strategic and applied research that can be translated into professional practice. Furthermore, research output is commercialized thus providing a source of income for the institution. Learning programmes, in which the emphasis on technological capability is as important as cognitive skills, are developed around graduate profiles as defined by industry and the professions.

NOTE TO ALL REGISTERED STUDENTS

Your registration is in accordance with all current rules of the Institution. If, for whatever reason, you do not register consecutively for every year/semester of your programme, your existing registration contract with the institution will cease. Your reregistration anytime thereafter will be at the discretion of the institution and, if permitted, will be in accordance with the rules applicable at that time.

IMPORTANT NOTICES

The rules in this departmental handbook must be read in conjunction with the General Rules (G Rules) contained in the DUT General Handbook for Students as well as the relevant module Study Guides.

Your attention is specifically drawn to Rule G1 (8), and to the process of dealing with students issues.

FACULTY of HEALTH SCIENCES

FACULTY VISION, MISSION, & VALUES

Vision

"Leading Transformative and Innovative Health Sciences Education"

Mission Statement

"Developing Holistic Professionals responsive to Healthcare needs

Through excellence in:

- Teaching and Learning
- Research, Innovation and Engagement
- Fostering Entrepreneurship

Values Professionalism

(To work within regulatory frameworks of professional conduct. To maintain and develop professional expertise and good work ethic).

Integrity

(To conduct ourselves with strong moral principles. To be honest and authentic. To do what is ethical and just).

Ubuntu

(To treat people with respect, fairness, courtesy, politeness and kindness).

Transparency

(To conduct ourselves with openness and honesty through shared governance).

Accountability

(To accept responsibility for ones actions).

DEPARTMENTAL MISSION VALUES & GOALS

Vision:

Pioneering **Scholarship and Innovation** in Orthotics and Prosthetics **Mission:**

"Developing Practitioners responsive to Global Orthotic and Prosthetic needs"

through:

- I. Teaching and Learning
- 2. Research and Engagement
- 3. Entrepreneurship
- 4. Technology and Advancement

VALUES

• Integrity

(Non- maleficence: Do no harm. Honesty. Fairness. Transparency)

• Professionalism

(Maintaining ethical standards, principles and guidelines. Independent, proactive and self-sufficient)

Compassion

(To understand, have empathy and consider another's situation)

• Creativity

(Logic. Out-the-box thinking. Think on your feet. Question. Be authentic. Uniqueness. Stand out)

Departmental Goals:

- \circ To strategically position the department in the Higher Education sector.
- \circ To advance education and research in orthotics and prosthetics.
- To enrich teaching and learning in orthotics and prosthetics through mechanisms designed for continuous improvement.
- \circ $\,$ To continually advance scholarship and expertise of all stakeholders.
- \circ $\,$ To partner with, and engage in, community advancement initiatives.
- \circ $\,$ To adopt an ethos of excellence in Higher Education.

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I. DEPARTMENTAL & FACULTY CONTACT DETAILS

All departmental enquiries to:

Secretary Tel No Email Location of Department	: Ms Nosipho Thabethe : (031) 373 6723 : <u>nosiphot@dut.ac.za/oandp@dut.ac.za</u> : Wentworth Hospital, No I Boston Road,
	Wentworth
All Faculty enquiries to:	
Faculty officer	: Ms Fortunate Thembelihle Mayisela
Tel No	: (031) 373 2701
Email	: <u>thembim@dut.ac.za</u>
Location	: Health Faculty Office, Gate 8, Steve Biko Road,
	Mansfield Site Area, Ritson Campus
Executive Dean	: Prof Gugu Mchunu
Executive Dean's Secretary	: Mrs Bilkish Khan
Tel No	: (031) 373 2704
Email	: <u>bilkishk@dut.ac.za</u>
Location	: Executive Dean's Office, Gate 8, Steve Biko Road,
	Mansfield Site Area, Ritson Campus

2. STAFFING Name and Qualification

Head of Department:

Mr B Nothling: NHD: Med Orth & Prosth (TUT)

(Acting)

Lecturers/ Clinical Instructors:

Mrs Corli von Solms: B Tech MOP (TUT)

Ms C Jacob: BHSc: Med Orth & Prosth (DUT)

Secretary:

Ms NNP Thabethe: Master of Management Sciences specializing in Marketing; B.Tech: Bus Admin (DUT)

3. DEPARTMENTAL INFORMATION & RULES

3.1 PROGRAMMES OFFERED BY THE DEPARTMENT

The department offers only one programme namely: Medical Orthotics and Prosthetics

3.2 QUALIFICATIONS OFFERED BY THE DEPARTMENT

Only one qualification is offered in this department. Upon successful completion, the learning programme will lead to the award of the following qualification.

Qualification	Qual Code	SAQA NLRD Number	Important dates
BHSc. (Medical Orthotics and Prosthetics)	внморз	91786	First offered in July 2013

3.3 DEPARTMENTAL INFORMATION

The graduates from this profession will be able to apply required skills and expertise for both Orthotics and prosthetics. Orthotics is the branch of medicine that provides splints, braces or special footwear to their patients, while prosthetics is the branch of medicine that designs and creates artificial body parts that match the missing limb as closely as possible. Offering of the current Bachelor of Health Sciences in Medical Orthotics and Prosthetics (BHSc: MOP) began in 2013. The department is a component of the Faculty of Health Sciences at the Durban University of Technology and is based at Wentworth Hospital on the Southern part of the eThekwini District of the KwaZulu-Natal province.

The following information must be read in conjunction with the programme rules.

3.3.1 Academic Integrity

Attention is drawn to the General Rules pertaining to academic integrity GI3(1)(o). These will be enforced wherever necessary to safeguard the worthiness of our qualifications, and the integrity of the Faculty of Health Sciences at the DUT.

3.3.2 Code of Conduct for Students/Confidentiality

In addition to the DUT General Rules pertaining to Student Conduct SR3(3), a professional code of conduct pertaining to behaviour, appearance, personal hygiene, and dress shall apply to all students registered with the Faculty of Health Sciences, at all times.

Due to the nature of this course and the clinical environment that is encountered on a daily basis, strict patient confidentiality and respect needs to be adhered to at all times. Please consider the patient as well as the family of the patient.

Use common sense and empathy in your approach, so that an understanding of trust and care is fostered and nurtured between you and your patient (See Rule 4.3.8).

3.3.3 Uniforms

Students must adhere to instructions regarding specific uniforms required during practical's and clinic sessions. Because of public interaction in the clinical environment, it is important to maintain a high standard of dress code and behaviour (See Rule 4.3.8).

3.3.4 Attendance

Students are encouraged to achieve 100% attendance for all planned academic activities, as these are designed to provide optimal support for the required competency. Where absence is unavoidable, the student must timeously advise the department of the reason. Only exceptional reasons will be accepted for absence from guest lectures, industry or field trips. Poor attendance records may lead to penalties. Where absence impacts on assessment, rule 4.3.3.2 below will be applied.

3.3.5 Health and Safety

Students must adhere to all Health and Safety regulations both at DUT and in Work Integrated Learning (WIL) placements. Failure to do so will be treated as a breach of discipline. Extreme care and caution need to be observed, as working in the laboratories could present itself with potentially hazardous situations where injury can occur. Please respect these rules, for your own safety and protection, as well as for those around you.

The Department of MOP's additional requirements for laboratory or clinics includes the use of safety equipment required for laboratory or clinical work, as well as infection control (latex gloves, safety glasses, safety footwear and ear plugs), when required. Use of the laboratories will be dependent on students following the rules, regulations, policies and procedures of the facility that will be on display within the labs.

3.3.6 Work Integrated Learning

Work integrated learning (WIL) is mandatory for all students in their 4th year of study, namely Clinical practice 4 A and 4B. 1000 clinical/practical hours must be fulfilled in year 4, of which 20% may be covered in year 3. The onus is on the student to find placement, albeit that the department will liaise with private and government institutions to help facilitate WIL as far as possible. It should be noted that placement for WIL must be at a DUT or the Health Professions Council of South Africa (HPCSA) accredited facility of the students choice. Should a student identify a facility that is not DUT accredited, the student may request that the department of MOP visit that facility for the process of accreditation. If the facility identified meets the necessary requirements then the DUT shall accredit that facility for the WIL aspect of the programme. Department of Health Orthotic and Prosthetic facilities and hospitals may be approached not only in KZN but in all provinces. Should the need arise, then alternative suitable sites of WIL may be sourced within South Africa. Additional placement for Advanced Clinical Practice will be the choice of the student at any national or international centre. The DUT MOP clinic is to be utilised as a last resort and is not encouraged.

3.3.7 Serviced Modules

Students need to familiarise themselves with the guides and specific rules that may apply to serviced modules, and with the departments running these modules.

3.3.8 Registration with the Professional Board

3.3.8.1 Registration as a Student

Within two weeks of registration with the Department of MOP students are required to register as Student Orthotists and Prosthetists with the HPCSA, as determined in the regulations set out in the Health Professions Act, Act No. 56 of 1974, as amended by Act No. 29 of 2007, and on the recommendation of the HPCSA by submission of Form 53 as well as the relevant fee.

3.3.8.2 Registration as a Graduate

On successful completion of the qualification, and the completion of the required hours of Clinical Practice, accumulated in the 3rd and fourth year of study, a graduate who has satisfied the requirements of the Professional Board for Occupational Therapy, Medical Orthotics and Prosthetics and Arts Therapy, may register as a qualified Medical Orthotist and Prosthetist with the HPCSA. The HPCSA has the authority to institute a further six months supervised practice, should the student not have met the desired HPCSA

requirements for independent practice registration. Further registration with the Board of Healthcare Funders of SA [BHF] is permitted after the graduate has received his/her HPCSA registration as an independent practitioner.

3.3.9 Code of Conduct for Students

In addition to the General rules pertaining to Student Conduct SR(3), a professional code of conduct pertaining to behaviour, appearance, personal hygiene and dress code shall at all times apply to all students registered with the Faculty of Health Sciences.

- Students registered in the programme will be required to adhere to the dress code as determined by the Head of the Programme, with regard to specific uniforms required during practical's and clinic sessions. The uniform required is a white clinic coat or scrub recommended by DUT, to be worn separately or over normal attire. Formal trousers or denim jeans, black or charcoal in colour, and the use of safety boots and aprons, are required in the laboratory.
- Students are not allowed to access the general Wentworth Hospital facilities, unless for bona fide medical reasons. In those cases where access is required, supervised access may be granted.
- Students must adhere to all Health and Safety regulations, both at DUT's Wentworth Hospital teaching facility, at the DUT main campus, and in clinical placements. Failure to do so will be treated as a breach of discipline. Students are required to follow the correct channels of communication at all times. This begins with the students lecturer, thereafter the line of communication will only be entertained by the HOD should the lecturer not have resolved or attended to the request.
- Students are to advise any faults discovered on machinery immediately to the lecturer delivering clinical practice. Injuries from faulty or broken equipment can seriously injure a student or lecturer and can be avoided by reporting the fault immediately.
- It remains the students responsibility to keep work stations clean at all times. Work in the plaster room will be contingent on the plaster room having been cleaned properly each day. Cleaning staff are not responsible to clean after students, but merely keep the facility and ablutions respectable.
- Immunisation against Hepatitis A&B is compulsory. Immunisation will be facilitated through the MOP programme.
- Students must be in possession of a valid first-aid certificate in order for the qualification to be issued. This will be facilitated through the MOP programme. Students missing the specified course will be required to earn their own certificate at their own cost.

4. BACHELOR OF HEALTH SCIENCES IN MEDICAL ORTHOTICS & PROSTHETICS (BHMOP3)

4.1 **PROGRAMME INFORMATION**

The Bachelor of Health Sciences in Medical Orthotics and Prosthetics is registered by the SAQA at NQF level 8 of the HEQSF. The programme is a professional degree with a minimum of 480 SAQA credits and allows vertical articulation into appropriate masters degree.

The qualifying graduate will be able to competently apply and integrate theoretical principles, evidence-based techniques, practical experience, clinical procedures, and appropriate skills. The programme of study will produce a well-rounded graduate who will be capable of practicing as a clinician, developing and managing a clinic or a laboratory, or providing services as a private practitioner. The graduating student will be a team player capable of working in multidisciplinary teams, with the ability to constructively advance the profession.

4.1.1 Purpose

The purpose of this qualification is to develop a graduate competent in the knowledge, attitudes, insight and skills required for the orthotic and prosthetic professions.

	-	SF	Assessme nt type (CA/E)	-	Pre-Requisite Modules	Co-requisite Modules
			Yea	ar I		
PSIC101	Physics	5	CA	12		
CSTN10 I	Cornerstone	5	CA	12		
MTMS10 1	Mathematics	5	CA	8		
	Materials Science	5	CA	12		
BIMC101	Biomechanics I	6	CA	16		
ANMY10	Anatomy I	6	CA	20		
	Principles of Orthotics and		Ca	28		

4.1.2 Programme Structure

r	Prosthetics I							
	Clinical Practice	г	CA	24				
CLCPIUI	Clinical Practice	Э	CA	24				
	Year 2							
CGRC10	Computer and	6	CA	12				
1	graphical	•						
	communication							
ETRN I 0	Electronics	6	CA	8	BIMC101&PSIC1			
1		-	-	-	01			
ANMY20	Anatomy II	6	CA	12	ANMY101			
1	,							
CHRI101	Community	6	CA	12				
	Health Care and							
	Research-Intro							
PYSL102	Physiology for	6	CA	16				
	MOP							
BIMC201	Biomechanics 2	7	CA	12	BIMC101&PSIC1			
					01			
POPR20	Principles of		CA	28	POPR101,BIMC			
1	Orthotics and				101,			
	Prosthetics II				CLCPI0I			
CLCP201	Clinical Practice	6	CA	28	CLCPI0I,			
	11				BIMC101			
				-	&POPR101			
EMDL10		7	CA	8				
<u> </u>	Medical Law							
<u></u>		-		ar 3				
	Community	7	CA	12	CHRIIOI			
1	Healthcare and							
	Research-							
CLCSIO	Intermediate Clinical Studies I	4	CA	16	PYSLI0I,ANMY			
CLCSIOI		0		10	101 &201			
PYCLIOL	Psychology	7	CA	12				
BPHYIOI		, 6	CA	12	PYSLI0I,ANMY			
	Pharmacology	5	57	, <u>,</u>	101 & 201			
BIMC 301	Biomechanics III	8	CA	12	BIMC101&201,P			
		Č	C , (OPR101&201			
POPR30	Principles of	7	CA	32	POPR101&201,B			
1	Orthotics and	-			IMC201,CLCP20			
	Prosthetics III							
CLCP301	Clinical Practice	7	CA	24	POPR201,BIMC			
	III				201,CLCP201			
			Yea	ar 4	• • • • • •			

CLCS201	Clinical Studies II	7	CA	24	CLCS101	
CLPO40	Clinical Practice	8	CA	32	CLCP301,POPR	
I	IVA (Orthotics)				301	
CLPP401	Clinical Practice	8	CA	32	CLCP301,POPR	
	IVB (Prosthetics)				301	
CLBM10	Clinic,	8	CA	16		
I	Laboratory and					
	Business					
	Management					
CHRA10	Community	8	CA	12	CHRII0I,CHRN	
I	Healthcare and				101	
	research-					
	Advanced					
ACLP401	Advanced	8	CA	8	CLCP301,POPR	
	clinical practice				301	

4.2 PROGRAMME RULES

In addition to the rules in the General Handbook, the following programme rules apply:

4.2.1 Minimum Admission Requirements

In addition to Rule G7, the following requirements must be met: National Senior Certificate (NSC) with endorsement for degree entry, with the following subjects:

DEPARTMENTAL NSC REQUIREMENTS		DEPARTMENTAL SENIOR CERTIFICATE REQUIREMENTS			
National Senior Certifica with endorsement for deg with the following subject.	()	A Senior Certificate with exemption with the followir the appropriate ratings.			
NSC					
Compulsory Subjects	Rating Code	Compulsory Subjects	HG	SG	
English (home)	3	English	Е	С	
Life Sciences	4	Biology	D	В	
Physical Sciences	4	Physical Sciences	D	В	
Mathematics 4		Mathematics	D	В	
As well as two additional 20 credit subjects only one of which may be an additional					

language with a NSC rating of 4

(Approved: Senate 29/08/2012)

4.2.1.1 Admission requirements based upon Work Experience, Age and Maturity, and RPL

The DUT general rules G7 (3) and G7 (8), respectively apply.

4.2.1.2 Admission of International students

The DUT's Admissions Policy for International Students, and General Rules G4 and G7 (5) apply. (Approved: Senate 29/08/2012)

4.2.2 Selection Criteria

In accordance with Rule G5, acceptance into the programme is limited to 30 places. As more qualifying applications are received than can be accommodated, the following selection process determines placement in the programme:

- All applicants must apply through the Central Applications Office (CAO).
- Initial shortlisting for selection is based on the applicant's academic performance in Grade 12 (Grade 11, or Grade 12 trial marks, will be used for current matriculants). i) Applicants must have:
- a) Normal eye sight. Spectacles/contact lenses that provide 20/20 vision are considered acceptable.
- b) Completed at least **8 hours** of voluntary service in a Prosthetic and Orthotic environment, for which a report from the visited institution /site must be submitted prior to being invited to the interview process. This is not a standard form just a letter of your attendance. Applicants who meet the above criteria:
- c) Will be invited to a manual dexterity test and an interview.
- d) Applicants will be ranked on points earned according to the table below:

Assessment	Weighting
Results of the Senior Certificate or National Senior Certificate	35%
Dexterity Score	40%
Interview Score	25%

e) The 30 top-ranked applicants will be selected for access into the programme. (Approved: Senate 29/08/2012)

4.2.3 Assessment and Moderation

Students are encouraged to work steadily through the period of registration in order to achieve the highest results possible.

- Due to COVID-19 related restricts some assessment might have to be undertaken virtually. In addition some summative assessments might also have to be changed to continuous assessment methods. Clarity on the nature of assessments will be communicated to students upon receipt of relevant decisions from university management.
- Assessment details are listed under each module at the back of this handbook.
- Moderation follows the DUT requirements.
- Assessment includes both formative and summative assessment.
- A variety of assessment methods are used which include, but are not limited to, written tests, oral tests, OSCE testing, practical and clinical examinations, group work and assignments.
- Where applicable, the year mark component for those modules where a final examination is written is 40% of the final result.
- Where applicable, the final examination may comprise of theory or practical elements, or both theory and practical elements, and will constitute 60% of the final mark.
- Further to DUT rules G14 and G15, the final mark for examined modules is determined as follows: Final mark (100%) = 40% year mark + 60% final examination mark.
- For modules that do not have a final examination, the results are determined through a weighted combination of assessments, as described in the study guides. There are no supplementary examinations for these modules. The course mark then constitutes 100% of the final mark.

(Approved: Senate 29/08/2012)

4.2.4 Special Tests and Condonement

No missed assessments will be condoned.

- If a student misses an assessment for reasons of illness, a special assessment may be granted if the student provides a valid medical certificate specifying the nature and duration of the illness, and a declaration that for health reasons it was impossible for the student to sit for the assessment. This certificate must be submitted to the Head of Programme no later than five (5) working days after the "fit for duty" date on the medical certificate.
- If a student misses an assessment for reasons other than illness, a special assessment may be granted if the student provides a valid declaration that for unavoidable reasons it was impossible for the student to sit for the assessment. This certificate must be submitted

to the Head of Programme no later than two (2) working days after the date of the missed assessment.

- Any student who misses an assessment and who does not qualify for a special assessment, and any student who qualifies for a special assessment but who fails to write it, shall be awarded a zero mark for the missed assessment.
- Any student who fails to submit an assignment on time will be penalized with a 5% deduction in marks for each day that the assignment remains outstanding, subject to a student producing a valid reason or a Doctors certificate.

4.2.5 Re-registration rules

Rule G16 of the General Handbook for students applies.

(Approved: Senate 29/08/2012)

4.2.6 **Progression Rules**

A first year student who fails 50% + 1 modules with an average of less than 40% in the failed modules, at the end of year 1 of study shall not be permitted to re-register in the Medical Orthotics and Prosthetics programme. De-registration from any module is subject to the provisions of rule G6 (2)*.

In addition to the above, rules G14*, G16*, G17 and G23B* are applicable. (Approved: Senate 13/11/2019)

4.2.7. Interruption of studies

In accordance with Rule G23 B(2) and (3), the minimum duration for this NQF level 8 programme will be four (4) years of registered study, and the maximum duration will be six (6) years of registered study, including any periods of WIL. Should a student interrupt their studies by more than three (3) years, the student will need to apply to the department for permission to reregister and will need to prove currency of appropriate knowledge prior to being given permission to continue with registration. (Approved: Senate 29/08/2012)

3.3.9 Student Appeals

Rule GI (8) of the DUT General Handbook applies.

5. MODULE CONTENT

NB: Students are to read this section in conjunction with the relevant study guide. Detailed assessment plans will be found in the Study Guides.

Module name & code	Learning areas/ content	Assessment Plan	
Year I			
PHYSICS (PSIC101)	Terminology and units, Vector and scalar	48 contact hours/ 12 hours	20 notional
	quantities, Linear/angular	Lectures	48hrs
	motion and motion of a	Tutorials	18hrs
	solid body, Resolution of	Independent study	48hrs
	forces and movements in	Assessment	6hrs
	two dimensions, Equations	Assessment Plan —	There is no
	of equilibrium, Free body	final examination for	this module.
	diagrams, Calculations of	See Study Guide for	details.
	centre of gravity and mass,	,	
	Newton's Laws of Motion,		
	Work, power and energy,		
	Strength of materials:		
	stress, strain and Hooke's		
	Law.		
Cornerstone(CSTN101)	Serviced by the institution	48 contact hours/120 notional	
		hours	
MATHEMATICS	Elementary mathematics:	32 contact hours/ 8	0 notional
(MTMSI0I)	simple algebraic	hours	
	manipulation, indices,	Lectures	32hrs
	logarithms, solution of	Tutorials	8hrs
	equations, trigonometric	Independent study	36hrs
	functions, standard	Assessment	4hrs
	trigonometric identities,	Assessment Plan	—See Study
	solution of simple	Guide for details.	
	trigonometric equations;		
	Functions: polynomial,		
	rational, exponential,		
	logarithmic;		
	Differentiation: simple		
	techniques, use in		
	optimisation and curve		
	sketching; Integration:		
	simple techniques,		

The year one / level one modules are afforded in the first and / or second semester.

			1
	evaluation of areas, use of approximation procedures; Differential equations: first order equations, uses in biological modelling; Mastery and usage of resources such as		
	mathematical table,		
MATERIALS SCIENCE	formulae and calculators. Steel and its alloys, Non-	48 contact hours/ 12	0 notional
(MTSCIOI)	ferrous metals and their alloys; Plastics: thermo- forming, thermosetting; Composites, polyurethanes/E.V.A., Silicones, Wood, Leather, Plaster of Paris, Adhesives.	hours Lectures Assignments Independent study Assessment Assessment Plan final examination for See Study Guide for	48hrs 15hrs 48hrs 14hrs —There is no this module.
BIOMECHANICS I (BIMC101) -	The anatomical planes and reference points of the body; Ranges of movement (lower/upper limbs and spine), normal gait (introduction to kinematics, kinematics and EMG studies), introduction to amputee and pathological gait, Kinematic analysis of limbs; Introduction to relevant biological tissues and their mechanical properties; Prosthetic and orthotic measurement techniques; Anatomical joint types, their functions and interactions; Muscle physiology and biomechanics in relation to joint functions; The interaction of anatomical joints and prosthetic/orthotic joints;	64 contact hours/ 16 hours Lectures Practical's Tutorials Case studies Independent study Assessment Assessment Plan final examination for See Study Guide for	32hrs 24hrs 16hrs 16hrs 64hrs 8hrs —There is no this module.

1			
	Normal human locomotion		
	and the gait cycle;		
	Kinetic and kinematic		
	analysis and the calculation		
	of external and internal		
	force actions;		
	Biomechanics of the lower		
	limb, General socket		
	biomechanics/biomechanical		
	principles of cast		
	rectification, Transtibial		
	socket biomechanics and		
	alignment biomechanics,		
	Transfemoral socket		
	biomechanics and alignment		
	biomechanics; Lower limb		
	prosthetic components and		
	their application; Foot		
	biomechanics —analysis of		
	joint forces (normal,		
	pathological, effects of		
	footwear).		
	iootwear).		
	Module content	120 contact hours/ 2	Onotional
	Module content	120 contact hours/ 2	.00notional
ANATOMY I (ANMY101)	Introduction and Definition	hours	
	Introduction and Definition of anatomy; Anatomical	hours Theory	20hrs
	Introduction and Definition of anatomy; Anatomical position, Anatomical	hours Theory Practical's	20hrs 60hrs
	Introduction and Definition of anatomy; Anatomical position, Anatomical terminology and terms of	hours Theory Practical's Self-study	20hrs 60hrs 120hrs
	Introduction and Definition of anatomy; Anatomical position, Anatomical terminology and terms of reference, Anatomical	hours Theory Practical's Self-study Assessment Plan -	20hrs 60hrs 120hrs —There is no
	Introduction and Definition of anatomy; Anatomical position, Anatomical terminology and terms of reference, Anatomical planes and movements;	hours Theory Practical's Self-study Assessment Plan - final examination for	20hrs 60hrs 120hrs —There is no this module.
	Introduction and Definition of anatomy; Anatomical position, Anatomical terminology and terms of reference, Anatomical planes and movements; Integumentary system;	hours Theory Practical's Self-study Assessment Plan -	20hrs 60hrs 120hrs —There is no this module.
	Introduction and Definition of anatomy; Anatomical position, Anatomical terminology and terms of reference, Anatomical planes and movements; Integumentary system; Introduction to Systems:	hours Theory Practical's Self-study Assessment Plan - final examination for	20hrs 60hrs 120hrs —There is no this module.
	Introduction and Definition of anatomy; Anatomical position, Anatomical terminology and terms of reference, Anatomical planes and movements; Integumentary system; Introduction to Systems: Skeletal; Muscular (muscle	hours Theory Practical's Self-study Assessment Plan - final examination for	20hrs 60hrs 120hrs —There is no this module.
	Introduction and Definition of anatomy; Anatomical position, Anatomical terminology and terms of reference, Anatomical planes and movements; Integumentary system; Introduction to Systems: Skeletal; Muscular (muscle tissue, architecture of	hours Theory Practical's Self-study Assessment Plan - final examination for	20hrs 60hrs 120hrs —There is no this module.
	Introduction and Definition of anatomy; Anatomical position, Anatomical terminology and terms of reference, Anatomical planes and movements; Integumentary system; Introduction to Systems: Skeletal; Muscular (muscle tissue, architecture of muscle); Articular;	hours Theory Practical's Self-study Assessment Plan - final examination for	20hrs 60hrs 120hrs —There is no this module.
	Introduction and Definition of anatomy; Anatomical position, Anatomical terminology and terms of reference, Anatomical planes and movements; Integumentary system; Introduction to Systems: Skeletal; Muscular (muscle tissue, architecture of muscle); Articular; Cardiovascular and	hours Theory Practical's Self-study Assessment Plan - final examination for See Study Guide for	20hrs 60hrs 120hrs —There is no this module.
	Introduction and Definition of anatomy; Anatomical position, Anatomical terminology and terms of reference, Anatomical planes and movements; Integumentary system; Introduction to Systems: Skeletal; Muscular (muscle tissue, architecture of muscle); Articular; Cardiovascular and Nervous. Back, Upper limbs	hours Theory Practical's Self-study Assessment Plan - final examination for See Study Guide for	20hrs 60hrs 120hrs —There is no this module.
	Introduction and Definition of anatomy; Anatomical position, Anatomical terminology and terms of reference, Anatomical planes and movements; Integumentary system; Introduction to Systems: Skeletal; Muscular (muscle tissue, architecture of muscle); Articular; Cardiovascular and Nervous. Back, Upper limbs and Lower limbs	hours Theory Practical's Self-study Assessment Plan - final examination for See Study Guide for	20hrs 60hrs I 20hrs —There is no this module. details.
(ANMY101)	Introduction and Definition of anatomy; Anatomical position, Anatomical terminology and terms of reference, Anatomical planes and movements; Integumentary system; Introduction to Systems: Skeletal; Muscular (muscle tissue, architecture of muscle); Articular; Cardiovascular and Nervous. Back, Upper limbs and Lower limbs Transtibial Prosthetics:	hours Theory Practical's Self-study Assessment Plan - final examination for See Study Guide for See Study Guide for	20hrs 60hrs I 20hrs —There is no this module. details.
(ANMYIOI) PRINCIPLES OF	Introduction and Definition of anatomy; Anatomical position, Anatomical terminology and terms of reference, Anatomical planes and movements; Integumentary system; Introduction to Systems: Skeletal; Muscular (muscle tissue, architecture of muscle); Articular; Cardiovascular and Nervous. Back, Upper limbs and Lower limbs Transtibial Prosthetics: Transtibial Prosthetic	hours Theory Practical's Self-study Assessment Plan - final examination for See Study Guide for See Study Guide for	20hrs 60hrs I 20hrs —There is no this module. details.
(ANMY101) PRINCIPLES OF ORTHOTICS AND	Introduction and Definition of anatomy; Anatomical position, Anatomical terminology and terms of reference, Anatomical planes and movements; Integumentary system; Introduction to Systems: Skeletal; Muscular (muscle tissue, architecture of muscle); Articular; Cardiovascular and Nervous. Back, Upper limbs and Lower limbs Transtibial Prosthetics: Transtibial Prosthetic Types, Post-operative	hours Theory Practical's Self-study Assessment Plan - final examination for See Study Guide for See Study Guide for I 12 contact hours/ 2 hours Lectures	20hrs 60hrs 120hrs —There is no this module. details. 280 notional 56hrs
(ANMY101) PRINCIPLES OF ORTHOTICS AND PROSTHETICS I	Introduction and Definition of anatomy; Anatomical position, Anatomical terminology and terms of reference, Anatomical planes and movements; Integumentary system; Introduction to Systems: Skeletal; Muscular (muscle tissue, architecture of muscle); Articular; Cardiovascular and Nervous. Back, Upper limbs and Lower limbs Transtibial Prosthetics: Transtibial Prosthetic Types, Post-operative fitting, Management of	hours Theory Practical's Self-study Assessment Plan - final examination for See Study Guide for See Study Guide for lours Lectures Practical's	20hrs 60hrs 120hrs —There is no this module. details. 280 notional 56hrs 42hrs
(ANMY101) PRINCIPLES OF ORTHOTICS AND	Introduction and Definition of anatomy; Anatomical position, Anatomical terminology and terms of reference, Anatomical planes and movements; Integumentary system; Introduction to Systems: Skeletal; Muscular (muscle tissue, architecture of muscle); Articular; Cardiovascular and Nervous. Back, Upper limbs and Lower limbs Transtibial Prosthetics: Transtibial Prosthetic Types, Post-operative	hours Theory Practical's Self-study Assessment Plan - final examination for See Study Guide for See Study Guide for I 12 contact hours/ 2 hours Lectures	20hrs 60hrs 120hrs —There is no this module. details. 280 notional 56hrs

	and Casting Techniques,	Independent study	112hrs
	Transtibial prosthetic	Assessment	14hrs
	componentry and	Assessment Plan -	
	manufacturing devices;	final examination for	
	Footwear and Foot	See Study Guide for	
	Orthotics: The	See Study Guide Ior	details.
	Orthopaedic Shoe,		
	Footwear and Adaptations; Foot Orthotics:		
	Introduction to foot		
	orthotics, Innersoles,		
	UCBL, Day Splints/ Night		
	Splints, Extensions, Pads,		
	bars and domes, Diabetics		
	and Wound healing,		
	Chronic and Acute		
	conditions, Prefabricated,		
	System innersoles by		
	numbers, Combination devices, CAD CAM		
	,		
	Technology, Plaster and Casting Techniques,		
	Footwear and foot		
	orthotics componentry and		
	manufacturing devices; Ankle-Foot-Orthotics-		
	Introduction to ankle foot		
	orthotics, Functional goals		
	of below the knee		
	orthoses, Orthotic,		
	Orthopaedic And		
	Anatomical Terminology,		
	Clinical Procedures, The		
	Orthotics and Prosthetics		
	Laboratory, Fractures,		
	Traction, Clinical Evaluation		
	and Examination.		
CLINICAL PRACTICE I		168 contact hours/ 3	20 notional
	Footwear and Foot	hours	
		Clinical practice	288hrs
	Ankle-Foot-Orthoses	Team consultation	16hrs
		Report writing	l 6hrs
		Assessment Plan -	
		final examination for	
L	l		and module.

		See Study Guide for details.	
Year 2		pee study duide for details.	
COMPUTER AND	Computer aided design	48 contact hours/ 120 notion	nal
GRAPHICAL	software applications and	hours	liai
COMMUNICATION			(h na
(CGRC101)			6hrs
(CGRCIVI)	of computer-aided patient measurement and device	Practical (computer) laborate 42hrs	ory
			(1)
	design and manufacture	Independent study	66hrs
	allowing computerised	Assessment	6hrs
		Assessment Plan – See St Guide for details.	udy
	sketching and three-	Guide for details.	
	dimensional visualisation,		
	First and third angle		
	projection, Auxiliary views		
	and sections, Use of		
	drawing standards, Simple		
	assembly drawings;		
	Application of machining		
	tolerances;		
	Applications in orthopaedic		
	technology.		
		10	
ELECTRONICS		48 contact hours/ 120 notion	nai
(ETRNI0I)	Inductance and capacitance,		271
	,,	Lectures	36hrs
	···· ··· ··· ··· ··· ··· ··· ··· ··· ·	Tutorials	l 2hrs
	Feedback, Sampled data,	Independent study	
	Interference rejection	66hrs	Chara
	techniques,	Assessment	6hrs
	Measurements, Myo-	Assessment Plan – See Stu Guide for details	uay
	electrodes, Safety.	Guide for details.	
	SECTION A: NECK -	120 contact hours/ 200 notion	anal
(ANMY201)	Surface Anatomy,	hours	Jilal
	superficial neck muscles,	Theory	20hrs
	triangles of the neck,	Practical	2011 s 60hrs
			20hrs
	neck, root of the neck.	Assessment Plan – There	
	cervical viscera, thyroid	final examination for this module.	
		See Study Guide for details.	
		see study Guide for details.	
	facial planes, pharynx,		
	larynx.		

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	SECTION B: HEAD -		
	Osteology, the Face -		
	muscles, neurovascular		
	structures, lymphatic		
	drainage, the Scalp, cranial		
	fossae and foramina (self-		
	study), the Orbit, parotid		
	and Temporal regions,		
	temporomandibular joint,		
	oral region (self-study),		
	salivary glands, nose and		
	paranasal sinuses, ear (self-		
	study).		
	SECTION C:		
	NEUROANATOMY –		
	Embryology, cerebral		
	topography, brainstem and		
	spinal cord, cerebellum,		
	thalamus, epithalamus and		
	hypothalamus, reticular		
	formation, visual,		
	olfactory and limbic		
	systems, cranial nerves,		
	blood supply of the brain.		
Community Healthcare	Reference to the study	48 contact hours/120 notion	onal
-	guide for a detailed	hours	
	background of this area of	Lectures 28	hrs
	research is required.		0hrs
		•	hrs
			14hrs
		• •	hrs
		Assessment Plan — The	re is no
		final examination for this n	
		See Study Guide for details.	
PHYSIOLOGY FOR	Anatomy and physiology	96 contact hours/ 160 not	
	are defined, the	hours	
	relationships between	Lectures	l 6hrs
	anatomy and physiology are		32hrs
	explained, cells and tissues,	Tutorials	l 6hrs
	integumentary system,	Case studies	l 6hrs
	• • •	Independent study	
	system, nervous system,		
	special senses, endocrine	Assessment Plan – Ther	re is no
		final examination for this n	
	system, cal diovasculai		nodule.

	system, immunity and the	See Study Guide for details.	
	lymphatic system		
	respiratory system,		
	digestive system, urinary		
	system, reproductive		
	system.		
BIOMECHANICS II	Biomechanics of the upper	48 contact hours/ 120 notional	
(BIMC201)	limb; Joint Force Analysis;	hours	
(BINC201)	Human Movement Analysis;		
		Practical's 18hrs	
	Lower Limb Orthotics	Tutorials 12hrs	
	Lower Lind Orthotics	Case studies 12hrs	
		· · · · ·	
		Assessment 6hrs	
		Assessment Plan – There is no	
		final examination for this module.	
		See Study Guide for details.	
PRINCIPLES OF	Ankle Foot Orthotics and	I I 2 contact hours/ 280 notional	
ORTHOTICS AND	Knee Orthotics; Knee	hours	
PROSTHETICS II	Ankle Foot Orthotics and	Lectures 56hrs	
(POPR20I)	Upper Limb Orthotics;	Practical's 42hrs	
	Ankle Disarticulation and	Tutorials 28hrs	
	partial foot prosthesis;	Case studies	
	Knee Disarticulation	28hrs	
	Prosthetics;	Independent study I I 2hrs	
	Transfemoral Prosthetics;	Assessment I4hrs	
	Upper Limb Prosthetics	Assessment Plan - There is no	
		final examination for this module.	
		See Study Guide for details.	
CLINICAL PRACTICE II		168 contact hours/ 280 notional	
(CLCP20I)	Knee Orthotic; Knee Ankle		
		Clinical practice 256hrs	
	<i>,</i>	Team Consultations 16hrs	
		Report writing I 6hrs	
	foot prosthesis;	Assessment Plan - There is no	
	Transfemoral Prosthetics;	final examination for this module.	
	Upper Limb Prosthetics	See Study Guide for details.	
ETHICS AND MEDICAL LAW (EMDL101)	Professional ethics, International ethics	32contact hours/ 80 notional hours	

			201
	principles, HPCSA and	Lectures	28hrs
	national requirements,	Case studies	4hrs
	Scope of practice,	Assignments	8hrs
	Multidisciplinary and	Independent study	36hrs
	interdisciplinary	Assessment	4hrs
	interactions, Legal aspects	Assessment Plan – S	See Study
	of medical care,	Guide for details.	_
	Applications in authentic		
N	settings.		
Year 3		40	
Community Healthcare		48 contact hours/120 r	notional
and research-	guide for a detailed	hours	101
Intermediate(CHRN101)		Lectures	48hrs
	research is required.	Group work	20hrs
		Independent study	44hrs
		Presentation	8hrs
		Assessment Plan - T	
		final examination for th	
		See Study Guide for details.	
CLINICAL STUDIES I	Inflammation, repair and	64 contact hours/ 160	notional
(CLCSI0I)	healing, Inflammatory	hours	
	diseases, degenerative	Lectures	64hrs
	diseases, post traumatic	Student presentations	incl. cases
	conditions, metabolic	studies	l 6hrs
	disorders, circulatory	Self-learning	80hrs
	disorders; Amputations;	Assessment Plan -T	
	Post-traumatic	final examination for th	
		e See Study Guide for details.	
	necrosis; Paralysis resulting		
	from nerve lesions;		
	Diseases of the pelvis and		
	hip; Diseases of the knee;		
	Diseases of the foot;		
	Diseases of the shoulder,		
	elbow and hand; Limb		
	deformities; Skin disorders		
	and wound repair		
PSYCHOLOGY	The reflective journal;	48 contact hours/ 120	notional
(PYCLI0I)	Understanding a helping	hours	
	relationship;		Bhrs
	Understanding human	0	6hrs
	development throughout	. ,	2hrs
	the life cycle; Basic	Assessment 4	nrs
	principles of social	Assessment Plan —	There is no

	constructionism and	final examination for	
	9	See Study Guide for	details.
	to a helping relationship;		
	Understanding the effect of		
	primary and secondary		
	trauma; Understanding		
	the effect of loss on intra		
	and interpersonal level;		
	Understand personal		
	relationships with		
	substances; Personal		
	understanding of HIV/AIDS;		
	Patient psychology:		
	psychology of loss and		
	psychology of disability.		
BASIC	Basic pharmacology;	48 contact hours/ 12	20 notional
PHARMACOLOGY	Pharmacodynamics;	hours	
(BPHY101)	Pharmacokinetics;	Lectures	42hrs
	Central nervous system;	Tutorials	l 2hrs
	Autonomic and peripheral	Assignments	l 2hrs
	(somatic) nervous system;	Independent study	48hrs
	Non-steroidal anti-	Assessment	6hrs
	inflammatory drugs;		
	Vaccines;	Assessment Plan - There is no	
	Cardiovascular system;	final examination for	this module.
	Haemopoietic system;	See Study Guide for	details.
	Respiratory system;		
	Gastro-intestinal tract;		
	Endocrinology; Vitamins		
	and minerals; Anti-		
	neoplastic drugs and		
	immune suppressors;		
	Wound care;		
	Dermatology;		
	Poisoning and emergencies;		
	HIV/AIDS; Anti-		
	histamines		
BIOMECHANICS III	Tissue Mechanics; Spinal	48 contact hours/ 12	20 notional
(BIMC301)	Biomechanics; Upper Limb	hours	
	Biomechanics; Cranial	Lectures	48hrs
	Biomechanics; Control	Tutorials	4hrs
	Systems	Case studies	l 2hrs
		Independent study	48hrs
L		/	

		Account	Ohma
		Assessment	8hrs
		Assessment Plan	
		final examination for this module.	
		See Study Guide for details.	
PRINCIPLES OF	Knee Ankle Foot Orthotics	128 contact hours/ 3	20 notional
ORTHOTICS AND	(KAFO); Hip Knee Ankle	hours	
PROSTHETICS III	Foot Orthotics (HKAFO);	Lectures	64hrs
(POPR30I)	Hip Orthotics (HO);	Practical's	48hrs
	Spinal Orthotics;	Tutorials	32hrs
	Hernias and Trusses;	Case studies	32hrs
	Vascular Compression	Independent study	128hrs
	Therapy; Cranial Orthotics;	,	l 6hrs
	Hip Disarticulation	Assessment Plan -	—There is no
	Prosthetics; Upper Limb	final examination for	this module.
	Prosthetics; Breast	See Study Guide for	
	Prosthesis		
CLINICAL PRACTICE	Knee Ankle Foot Orthotics	s I44 contact hours/ 240 notional	
III (CLCP301)	(KAFO); Hip Knee Ankle	hours	
	Foot Orthotics (HKAFO);	Clinical practice	204hrs
	Hip Orthotics (HO);	Group work	24hrs
	Spinal Orthotics;	Report writing	12hrs
	Hernias and Trusses;	Assessment Plan	-
	Vascular Compression	final examination for	
	Therapy; Cranial Orthotics;	see study Guide for	detalls.
	Hip Disarticulation		
	Prosthetics; Upper Limb		
	Prosthetics; Breast		
	Prosthesis		
Year 4	1	1	
Community Healthcare	Reference to the study	48 contact hours/12	0 notional
and research-	guide for a detailed	hours	
Advanced(CHRA101)	background of this area of	Lectures	48hrs
	research is required.	Practicum	20hrs
		Independent study	48hrs
		Presentation	4hrs
		Assessment Plan -	—There is no
		final examination for	
		See Study Guide for details.	
CLINICAL STUDIES II	Nervous system disorders	96 contact hours/ 24	
(CLCS201)	and diseases (child and	hours	
(adult)(CNS and PNS)	Lectures	96hrs
		Student seminars, ca	
	including Polio, Cerebral	Ntudont cominare co	co ctudioc

	poloy, poroplagia and	24hrs
	palsy, paraplegia and	Self-study
		120hrs
	Parkinson's disease. Spinal	
	and thoracic deformities,	Assessment Plan - There is no
	scoliosis, kyphosis;	final examination for this module.
	Diseases of the spine;	See Study Guide for details.
	Circulatory disorders;	
	Metabolic disorders;	
	Tumors; Degenerative	
	diseases; Burns; Fractures	
CLINICAL PRACTICE	Prescription, fitting and	192 contact hours/ 320 notional
IVA (ORTHOTICS)	check-out activities within	hours
(CLPO401)	the clinic team; General	Clinical practice
	laboratory practice: use of	144hrs
	hand tools, machine tools	Special case discussions 32hrs
	and materials, component	Consultations and report writing
	production; Patient	l 6hrs
	examinations, assessment.,	Self-study
	design, fitting, prescription,	128hrs
	education & evaluation;	Assessment Plan — There is no
	Measuring and casting, cast	final examination for this module.
	rectification, fabrication,	See Study Guide for details.
	fitting, aligning & finishing	,
	devices; Case	
	history/record keeping;	
	Patient information, medical	
	history, and record keeping.	
CLINICAL PRACTICE	Assessment, design,	192 contact hours/ 320 notional
IVB (PROSTHETICS)	prescription, fitting,	hours
(CLPP401)	evaluation, education and	Clinical practice
	check-out activities within	144hrs
	the clinic team;	Special case discussions 32hrs
	General laboratory	Consultations and report writing
	practice: use of hand tools,	I 6hrs
		Self-study
		128hrs
	materials, component production; Patient	Assessment Plan — There is no
	· · ·	final examination for this module.
		See Study Guide for details.
	prescription; Measuring and casting, cast	See Study Guide IOI details.
	rectification, fabrication,	
	fitting, aligning and finishing of devices; Case	
	history/record keeping for	

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	patient information, medical		
	history, current prosthesis,		
	prosthetic delivery.		
CLINIC,	Materials acquisition,	64 contact hours/ 160 notional	
LABORATORY AND	handling and stock control;	hours	
BUSINESS	Workforce management;	Self-study	64hrs
MANAGEMENT	Production cost	Group work	24hrs
(CLBMI0I)	calculations; Budgeting,	Lectures	64hrs
	invoicing, receipting and	Assessment	8hrs
	accounting; Clinic	Assessment Plan	- There is no
	management, appointment	final examination for	this module.
	systems, record keeping;	See Study Guide for	details.
	Property management, care		
	and maintenance;		
	Environmental/ecological		
	considerations;		
	Entrepreneurship Theory;		
	Business Plan development;		
	Marketing; Operations		
	Management; Human		
	Resources;		
	Presentation Skills		
ADVANCED CLINICAL	Clinical practice in a facility	32 contact hours/ 80) notional
PRACTICE (ACLP401)	of the student's choice	hours	
	outside the designated	Independent	64hrs
	centre used for training;	Reflective Integrated	l assignment
	This could include private		l 6hrs
	practices/training centre	Assessment Plan	—There is no
	nationally or internationally,	final examination for	this module.
	as arranged by the student	See Study Guide for	details.
	in consultation with the	Includes a report of	completed
	clinical coordinator/HOD.	hours spent at a suit	able facility, as
		supplied by the Dep & P.	artment of O

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