

HANDBOOK FOR 2021

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 subject 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

(2017 - 2019)

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:

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

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I. DEPARTMENTAL & FACULTY CONTACT DETAILS

All departmental enquiries to:

Secretary : Ms Nosipho Thabethe

Tel No : (031) 373 6723

Email : nosiphot@dut.ac.za/oandp@dut.ac.za
Location of Department : Wentworth Hospital, No I Boston Road,

Wentworth

All Faculty enquiries to:

Faculty officer : Ms Fortunate Thembelihle Mayisela

Tel No : (031) 373 2701

Email : thembim@dut.ac.za

Location : Health Faculty Office, Gate 8, Steve Biko Road,

Mansfield Site Area, Ritson Campus

Executive Dean : Prof Ashley Hilton Ross

Executive Dean's Secretary : Mrs Bilkish Khan
Tel No : (031) 373 2704
Fax No : 0866740237

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: Mr M Calitz: NHD: Med Orth & Prosth (TUT)

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

Secretary: Ms NNP Thabethe: Master of Management Sciences

specialising 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)	ВНМОР3	91786	First offered July 2013

3.3 DEPARTMENTAL INFORMATION

The establishment of the Department of Medical Orthotics and Prosthetics was approved by the Senate of the Durban University of Technology (DUT) in 2012, in preparation for the introduction of the BHSc: Medical Orthotics and Prosthetics in 2013. Development of this qualification was requested by the Department of Health in KwaZulu Natal, and classes will be offered at both DUT campuses and at Wentworth Hospital.

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 G13(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 Service 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 at professional degree with a minimum of 480 SAQA credits and allows 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.

HEOS Assessment SAOA Pre-Requisite

4.1.1 Purpose

Code

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.

4.1.2 Programme Structure

Code	Subject/Module	F Level	type (CA/E)	SAQA	Subjects	Subjects
			Ye	ar I		
PSIC101	Physics	5	CA	12		
CSTN101	Cornerstone	5	CA	12		
MTMS101	Mathematics	5	CA	8		
MTSC101	Materials Science	5	CA	12		
BIMC101	Biomechanics I	6	CA	16		
ANMYI0I	Anatomy I	6	CA	20		
POPRI01	Principles of Orthotics and Prosthetics I	-	Ca	28		
CLCP101	Clinical Practice I	5	CA	24		
	•	•	Yea	ar 2	•	•
CGRC101	Computer and graphical communication	6	CA	12		
ETRN101	Electronics	6	CA	8	BIMC101&PSIC101	
ANMY201	Anatomy II	6	CA	12	ANMYI0I	

CHRIIOI Community Health 6 CA	CLIBILAL	10		104	Lia	
Intro	CHRII0I		6	CA	12	
PYSL102		Care and Research-				
BIMC201 Biomechanics 2 7 CA 12 BIMC101&PSIC101						
POPR201			6	CA	16	
CLCP201	BIMC201	Biomechanics 2	7	CA	12	BIMC101&PSIC101
CLCP201	POPR201	Principles of	6	CA	28	POPRIOI,BIMCIOI,
CLCP201 Clinical Practice I 6						CLCP101
EMDL101		Prosthetics II				
EMDL101						
EMDL101	CLCP201	Clinical Practice II	6	CA	28	
Law Year 3						&POPRI0I
CHRN101 Community	EMDL101	Ethics and Medical	7	CA	8	
CHRN101		Law				
Healthcare and Research- Intermediate				Yea	ar 3	
Research-	CHRN101		7	CA	12	CHRII0I
Intermediate						
CLCS101 Clinical Studies		Research-				
Record R		Intermediate				
PYCL101	CLCS101	Clinical Studies 1	6	CA	16	PYSLI0I,ANMYI0I
BPHY101 Basic Pharmacology 6						&201
BIMC301 Biomechanics III 8	PYCL101	Psychology	7	CA	12	
BIMC301 Biomechanics III 8	BPHY101	Basic Pharmacology	6	CA	12	PYSLI0I,ANMYI0I
	BIMC301	Biomechanics III	8	CA	12	BIMC101&201.POPR
Orthotics and Prosthetics III						
Orthotics and Prosthetics III CLCP301 Clinical Practice III 7 CA 24 POPR201,BIMC201, CLCP201 Year 4 CLCS201 Clinical Studies II 7 CA 24 CLCS101 CLPO401 Clinical Practice IVA 8 CA 32 CLCP301,POPR301 (Orthotics) CLPP401 Clinical Practice IVB 8 CA 32 CLCP301,POPR301 (Prosthetics) CLBM101 Clinic, Laboratory 8 CA 16 CLCBM101 Community 8 CA 16 CLCBM101 Community 8 CA 17 CLCBM101 Community 8 CA 17 CLCBM101 COMMUNITY 8 CA 18 CA 19 CLCBM101,CHRN101 CLCBM101 CLC	POPR301	Principles of	7	CA	32	POPR101&201,BIMC
Prosthetics II						
CLCP201 Year 4		Prosthetics III				
CLCP201 Year 4	CLCP301	Clinical Practice III	7	CA	24	POPR201,BIMC201,
CLCS201 Clinical Studies II 7 CA 24 CLCS101 CLPO401 Clinical Practice IVA 8 CA 32 CLCP301,POPR301 (Orthotics) CLPP401 Clinical Practice IVB 8 CA 32 CLCP301,POPR301 (Prosthetics) CLBM101 Clinic, Laboratory 8 and Business Management CHRA101 Community Healthcare and research-Advanced						
CLPO401 Clinical Practice IVA 8 CA 32 CLCP301,POPR301 (Orthotics) CLPP401 Clinical Practice IVB 8 CA 32 CLCP301,POPR301 (Prosthetics) CLBM101 Clinic, Laboratory 8 CA 16 and Business Management CHRA101 Community Healthcare and research-Advanced				Yea	ar 4	
CLPP401 Clinical Practice IVB 8 CA 32 CLCP301,POPR301	CLCS201	Clinical Studies II	7	CA	24	CLCS101
CLPP401 Clinical Practice IVB 8 CA 32 CLCP301,POPR301	CLPO401	Clinical Practice IVA	8	CA	32	CLCP301.POPR301
CLPP401 Clinical Practice IVB 8 CA 32 CLCP301,POPR301 (Prosthetics) CLBM101 Clinic, Laboratory 8 CA 16 and Business Management CHRA101 Community Healthcare and research-Advanced					-	
(Prosthetics) CLBM101 Clinic, Laboratory 8	CLPP401		8	CA	32	CLCP301.POPR301
CLBM101 Clinic, Laboratory 8 CA 16 and Business Management CHRA101 Community Healthcare and research-Advanced					-	
and Business Management CHRA101 Community B CA I2 CHRII01,CHRNI01 Healthcare and research-Advanced	CLBMI0I		8	CA	16	
Management CHRA101 Community Healthcare and research-Advanced Management CA 12 CHRII01,CHRNI01	022		ľ		. •	
CHRA101 Community 8 CA 12 CHRI101,CHRN101 Healthcare and research-Advanced						
Healthcare and research-Advanced	CHRAIOI	Community	8	CA	12	CHRIIOLCHRNIOI
research-Advanced			-	• • • • • • • • • • • • • • • • • • •	· -	
	ACL P401		8	CA	8	CLCP30LPOPR301
practice				'		

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 Certificate (NSC) with endorsement for degree entry with the following subject.		A Senior Certificate with exemption with the followir the appropriate ratings.		
Compulsory Subjects	NSC Rating Code	Compulsory Subjects	HG	SG
English (home)	3	English	E	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).
- o 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. (Abbroved: 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.

- 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 G1 (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.

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

Module name & code	Learning areas/ content	Assessment Plan
Year I	-	
	Terminology and units,	48 contact hours/ 120 notional hours
PHYSICS (PSIC101)	Vector and scalar	Lectures 48hrs
,	quantities, Linear/angular	Tutorials 18hrs
	motion and motion of a	Independent study 48hrs
	solid body, Resolution of	Assessment 6hrs
	forces and movements in two dimensions, Equations	Assessment Plan —There is no final examination for this module. See Study
	of equilibrium, Free body	Guide for details.
	diagrams, Calculations of	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	
Commente of (CCTNIO)	Law.	40
Cornerstone(CSTN101)	,	48 contact hours/120 notional hours
MATHEMATICS	Elementary mathematics:	32 contact hours/ 80 notional hours
(MTMSI0I)	simple algebraic	Lectures 32hrs
	manipulation, indices,	Tutorials 8hrs
	logarithms, solution of	Independent study 36hrs
	equations, trigonometric	Assessment 4hrs
	functions, standard	Assessment Plan —See Study Guide
	trigonometric identities,	for details.
	solution of simple	
	trigonometric equations;	

	<u></u>	T	
	Functions: polynomial,		
	rational, exponential,		
	logarithmic;		
	Differentiation: simple		
	techniques, use in		
	optimisation and curve		
	sketching; Integration:		
	simple techniques,		
	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.	48 contact hours/ 120	matianal la
	Steel and its alloys, Non-		notional nours 48hrs
(MTSCI0I)	ferrous metals and their	Lectures	
	alloys; Plastics: thermo	Assignments	15hrs
	forming, thermosetting;	Independent study	48hrs
	Composites,	Assessment	14hrs
	polyurethanes/E.V.A.,	Assessment Plan —	
	Silicones, Wood, Leather,	examination for this m	odule. See Study
	Plaster of Paris, Adhesives.	Guide for details.	
BIOMECHANICS I	The anatomical planes and	64 contact hours/ 160	
(BIMC101) -	reference points of the	Lectures	32hrs
	body; Ranges of	Practicals	24hrs
	movement (lower/upper	Tutorials	16hrs
	limbs and spine), normal	Case studies	16hrs
	gait (introduction to	Independent study	64hrs
	kinematics, kinematics and	Assessment	8hrs
	EMG studies), introduction		
	to amputee and	examination for this m	odule. See Study
	pathological gait, Kinematic	Guide for details.	
	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		
1	niomechanics in relation to		
	biomechanics in relation to		
	joint functions; The interaction of anatomical		

	joints and prosthetic/orthotic joints; 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 and lignment biomechanics and their application; Foot biomechanics —analysis of joint forces (normal, pathological, effects of footwear).	
ANATOMY I	Module content	120 contact hours/ 200notional hours
	riodule content	11 20 Contact nours/ 200nouonai nours
(ANMYIOI)	Introduction and Definition	
_	Introduction and Definition of anatomy; Anatomical	Theory 20hrs Practicals 60hrs
_	Introduction and Definition of anatomy; Anatomical position, Anatomical	Theory 20hrs Practicals 60hrs Self-study 120hrs
_	Introduction and Definition of anatomy; Anatomical position, Anatomical terminology and terms of	Theory 20hrs Practicals 60hrs Self-study 120hrs Assessment Plan —There is no final
_	Introduction and Definition of anatomy; Anatomical position, Anatomical terminology and terms of reference, Anatomical	Theory 20hrs Practicals 60hrs Self-study 120hrs Assessment Plan —There is no final examination for this module. See Study
_	Introduction and Definition of anatomy; Anatomical position, Anatomical terminology and terms of reference, Anatomical planes and movements;	Theory 20hrs Practicals 60hrs Self-study 120hrs Assessment Plan —There is no final
_	Introduction and Definition of anatomy; Anatomical position, Anatomical terminology and terms of reference, Anatomical planes and movements; Integumentary system;	Theory 20hrs Practicals 60hrs Self-study 120hrs Assessment Plan —There is no final examination for this module. See Study
_	Introduction and Definition of anatomy; Anatomical position, Anatomical terminology and terms of reference, Anatomical planes and movements; Integumentary system; Introduction to Systems:	Theory 20hrs Practicals 60hrs Self-study 120hrs Assessment Plan —There is no final examination for this module. See Study
_	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	Theory 20hrs Practicals 60hrs Self-study 120hrs Assessment Plan —There is no final examination for this module. See Study
_	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	Theory 20hrs Practicals 60hrs Self-study 120hrs Assessment Plan —There is no final examination for this module. See Study
_	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	Theory 20hrs Practicals 60hrs Self-study 120hrs Assessment Plan —There is no final examination for this module. See Study
_	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;	Theory 20hrs Practicals 60hrs Self-study 120hrs Assessment Plan —There is no final examination for this module. See Study Guide for details.
_	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	Theory 20hrs Practicals 60hrs Self-study 120hrs Assessment Plan —There is no final examination for this module. See Study Guide for details.
(ANMYIOI)	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	Theory 20hrs Practicals 60hrs Self-study 120hrs Assessment Plan —There is no final examination for this module. See Study Guide for details.
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	Theory 20hrs Practicals 60hrs Self-study 120hrs Assessment Plan —There is no final examination for this module. See Study Guide for details. I 12 contact hours/ 280 notional hours Lectures 56hrs
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	Theory 20hrs Practicals 60hrs Self-study 120hrs Assessment Plan —There is no final examination for this module. See Study Guide for details. I 12 contact hours/ 280 notional hours Lectures 56hrs Practicals 42hrs
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	Theory 20hrs Practicals 60hrs Self-study 120hrs Assessment Plan —There is no final examination for this module. See Study Guide for details. I 12 contact hours/ 280 notional hours Lectures 56hrs Practicals 42hrs Tutorials 28hrs
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 fitting, Management of lower extremity, CAD	Theory 20hrs Practicals 60hrs Self-study 120hrs Assessment Plan —There is no final examination for this module. See Study Guide for details. I 12 contact hours/ 280 notional hours Lectures 56hrs Practicals 42hrs Tutorials 28hrs Case studies 28hrs
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 lower extremity, CAD CAM Technology, Plaster	Theory 20hrs Practicals 60hrs Self-study 120hrs Assessment Plan —There is no final examination for this module. See Study Guide for details. I 12 contact hours/ 280 notional hours Lectures 56hrs Practicals 42hrs Tutorials 28hrs Case studies 28hrs Independent study 112hrs
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 lower extremity, CAD CAM Technology, Plaster and Casting Techniques,	Theory 20hrs Practicals 60hrs Self-study 120hrs Assessment Plan —There is no final examination for this module. See Study Guide for details. I 12 contact hours/ 280 notional hours Lectures 56hrs Practicals 42hrs Tutorials 28hrs Case studies 28hrs Independent study 112hrs Assessment 14hrs
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 lower extremity, CAD CAM Technology, Plaster	Theory 20hrs Practicals 60hrs Self-study 120hrs Assessment Plan —There is no final examination for this module. See Study Guide for details. I 12 contact hours/ 280 notional hours Lectures 56hrs Practicals 42hrs Tutorials 28hrs Case studies 28hrs Independent study 112hrs

	manufacturing devices;	Guide for details.
	Footwear and Foot	
	Orthotics: The	
	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	Transtibial Prosthetics;	168 contact hours/ 320 notional hours
(CLCP201)	Footwear and Foot	Clinical practice 288hrs
	Orthotics; Foot Orthotics;	Team consultation 16hrs
	Ankle-Foot-Orthoses	Report writing 16hrs
		Assessment Plan —There is no final
		examination for this module. See Study
		Guide for details.
Year 2		
COMPUTER AND	Computer aided design	48 contact hours/ 120 notional hours
GRAPHICAL	software applications and	Lectures 6hrs
COMMUNICATION	Multimedia; Techniques	Practical (computer) laboratory 42hrs
(CGRC101)	1	Independent study 66hrs
-	measurement and device	Assessment 6hrs
	design and manufacture	Assessment Plan – See Study Guide
	allowing computerised	for details.
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	solution to a task; Isometric sketching and three-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.	
ELECTRONICS (ETRN101)	Inductance and capacitance, AC circuits, Transformers, Power supplies, Amplifiers, Feedback, Sampled data, Interference rejection techniques, Measurements, Myoelectrodes, Safety.	Tutorials 12hrs Independent study 66hrs Assessment 6hrs Assessment Plan – See Study Guide for details.
ANATOMY II (ANMY20I)	SECTION A: NECK – Surface Anatomy, superficial neck muscles, triangles of the neck, deep structures of the neck, root of the neck, cervical viscera, thyroid gland, parathyroid glands, facial planes, pharynx, larynx.	I 20 contact hours/ 200 notional hours Theory 20hrs Practical 60hrs Self-study I 20hrs Assessment Plan – There is no final examination for this module. See Study Guide for details.
	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:	

Community Healthcare And Research- Introduction(CHRII0I)	guide for a detailed background of this area of research is required.	48 contact hours/120 notional hours Lectures 28hrs Group work 20hrs Practicum 20hrs Independent study 44hrs Presentation 8hrs Assessment Plan —There is no fina
		examination for this module. See Study
		Guide for details.
PHYSIOLOGY FOR MOP (PYSL102)	are defined, the relationships between anatomy and physiology are explained, cells and tissues, integumentary system, muscular system, skeletal system, nervous system,	

BIOMECHANICS II (BIMC201)		48 contact hours/ 120 notional hours Lectures 24hrs Practicals 18hrs Tutorials 12hrs Case studies 12hrs Independent study 48hrs Assessment 6hrs Assessment Plan – There is no final examination for this module. See Study Guide for details.
PRINCIPLES OF ORTHOTICS AND PROSTHETICS II (POPR201)	Ankle Foot Orthotics and Upper Limb Orthotics; Ankle Disarticulation and partial foot prosthesis; Knee Disarticulation Prosthetics;	I 12 contact hours/ 280 notional hours Lectures 56hrs Practicals 42hrs Tutorials 28hrs Case studies 28hrs Independent study I 12hrs Assessment I4hrs Assessment Plan - There is no final examination for this module. See Study Guide for details.
CLINICAL PRACTICE II (CLCP201)	Knee Orthotic; Knee Ankle Foot Orthotics; Upper	168 contact hours/ 280 notional hours Clinical practice 256hrs Team Consultations 16hrs Report writing 16hrs Assessment Plan - There is no final examination for this module. See Study Guide for details.
	International ethics principles, HPCSA and national requirements, Scope of practice, Multidisciplinary and interdisciplinary	32contact hours/ 80 notional hours Lectures 28hrs Case studies 4hrs Assignments 8hrs Independent study 36hrs Assessment 4hrs Assessment Plan – See Study Guide for details.
	Reference to the study guide for a detailed	48 contact hours/120 notional hours Lectures 48hrs

Intermediate(CHRN101)	background of this area of	Group work	20hrs
	research is required.	Independent study	44hrs
		Presentation	8hrs
		Assessment Plan - 7	here is no final
		examination for this m	
		Guide for details.	
CLINICAL STUDIES I	Inflammation, repair and	64 contact hours/ 160	notional hours
(CLCSI0I)	healing, Inflammatory	Lectures	64hrs
(6263101)	diseases, degenerative	Student presentations	••
	diseases, post traumatic	studies	16hrs
	conditions, metabolic	Self-learning	80hrs
	disorders, circulatory	Assessment Plan -T	
	disorders; Amputations;	examination for this m	
	Post-traumatic osteoporosis;	Guide for details.	lodule. See Study
	Aseptic bone necrosis;	Guide for details.	
	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	
(PYCLI0I)	Understanding a helping	Lectures	48hrs
	relationship;	Assignments	16hrs
	Understanding human	Independent study	52hrs
	development throughout	Assessment	4hrs
	the life cycle; Basic	Assessment Plan —	
	principles of social	examination for this m	odule. See Study
	constructionism and	Guide for details.	
	externalising conversations		
	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/ 120	notional hours
PHARMACOLOGY	Pharmacodynamics;	Lectures	42hrs
(BPHYI0I)	Pharmacokinetics;	Tutorials	12hrs
ľ ,	Central nervous system;	Assignments	12hrs
	Autonomic and peripheral	Independent study	48hrs
	, aconomic and peripheral	macpendent study	10.113

	Non-steroidal anti- inflammatory drugs; Vaccines; Cardiovascular system; Haemopoietic system; 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	Assessment Plan - There is no final examination for this module. See Study Guide for details.
BIOMECHANICS III (BIMC301)	Tissue Mechanics; Spinal Biomechanics; Upper Limb Biomechanics; Cranial Biomechanics; Control Systems	48 contact hours/ 120 notional hours Lectures 48hrs Tutorials 4hrs Case studies 12hrs Independent study 48hrs Assessment 8hrs Assessment Plan - There is no final examination for this module. See Study Guide for details.
PRINCIPLES OF ORTHOTICS AND PROSTHETICS III (POPR301)	(KAFO); Hip Knee Ankle Foot Orthotics (HKAFO); Hip Orthotics (HO); Spinal Orthotics; Hernias and Trusses; Vascular Compression	I 28 contact hours/ 320 notional hours Lectures 64hrs Practicals 48hrs Tutorials 32hrs Case studies 32hrs Independent study I 28hrs Assessment I 6hrs Assessment Plan —There is no final examination for this module. See Study Guide for details.
CLINICAL PRACTICE III (CLCP301)	Knee Ankle Foot Orthotics (KAFO); Hip Knee Ankle Foot Orthotics (HKAFO); Hip Orthotics (HO); Spinal Orthotics; Hernias and Trusses; Vascular Compression Therapy; Cranial Orthotics; Hip Disarticulation	Clinical practice 204hrs Group work 24hrs Report writing 12hrs Assessment Plan —There is no final examination for this module. See Study Guide for details.

	Prosthetics; Upper Limb Prosthetics; Breast Prosthesis	
Year 4	-	
Community Healthcare and research-Advanced(CHRA101)	Reference to the study guide for a detailed background of this area of research is required.	48 contact hours/120 notional hours Lectures 48hrs Practicum 20hrs Independent study 48hrs Presentation 4hrs Assessment Plan —There is no final
CLINICAL STUDIES II	Name and a state of the state o	examination for this module. See Study Guide for details.
CLINICAL STUDIES II (CLCS201)	palsy, paraplegia and quadriplegia, ataxia, Parkinson's disease. Spinal and thoracic deformities, scoliosis, kyphosis; Diseases of the spine; Circulatory disorders; Metabolic disorders; Tumors; Degenerative diseases; Burns; Fractures	96 contact hours/ 240 notional hours Lectures 96hrs Student seminars, case studies 24hrs Self-study I 20hrs Assessment Plan - There is no final examination for this module. See Study Guide for details.
CLINICAL PRACTICE IVA (ORTHOTICS) (CLPO401)	Prescription, fitting and check-out activities within the clinic team; General laboratory practice: use of hand tools, machine tools and materials, component production; Patient examinations, assessment., design, fitting, prescription, education & evaluation; Measuring and casting, cast rectification, fabrication, fitting, aligning & finishing devices; Case history/record keeping; Patient information, medical history, and record keeping.	192 contact hours/ 320 notional hours Clinical practice 144hrs Special case discussions 32hrs Consultations and report writing 16hrs Self-study 128hrs Assessment Plan —There is no final examination for this module. See Study Guide for details.
CLINICAL PRACTICE IVB (PROSTHETICS) (CLPP401)	Assessment, design, prescription, fitting, evaluation, education and check-out activities within the clinic team; General laboratory	192 contact hours/ 320 notional hours Clinical practice I44hrs Special case discussions 32hrs Consultations and report writing I6hrs Self-study I28hrs Assessment Plan —There is no final

machine tools and materials, component production; Patient examinations and prescription; Measuring and casting, cast rectification, fabrication, fitting, aligning and finishing of devices; Case history/record keeping for patient information, medical history, current prosthesis, prosthetic delivery. CLINIC, LABORATORY AND BUSINESS Workforce management; MANAGEMENT Guide for details. Guide for details. Guide for details. 64 contaction. 64 contact hours/ 160 notional hours 65 elf-study 66 hrs Group work 66 contact hours/ 160 notional hours 67 coup work 68 corup work 69 coup work 60 coup work 6		Landing of the stands	La contraction Constitution and the Constitution
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