

2016 HANDBOOK
MEDICAL ORTHOTICS & PROSTHETICS



ı

# HANDBOOK FOR 2016

# FACULTY OF HEALTH SCIENCES

**DEPARTMENT** of

# **MEDICAL ORTHOTICS AND PROSTHETICS**

BHSc. 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, GOALS & VALUES**

(November 2012 for 2013-2017)

#### **Vision**

Our vision is to be a leading Faculty in transformative and innovative education for health professionals, guided by National imperatives and a strong commitment to socially responsive education. We will strive for excellence in professional and teaching scholarship, as well as in the development of National and global linkages in education and in the research and development of health.

#### **Mission Statement**

With a values-driven student-centered ethos, the Faculty is committed to developing quality health professionals that are practice-oriented, receptive and responsive to the healthcare needs of the people of South Africa and of Africa as a whole. This will be achieved by providing the highest standards of learning, teaching, and research and community engagement, underpinned by a commitment to creating space for students and staff to succeed.

#### Goals

The Faculty aims to:

- I. Respond to the National human resource and industry needs within the health sector.
- 2. Ensure the offering of entrepreneurial and leadership skills as a core component of all programmes within the Faculty of Health Sciences.
- 3. Continue to develop community-based projects to foster social responsibility through collaborative projects amongst programmes.
- 4. Enhance established quality management frameworks to support teaching and learning.
- 5. Develop applied research responsive to community and industry needs.
- 6. Develop mechanisms for the dissemination and application of research outcomes to inform teaching and learning, assessment, community engagement and further research.
- 7. Improve research participation and output through increased post-graduate student enrolment, publications, and the establishment of research groups.
- 8. Enable the generation of third-stream income through research and innovation (patents / artifacts) in order to supplement existing sources of income for the next five years.
- 9. Attract and retain diverse quality staff, while promoting the advancement of individual potential.
- 10. Nationally position the DUT Faculty of Health Sciences.

#### **Values**

- The Faculty is guided by the following core values:
- o Transparency, openness, honesty, and shared governance.
- Professional and personal respect for others.
- o Educational relevance, equity and transformation (curriculum, access and success).
- o Loyalty, accountability, dignity and trust.

#### **DEPARTMENTAL MISSION & GOALS**

#### Vision:

A progressive Department in Southern Africa that advances education, research and service provision in the orthotics and prosthetics health sector through innovative programme delivery. As a newly implemented course, the Department of Orthotics and Prosthetics aims to fulfill the demands of this specialised profession by training its students to high standards, comparable to institutions of the same nature across the world.

#### Mission:

To provide high quality training to students who will ultimately serve the orthotics and prosthetics needs of Southern Africa.

To promote first-class teaching, learning, research, and community engagement in order to be a training service provider of choice for students, whilst maintaining the reputation of the DUT as a model of knowledge empowerment;

To produce a well-rounded and competent graduate who will be a productive citizen fully able to integrate into society, and who will function efficiently and effectively in a dynamic global environment.

# **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.
- o To adopt an ethos of excellence in Higher Education.

# **CONTENTS**

	·	age
I.	DEPARTMENTAL & FACULTY CONTACT DETAILS	. I
2.	STAFFING	2
3.1	DEPARTMENTAL INFORMATION & RULES  Qualifications offered by the department  Departmental Information	
	CTION A: UNDERGRADUATE QUALIFICATION BACHELOR OF HEALTH SCIENCES IN MEDICAL ORTHOTICS & PROSTHETICS (BHMOP3)	
4.2 4.3 4.3. 4.3. 4.3. 4.3. 4.3.	Programme information.  Programme structure.  Programme Rules.  1 Minimum Admission Requirements.  2 Selection Criteria.  3 Pass Requirements.  4 Re-registration Rules.  5 Exclusion Rules.  6 Interruption of Studies.  7 Registration with the Health Professions  Council of South Africa (HPCSA) and the	. 6 6 7 7 8
	Professional Board	9

### I. DEPARTMENTAL & FACULTY CONTACT DETAILS

All departmental enquiries to:

Secretary: Ms Nosipho Thabethe

Tel No : (031) 373 6723

Email: <u>oandp@dut.ac.za</u> / <u>nosiphot@dut.ac.za</u>

Location of Department: Wentworth Hospital / Room AB-0305,

Block B, ML Sultan Campus, DUT

All Faculty enquiries to:

 Faculty officer:
 Mr Vikesh Singh

 Tel No:
 (031) 373 2701

 Fax No:
 (031) 373 2407

 Email:
 vikeshs@dut.ac.za

Location: Health Faculty Office, Gate 8, Steve Biko

Road, Mansfield Site Area, Ritson Campus

Executive Dean: Prof T Puckree
Executive Dean's Secretary: Mrs Bilkish Khan
Tel No: (031) 373 2704
Fax No: (031) 373 2620
Email: bilkishk@dut.ac.za

Location: Executive Dean's Office, Gate 8, Steve

Biko Road, Mansfield Site Area, Ritson

Campus

# 2. **STAFFING** Name and Qualification

**Head of Department:** Mr D Askew: BTech: Med Orth & Prosth

(TUT)

**Lecturer:** Mr M Calitz : NHD: Med Orth &

Prosth (TUT)

Mr B Nothling: NHD:Med Orth & Prosth

(TUT)

Mr T Dawule : BSc Med Orth & Prosth

(TATCOT)

Secretary: Ms N Thabethe: BTech: Business Ad-

ministration

#### 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 behavior (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.

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 and ear plugs), when required.

# 3.3.6 Work Integrated Studies

Work integrated learning (WIL) will be undertaken for approximately six (6) months to fulfill the required hours in the 4th year of study (Clinical practice 4 A and B) at Wentworth Hospital. Satellite clinics located within the Kwa-Zulu Natal Department of Health facilities/hospitals may also be used. Should the need arise, then alternative suitable sites of WIL will be sourced within South Africa. Additional placement for Advanced Clinical

Practice will be by choice of the student at approved national or international centers.

#### 3.3.7 Service Modules

Students need to make themselves familiar 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

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 Health Professions Council of South Africa as well as the Professional Board for Occupational Therapy, Medical Orthotics and Prosthetics and Arts, by submission of Form 53 as well as the relevant fee.

As a Graduate: On successful completion of the qualification and required internship, 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. Further registration with the Board of Healthcare Funders of SA [BHF] is permitted after the graduate has received his/her HPCSA registration.

# 3.3.9 Student Appeals

Rule G1 (8) of the DUT General Handbook applies.

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

# 4.1 Programme Information

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. 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.

# 4.2 Programme Structure for the Bachelor of Health Sciences in Medical Orthotics & Prosthetics

ĺ	Subject/Module	Year of study	Assessment type (CA/E)	SAQA	Pre-Requisite Subjects	Co-requisite Subjects
	•		Year I			
PSIC101	Physics	1	CA	12		
CSTN101	Cornerstone	1	CA	12		
MTMS101	Mathematics	I	CA	8		
MTSC101	Materials Science	1	CA	12		
BIMC101	Biomechanics I	1	CA	16		
ANMYI0I	Anatomy I	1	CA	20		
POPRI0I	Principles of Orthotics and Prosthetics	1	Ca	28		
CLCP101	Clinical Practice	1	CA	24		
			Year 2			
CGRC101	Computer and graphical communication	2	CA	12		
ETRN101	Electronics	2	CA	8	BIMC101&PSIC101	
ANMY201	Anatomy 2	2	CA	12	ANMYI0I	
CHRII0I	Community Health Care and Research-Intro	2	CA	12		
PYSLI01	Physiology	2	CA	16		
BIMC201	Biomechanics 2	2	CA	12	BIMC101&PSIC101	
POPR201	Principles of Orthotics and Prosthetics 2	2	CA	28	POPRIOI,BIMCIOI, CLCPIOI	
CLCP201	Clinical Practice 2	2	CA	32	CLCP101, BIMC101 &POPR101	
EMDLI01	Ethics and Medical Law	2	CA	8		
	<b>I</b>		Year 3	3		•
CHRN101	Community Healthcare and Research-Intermediate	3	CA	12	CHRII0I	
CLCS101	Clinical Studies 1	3	CA	16	PYSL101,ANMY101 &201	
PYCLI01	Psychology	3	CA	8	· ·	
PHCY101	Pharmacology	3	CA	12	PYSLI01,ANMYI01 &201	
BIMC301	Biomechanics 3	3	CA	12	BIMC101&201,POPR101&20	
POPR301	Principles of Orthotics and Prosthetics 3	3	CA	32	POPR101&201,BIMC201,CL CP201	
CLCP301	Clinical Practice 3	3	CA	24	POPR201,BIMC201,CLCP201	
	•		Year 4	ļ .		•
CLCS201	Clinical Studies 2	4	CA	24	CLCS101	
CLPO401	Clinical Practice (Orthotics)	4	CA	32	CLCP301,POPR301	
CLPP401	Clinical Practice (Prosthetics)	4	CA	32	CLCP301,POPR301	
CLBM101	Clinical And Business Management	4	CA	16		
CHRA101	Community Healthcare and research-Advanced	4	CA	12	CHRII0I,CHRNI0I	
ACLP401	Advanced clinical practice	4	CA	8		

# 4.3 Programme Rules

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

# 4.3.1 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:

Subject	NSC Rating
English	3
Life Sciences	4
Physical Sciences	4
Mathematics	4
Two additional 20 credit subjects, only one of which may be an additional language.	4

#### Or

Senior Certificate with matriculation exemption with the following subjects at the stated ratings:

Compulsory Subjects	HG	SG
English	E	С
Biology	D	В
Physical Sciences	D	В
Mathematics	D	В

(Approved: Senate 29/08/2012)

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

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

#### Admission of International students

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

#### 4.3.2 Selection Process

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 will determine 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:
- 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 must be submitted prior to being invited to the interview process. (Available from DUT-Dept.of Med.O&P-form RBIOP.) ii) Applicants who meet the above criteria:
- c) Will be invited to manual dexterity testing and for an interview.
- d) 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)

### 4.3.3 Pass Requirements

#### 4.3.3.1 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 guide. There are no supplementary examinations for these modules. The course mark then constitutes 100% of the final mark.

(Approved: Senate 29/08/2012)

# 4.3.3.2 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.

# 4.3.4 Re-registration rules

Rule G16 of the General Handbook for students applies.

(Approved: Senate 29/08/2012)

#### 4.3.5 Exclusion Rules

In addition to Rule G17, the following programme rule applies:

A first-year student who fails three or more modules, each with less than 40%, is not permitted to re-register in the Department of Medical Orthotics and Prosthetics. De-registration from any subject is subject to the provisions of rule G6(2).

(Approved: Senate 29/08/2012)

# 4.3.6. 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)

# 4.3.7 Registration with the Health Professions Council of South Africa (HPCSA) and the Professional Board.

As a student, registration with the HPCSA is compulsory. This will be done via the MOP programme. (Approved: Senate 29/08/2012)

#### 4.3.8 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 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 as supplied or 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.
- Immunisation against Hepatitis 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.

### 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		
PHYSICS (PSIC101)	Terminology and units, Vector	72 contact hours/ 120 notional hours
	and scalar quantities,	Lectures 48hrs
	Linear/angular motion and	Tutorials 18hrs
	motion of a solid body,	Independent study 48hrs
	Resolution of forces and	Assessment 6hrs
	movements in two dimensions,	Assessment Plan —There is no final
	Equations of equilibrium, Free	examination for this module. See Study

	h - d. di C-ll-ti t	Cuida fan dasaila
	body 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 Law.	
Cornerstone(CSTN101)	Serviced by the institution	48 contact hours/120 notional hours
MATHEMATICS	Elementary mathematics: simple	48 contact hours/ 80 notional hours
(MTMSI0I)	algebraic manipulation, indices,	Lectures 32hrs
	logarithms, solution of	Tutorials 8hrs
	equations, trigonometric	Independent study 36hrs
	functions, standard	Assessment 4hrs
	trigonometric identities,	Assessment Plan —See Study Guide for
	solution of simple trigonometric	
	equations; 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,	
	formulae and calculators.	
	Steel and its alloys, Non-	72 contact hours/ 120 notional hours
(MTSCI0I)	ferrous metals and their alloys;	Lectures 48hrs
	Plastics: thermoforming,	Assignments I5hrs
	thermosetting;	Independent study 48hrs
	Composites,	Assessment I4hrs
	polyurethanes/E.V.A., Silicones,	Assessment Plan —There is no final
	Wood, Leather, Plaster of Paris,	examination for this module. See Study
	Adhesives.	Guide for details.
BIOMECHANICS I	The anatomical planes and	96 contact hours/ 160 notional hours
(BIMC101) -	reference points of the body;	Lectures 32hrs
,	Ranges of movement	Practicals 24hrs
	(lower/upper limbs and spine),	Tutorials 16hrs
	normal gait (introduction to	Case studies 16hrs
	kinematics, kinematics and EMG	Independent study 64hrs
	studies), introduction to	Assessment 8hrs
	amputee and pathological gait,	Assessment Plan —There is no final
	Kinematic analysis of limbs;	examination for this module. See Study
	Introduction to relevant	Guide for details.
	biological tissues and their	Guide for details.
	mechanical properties;	
	Prosthetic and orthotic	
	measurement techniques;	
	measurement techniques; Anatomical joint types, their	
	measurement techniques; Anatomical joint types, their functions and interactions;	
	measurement techniques; Anatomical joint types, their	

		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;	
1		Lower limb prosthetic	
		components and their	
		application; Foot	
		biomechanics —analysis of joint	
		forces (normal, pathological, effects of footwear).	
ANATOMY		Module content	120 contact hours/ 200notional hours
(ANMYI0I)	_	Introduction and Definition of	Theory 20hrs
(**************************************		anatomy; Anatomical	Practicals 60hrs
		position, Anatomical	Self study 120hrs
		terminology and terms of	Assessment Plan —There is no final
		reference, Anatomical planes	examination for this module. See Study
		and movements;	Guide for details.
		,	Guide for details.
		Integumentary system;	
		Introduction to Systems:	
		Skeletal; Muscular (muscle	
		tissue, architecture of muscle);	
		Articular; Cardiovascular and	
		Nervous. Back, Upper limbs	
	-	and Lower limbs	
PRINCIPLES		Transtibial Prosthetics:	168 contact hours/ 280 notional hours
ORTHOTICS		Transtibial Prosthetic Types,	Lectures 56hrs
PROSTHETICS	I	Post-operative fitting,	Practicals 42hrs
(POPRI0I)		Management of lower	Tutorials 28hrs
		extremity, CAD CAM	Case studies 28hrs
		Technology, Plaster and Casting	
		Techniques, Transtibial	Assessment I4hrs
		prosthetic componentry and	Assessment Plan —There is no final
1		manufacturing devices;	examination for this module. See Study
1		Footwear and Foot Orthotics:	Guide for details.
1		The Orthopaedic Shoe,	
		Footwear and Adaptations;	
		Foot Orthotics: Introduction to	
		foot orthotics, Innersoles,	
1		UCBL, Day Splints/ Night	
1		Splints, Extensions, Pads, bars	
1		and domes, Diabetics and	
1		Wound healing, Chronic and	
1		Acute conditions, Prefabricated,	
L			l .

		1
	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 II	Transtibial Prosthetics;	192 contact hours/ 320 notional hours
(CLCP201)	Footwear and Foot Orthotics;	Clinical practice 288hrs
	Foot Orthotics; Ankle-	Team consultation 16hrs
	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 software	72 contact hours/ 120 notional hours
GRAPHICAL	applications and Multimedia;	Lectures 6hrs
COMMUNICATION	Techniques of computer-aided	Practical (computer) laboratory 42hrs
(CCDCIAI)		
(CGRC101)	patient measurement and device	Independent study
(CGRC101)	design and manufacture allowing	. 66hrs
(CGRC101)	design and manufacture allowing computerised solution to a task;	Assessment 66hrs
(CGRCIUI)	design and manufacture allowing computerised solution to a task; Isometric sketching and three-	Assessment 66hrs
(CGRCIUI)	design and manufacture allowing computerised solution to a task; Isometric sketching and three- dimensional visualisation, First	66hrs Assessment 6hrs Assessment Plan – See Study Guide for
(CGRCIUI)	design and manufacture allowing computerised solution to a task; Isometric sketching and three- dimensional visualisation, First and third angle projection,	Assessment 66hrs
(CGRCIUI)	design and manufacture allowing computerised solution to a task; Isometric sketching and three-dimensional visualisation, First and third angle projection, Auxiliary views and sections,	66hrs Assessment 6hrs Assessment Plan – See Study Guide for
(CGRCIUI)	design and manufacture allowing computerised solution to a task; Isometric sketching and three-dimensional visualisation, First and third angle projection, Auxiliary views and sections, Use of drawing standards,	66hrs Assessment 6hrs Assessment Plan – See Study Guide for
(CGRCIUI)	design and manufacture allowing computerised 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;	66hrs Assessment 6hrs Assessment Plan – See Study Guide for
(CGRCIUI)	design and manufacture allowing computerised 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	66hrs Assessment 6hrs Assessment Plan – See Study Guide for
(CGRCIUI)	design and manufacture allowing computerised 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	66hrs Assessment 6hrs Assessment Plan – See Study Guide for
	design and manufacture allowing computerised 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.	Assessment 6hrs Assessment Plan – See Study Guide for details.
ELECTRONICS	design and manufacture allowing computerised 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.  Basic concepts, DC circuits,	Assessment 6hrs Assessment Plan – See Study Guide for details.  72 contact hours/ 120 notional hours
	design and manufacture allowing computerised 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.  Basic concepts, DC circuits, Inductance and capacitance, AC	Assessment 6hrs Assessment Plan – See Study Guide for details.  72 contact hours/ 120 notional hours Lectures 36hrs
ELECTRONICS	design and manufacture allowing computerised 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.  Basic concepts, DC circuits, Inductance and capacitance, AC circuits, Transformers, Power	Assessment 6hrs Assessment Plan – See Study Guide for details.  72 contact hours/ 120 notional hours Lectures 36hrs Tutorials 12hrs
ELECTRONICS	design and manufacture allowing computerised 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.  Basic concepts, DC circuits, Inductance and capacitance, AC circuits, Transformers, Power supplies, Amplifiers, Feedback,	Assessment 6hrs Assessment Plan – See Study Guide for details.  72 contact hours/ 120 notional hours Lectures 36hrs Tutorials 12hrs Independent study 66hrs
ELECTRONICS	design and manufacture allowing computerised 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.  Basic concepts, DC circuits, Inductance and capacitance, AC circuits, Transformers, Power supplies, Amplifiers, Feedback, Sampled data,	Assessment 6hrs Assessment Plan – See Study Guide for details.  72 contact hours/ 120 notional hours Lectures 36hrs Tutorials 12hrs Independent study 66hrs Assessment 6hrs
ELECTRONICS	design and manufacture allowing computerised 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.  Basic concepts, DC circuits, Inductance and capacitance, AC circuits, Transformers, Power supplies, Amplifiers, Feedback, Sampled data, Interference	Assessment  Assessment Plan – See Study Guide for details.  72 contact hours/ 120 notional hours Lectures 36hrs Tutorials 12hrs Independent study 66hrs Assessment 6hrs Assessment Plan – See Study Guide for
ELECTRONICS	design and manufacture allowing computerised 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.  Basic concepts, DC circuits, Inductance and capacitance, AC circuits, Transformers, Power supplies, Amplifiers, Feedback, Sampled data, Interference rejection techniques,	Assessment 6hrs  Assessment Plan – See Study Guide for details.  72 contact hours/ 120 notional hours Lectures 36hrs Tutorials 12hrs Independent study 66hrs Assessment 6hrs
ELECTRONICS	design and manufacture allowing computerised 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.  Basic concepts, DC circuits, Inductance and capacitance, AC circuits, Transformers, Power supplies, Amplifiers, Feedback, Sampled data, Interference rejection techniques, Measurements, Myoelectrodes,	Assessment  Assessment Plan – See Study Guide for details.  72 contact hours/ 120 notional hours Lectures 36hrs Tutorials 12hrs Independent study 66hrs Assessment 6hrs Assessment Plan – See Study Guide for
ELECTRONICS (ETRN101)	design and manufacture allowing computerised 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.  Basic concepts, DC circuits, Inductance and capacitance, AC circuits, Transformers, Power supplies, Amplifiers, Feedback, Sampled data, Interference rejection techniques, Measurements, Myoelectrodes, Safety.	Assessment 6hrs  Assessment Plan – See Study Guide for details.  72 contact hours/ 120 notional hours Lectures 36hrs Tutorials 12hrs Independent study 66hrs Assessment 6hrs Assessment Plan – See Study Guide for details.
ELECTRONICS (ETRN101)	design and manufacture allowing computerised 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.  Basic concepts, DC circuits, Inductance and capacitance, AC circuits, Transformers, Power supplies, Amplifiers, Feedback, Sampled data, Interference rejection techniques, Measurements, Myoelectrodes, Safety.	Assessment 6hrs  Assessment Plan – See Study Guide for details.  72 contact hours/ 120 notional hours Lectures 36hrs Tutorials 12hrs Independent study 66hrs Assessment 6hrs Assessment 6hrs Assessment Plan – See Study Guide for details.
ELECTRONICS (ETRN101)	design and manufacture allowing computerised 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.  Basic concepts, DC circuits, Inductance and capacitance, AC circuits, Transformers, Power supplies, Amplifiers, Feedback, Sampled data, Interference rejection techniques, Measurements, Myoelectrodes, Safety.  SECTION A: NECK – Surface Anatomy, superficial	Assessment 6hrs Assessment Plan – See Study Guide for details.  72 contact hours/ 120 notional hours Lectures 36hrs Tutorials 12hrs Independent study 66hrs Assessment 6hrs Assessment 6hrs Assessment Plan – See Study Guide for details.
ELECTRONICS (ETRN101)	design and manufacture allowing computerised 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.  Basic concepts, DC circuits, Inductance and capacitance, AC circuits, Transformers, Power supplies, Amplifiers, Feedback, Sampled data, Interference rejection techniques, Measurements, Myoelectrodes, Safety.  SECTION A: NECK – Surface Anatomy, superficial neck muscles, triangles of the	Assessment 6hrs  Assessment Plan – See Study Guide for details.  72 contact hours/ 120 notional hours Lectures 36hrs Tutorials 12hrs Independent study 66hrs Assessment 6hrs Assessment 6hrs Assessment Plan – See Study Guide for details.  120 contact hours/ 200 notional hours Theory 20hrs Practical 60hrs
ELECTRONICS (ETRN101)	design and manufacture allowing computerised 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.  Basic concepts, DC circuits, Inductance and capacitance, AC circuits, Transformers, Power supplies, Amplifiers, Feedback, Sampled data, Interference rejection techniques, Measurements, Myoelectrodes, Safety.  SECTION A: NECK — Surface Anatomy, superficial neck muscles, triangles of the neck, deep structures of the	Assessment 6hrs  Assessment Plan – See Study Guide for details.  72 contact hours/ 120 notional hours Lectures 36hrs Tutorials 12hrs Independent study 66hrs Assessment 6hrs Assessment Plan – See Study Guide for details.  120 contact hours/ 200 notional hours Theory 20hrs Practical 60hrs Self study 120hrs
ELECTRONICS (ETRN101)	design and manufacture allowing computerised 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.  Basic concepts, DC circuits, Inductance and capacitance, AC circuits, Transformers, Power supplies, Amplifiers, Feedback, Sampled data, Interference rejection techniques, Measurements, Myoelectrodes, Safety.  SECTION A: NECK – Surface Anatomy, superficial neck muscles, triangles of the	Assessment 6hrs  Assessment Plan – See Study Guide for details.  72 contact hours/ 120 notional hours Lectures 36hrs Tutorials 12hrs Independent study 66hrs Assessment 6hrs Assessment 6hrs Assessment Plan – See Study Guide for details.  120 contact hours/ 200 notional hours Theory 20hrs Practical 60hrs

		T
	parathyroid glands, facial planes, pharynx, larynx.	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: 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 guide for	48 contact hours/120 notional hours
	a detailed background of this	Lectures 4
Introduction(CHRII0I)	area of research is required.	Group work 20
		Practicum 20
		Independent study 10
		Presentation 4
		Assessment Plan —There is no final
		examination for this module. See Study
		Guide for details.
PHYSIOLOGY	Anatomy and physiology are	96 contact hours/ 160 notional hours
(PYSLI0I)	defined, the relationships	Lectures 16hrs
	between anatomy and	Practicals 32hrs
	physiology are explained, cells	Tutorials 16hrs
	and tissues, integumentary	Case studies
	system, muscular system,	16hrs
	skeletal system, nervous	Independent study
	system, special senses,	80hrs
	endocrine system,	Assessment Plan - There is no final
	cardiovascular system, immunity	
	and the lymphatic system	Guide for details.
	respiratory system, digestive	
	system, urinary system,	
	reproductive system.	

DIOMECHANICS "	Diamaghanias of the	72 contact house/ 120
		72 contact hours/ 120 notional hours
(BIMC201)	, ,	Lectures 24hrs
	Movement Analysis; Lower	Practicals 18hrs
	Limb Prosthetics; Lower	Tutorials 12hrs
	Limb Orthotics	Case studies 12hrs
		Independent study 48hrs
		Assessment 6hrs
		Assessment Plan - There is no final
		examination for this module. See Study
		Guide for details.
	Ankle Foot Orthotics and Knee	
	Orthotics; Knee Ankle Foot	
PROSTHETICS	Orthotics and Upper Limb	Practicals 42hrs
II(POPR201)	Orthotics; Ankle	Tutorials 28hrs
	Disarticulation and partial foot	Case studies 28hrs
	prosthesis; Knee	Independent study I 12hrs
	Disarticulation Prosthetics;	Assessment I4hrs
	Transfemoral Prosthetics;	Assessment Plan - There is no final
	Upper Limb Prosthetics	examination for this module. See Study
		Guide for details.
CLINICAL PRACTICE II		192 contact hours/ 320 notional hours
(CLCP201)	Orthotic; Knee Ankle Foot	Clinical practice 288hrs
	Orthotics; Upper Limb	Team Consultations 16hrs
	Orthotics; Ankle	Report writing 16hrs
	Disarticulation and partial foot	Assessment Plan - There is no final
	prosthesis; Transfemoral	examination for this module. See Study
	Prosthetics; Upper Limb	Guide for details.
	Prosthetics	
	Professional ethics, International	
LAW (EMDLI01)	ethics principles, HPCSA and	Lectures 28hrs
	national requirements, Scope of	Case studies 4hrs
	practice, Multidisciplinary and	
		Assignments 8hrs
	interdisciplinary interactions, Legal aspects of medical care,	Assignments 8hrs Independent study 36hrs
	interdisciplinary interactions, Legal aspects of medical care, Applications in authentic	
	interdisciplinary interactions, Legal aspects of medical care,	Independent study 36hrs
	interdisciplinary interactions, Legal aspects of medical care, Applications in authentic	Independent study 36hrs Assessment 4hrs
Year 3	interdisciplinary interactions, Legal aspects of medical care, Applications in authentic settings.	Independent study 36hrs Assessment 4hrs Assessment Plan – See Study Guide for details.
Community Healthcare	interdisciplinary interactions, Legal aspects of medical care, Applications in authentic settings.  Reference to the study guide for	Independent study 36hrs Assessment 4hrs Assessment Plan – See Study Guide for details.  48 contact hours/120 notional hours
Community Healthcare and research-	interdisciplinary interactions, Legal aspects of medical care, Applications in authentic settings.  Reference to the study guide for a detailed background of this	Independent study 36hrs Assessment 4hrs Assessment Plan – See Study Guide for details.  48 contact hours/120 notional hours Lectures 4
Community Healthcare and research-	interdisciplinary interactions, Legal aspects of medical care, Applications in authentic settings.  Reference to the study guide for	Independent study 36hrs Assessment 4hrs Assessment Plan – See Study Guide for details.  48 contact hours/120 notional hours Lectures 4 Group work 20
Community Healthcare and research-	interdisciplinary interactions, Legal aspects of medical care, Applications in authentic settings.  Reference to the study guide for a detailed background of this	Independent study 36hrs Assessment 4hrs Assessment Plan – See Study Guide for details.  48 contact hours/120 notional hours Lectures 4 Group work 20 Practicum 20
Community Healthcare and research-	interdisciplinary interactions, Legal aspects of medical care, Applications in authentic settings.  Reference to the study guide for a detailed background of this	Independent study 36hrs Assessment 4hrs Assessment Plan – See Study Guide for details.  48 contact hours/120 notional hours Lectures 4 Group work 20 Practicum 20 Independent study 10
Community Healthcare and research-	interdisciplinary interactions, Legal aspects of medical care, Applications in authentic settings.  Reference to the study guide for a detailed background of this	Independent study 36hrs Assessment 4hrs Assessment Plan – See Study Guide for details.  48 contact hours/120 notional hours Lectures 4 Group work 20 Practicum 20 Independent study 10 Presentation 4
Community Healthcare and research-	interdisciplinary interactions, Legal aspects of medical care, Applications in authentic settings.  Reference to the study guide for a detailed background of this	Independent study Assessment Assessment Plan – See Study Guide for details.  48 contact hours/120 notional hours Lectures 4 Group work 20 Practicum 20 Independent study I0 Presentation 4 Assessment Plan —There is no final
Community Healthcare and research-	interdisciplinary interactions, Legal aspects of medical care, Applications in authentic settings.  Reference to the study guide for a detailed background of this	Independent study Assessment Assessment Plan – See Study Guide for details.  48 contact hours/120 notional hours Lectures 4 Group work 20 Practicum 20 Independent study I0 Presentation 4 Assessment Plan —There is no final examination for this module. See Study
Community Healthcare and research- Intermediate(CHRNI0I)	interdisciplinary interactions, Legal aspects of medical care, Applications in authentic settings.  Reference to the study guide for a detailed background of this area of research is required.	Independent study Assessment Assessment Plan – See Study Guide for details.  48 contact hours/120 notional hours Lectures 4 Group work 20 Practicum 20 Independent study I0 Presentation 4 Assessment Plan —There is no final examination for this module. See Study Guide for details.
Community Healthcare and research-Intermediate(CHRNI0I)	interdisciplinary interactions, Legal aspects of medical care, Applications in authentic settings.  Reference to the study guide for a detailed background of this area of research is required.  Inflammation, repair and healing,	Independent study Assessment Assessment Plan – See Study Guide for details.  48 contact hours/120 notional hours Lectures 4 Group work 20 Practicum 20 Independent study I0 Presentation 4 Assessment Plan —There is no final examination for this module. See Study Guide for details.  80 contact hours/ 160 notional hours
Community Healthcare and research- Intermediate(CHRNI0I)	interdisciplinary interactions, Legal aspects of medical care, Applications in authentic settings.  Reference to the study guide for a detailed background of this area of research is required.  Inflammation, repair and healing, Inflammatory diseases,	Independent study Assessment Assessment Plan – See Study Guide for details.  48 contact hours/120 notional hours Lectures 4 Group work 20 Practicum 20 Independent study I0 Presentation 4 Assessment Plan —There is no final examination for this module. See Study Guide for details.  80 contact hours/ I 60 notional hours Lectures 64hrs
Community Healthcare and research-Intermediate(CHRNI0I)	interdisciplinary interactions, Legal aspects of medical care, Applications in authentic settings.  Reference to the study guide for a detailed background of this area of research is required.  Inflammation, repair and healing, Inflammatory diseases, degenerative diseases, post	Independent study Assessment Assessment Plan – See Study Guide for details.  48 contact hours/120 notional hours Lectures 4 Group work 20 Practicum 20 Independent study I0 Presentation 4 Assessment Plan —There is no final examination for this module. See Study Guide for details.  80 contact hours/ I 60 notional hours Lectures 64hrs Student presentations incl. cases studies
Community Healthcare and research-Intermediate(CHRNI0I)	interdisciplinary interactions, Legal aspects of medical care, Applications in authentic settings.  Reference to the study guide for a detailed background of this area of research is required.  Inflammation, repair and healing, Inflammatory diseases, degenerative diseases, post traumatic conditions, metabolic	Independent study Assessment Assessment Plan – See Study Guide for details.  48 contact hours/120 notional hours Lectures 4 Group work 20 Practicum 20 Independent study 10 Presentation 4 Assessment Plan — There is no final examination for this module. See Study Guide for details.  80 contact hours/160 notional hours Lectures 64hrs Student presentations incl. cases studies 16hrs
Community Healthcare and research-Intermediate(CHRNI0I)	interdisciplinary interactions, Legal aspects of medical care, Applications in authentic settings.  Reference to the study guide for a detailed background of this area of research is required.  Inflammation, repair and healing, Inflammatory diseases, degenerative diseases, post	Independent study Assessment Assessment Plan – See Study Guide for details.  48 contact hours/120 notional hours Lectures 4 Group work 20 Practicum 20 Independent study 10 Presentation 4 Assessment Plan — There is no final examination for this module. See Study Guide for details.  80 contact hours/160 notional hours Lectures 64hrs Student presentations incl. cases studies 16hrs

		I. D. T
	Amputations; Post-	Assessment Plan —There is no final
	traumatic osteoporosis;	examination for this module. See Study
	Aseptic bone necrosis; Paralysis	Guide for details.
	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/ 80 notional hours
(PYCLI0I)	Understanding a helping	Lectures 28hrs
,	relationship; Understanding	Assignments I6hrs
	human development throughout	o .
	the life cycle; Basic	Assessment 4hrs
	principles of social	Assessment Plan —There is no final
	constructionism and	examination for this module. See Study
	externalising conversations to a	Guide for details.
	helping relationship;	Guide for details.
	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.	
PHARMACOLOGY	Basic pharmacology;	72 contact hours/ 120 notional hours
(PHCYI0I)	Pharmacodynamics;	Lectures 42hrs
	Pharmacokinetics; Central	Tutorials 12hrs
	nervous system; Autonomic	Assignments I2hrs
	and peripheral (somatic)	Independent study 48hrs
	nervous system; Non-	Assessment 6hrs
	steroidal anti-inflammatory	
	drugs; Vaccines;	Assessment Plan —There is no final
		- 10000001110110 1 10011 1110110 10 110 11101
i	Cardiovascular system;	examination for this module. See Study
	Cardiovascular system; Haemopoietic system;	
	Haemopoietic system;	examination for this module. See Study
	Haemopoietic system;	examination for this module. See Study
	Haemopoietic system; Respiratory system; Gastro-	examination for this module. See Study
	Haemopoietic system; Respiratory system; Gastro- intestinal tract;	examination for this module. See Study
	Haemopoietic system; Respiratory system; Gastro- intestinal tract; Endocrinology; Vitamins and minerals; Anti-neoplastic	examination for this module. See Study
	Haemopoietic system; Respiratory system; Gastro- intestinal tract; Endocrinology; Vitamins and minerals; Anti-neoplastic drugs and immune suppressors;	examination for this module. See Study
	Haemopoietic system; Respiratory system; Gastro- intestinal tract; Endocrinology; Vitamins and minerals; Anti-neoplastic drugs and immune suppressors; Wound care; Dermatology;	examination for this module. See Study
	Haemopoietic system; Respiratory system; Gastro- intestinal tract; Endocrinology; Vitamins and minerals; Anti-neoplastic drugs and immune suppressors; Wound care; Dermatology; Poisoning and emergencies;	examination for this module. See Study
BIOMECHANICS	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	examination for this module. See Study Guide for details.
BIOMECHANICS III	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 Tissue Mechanics; Spinal	examination for this module. See Study Guide for details.  72 contact hours/ 120 notional hours
BIOMECHANICS III (BIMC301)	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 Tissue Mechanics; Spinal Biomechanics; Upper Limb	examination for this module. See Study Guide for details.  72 contact hours/ 120 notional hours Lectures 24hrs
	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 Tissue Mechanics; Spinal Biomechanics; Upper Limb Biomechanics; Cranial	examination for this module. See Study Guide for details.  72 contact hours/ 120 notional hours Lectures 24hrs Practicals 18hrs
	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  Tissue Mechanics; Spinal Biomechanics; Upper Limb Biomechanics; Cranial Biomechanics; Control	examination for this module. See Study Guide for details.  72 contact hours/ 120 notional hours Lectures 24hrs Practicals 18hrs Tutorials 2hrs
	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 Tissue Mechanics; Spinal Biomechanics; Upper Limb Biomechanics; Cranial	examination for this module. See Study Guide for details.  72 contact hours/ 120 notional hours Lectures 24hrs Practicals 18hrs Tutorials 2hrs Case studies 12hrs
	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  Tissue Mechanics; Spinal Biomechanics; Upper Limb Biomechanics; Cranial Biomechanics; Control	examination for this module. See Study Guide for details.  72 contact hours/ 120 notional hours Lectures 24hrs Practicals 18hrs Tutorials 2hrs Case studies 12hrs Independent study 48hrs
	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  Tissue Mechanics; Spinal Biomechanics; Upper Limb Biomechanics; Cranial Biomechanics; Control	examination for this module. See Study Guide for details.  72 contact hours/ 120 notional hours Lectures 24hrs Practicals 18hrs Tutorials 2hrs Case studies 12hrs Independent study 48hrs Assessment 6hrs
	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  Tissue Mechanics; Spinal Biomechanics; Upper Limb Biomechanics; Cranial Biomechanics; Control	examination for this module. See Study Guide for details.  72 contact hours/ 120 notional hours Lectures 24hrs Practicals 18hrs Tutorials 2hrs Case studies 12hrs Independent study 48hrs

		Guide for details.
PRINCIPLES OF	Knee Ankle Foot Orthotics	192 contact hours/ 320 notional hours
	(KAFO); Hip Knee Ankle	Lectures 64hrs
	Foot Orthotics (HKAFO);	Practicals 48hrs
(POPR301)	Hip Orthotics (HO); Spinal	Tutorials 32hrs
(1 01 11301)	Orthotics: Hernias and	Case studies 32hrs
	Trusses: Vascular	Independent study 128hrs
	,	Assessment I6hrs
	Compression Therapy; Cranial Orthotics: Hip	Assessment Plan —There is no final
	- · · · · - · · · · · · · · · · · · · ·	
	Disarticulation Prosthetics;	examination for this module. See Study
	Upper Limb Prosthetics;	Guide for details.
	Breast Prosthesis	
	Knee Ankle Foot Orthotics	144 contact hours/ 240 notional hours
III (CLCP301)	(KAFO); Hip Knee Ankle	Clinical practice 204hrs
	Foot Orthotics (HKAFO);	Group work 24hrs
	Hip Orthotics (HO); Spinal	Report writing 12hrs
	Orthotics; Hernias and	Assessment Plan —There is no final
	Trusses; Vascular	examination for this module. See Study
	Compression Therapy;	Guide for details.
	Cranial Orthotics; Hip	
	Disarticulation Prosthetics;	
	Upper Limb Prosthetics;	
	Breast Prosthesis	
Year 4		
Community Healthcare	Reference to the study guide for	48 contact hours/120 notional hours
and research-	a detailed background of	Lectures 4
Advanced(CHRA101)	this area of research is	Group work 20
	required.	Practicum 20
		Independent study 10
		Presentation 4
		Assessment Plan -There is no final
		examination for this module. See Study
		Guide for details.
CLINICAL STUDIES II	Nervous system disorders and	120 contact hours/ 240 notional hours
(CLCS201)	diseases (child and adult)(CNS	Lectures 96hrs
ĺ ,	and PNS) including Polio,	Student seminars incl. case studies
	Cerebral palsy, paraplegia and	24hrs
	quadriplegia, ataxia, Parkinson's	Self study 120hrs
	disease. Spinal and thoracic	Assessment Plan —There is no final
	deformities, scoliosis, kyphosis;	examination for this module. See Study
	Diseases of the spine;	Guide for details.
	Circulatory disorders;	
	Metabolic disorders;	
	·	
	Lumors: Degenerative	
	Tumors; Degenerative	
	diseases; Burns;	
CLINICAL PRACTICE	diseases; Burns; Fractures	192 contact hours/ 320 notional hours
	diseases; Burns; Fractures Prescription, fitting and check-	192 contact hours/ 320 notional hours Clinical practice 144hrs
IVA (ORTHOTICS)	diseases; Burns; Fractures Prescription, fitting and check- out activities within the clinic	Clinical practice 144hrs
	diseases; Burns; Fractures Prescription, fitting and checkout activities within the clinic team; General laboratory	Clinical practice 144hrs Special case discussions 32hrs
IVA (ORTHOTICS)	diseases; Burns; Fractures Prescription, fitting and checkout activities within the clinic team; General laboratory practice: use of hand tools,	Clinical practice 144hrs Special case discussions 32hrs Consultations and report writing 16hrs
IVA (ORTHOTICS)	diseases; Burns; Fractures  Prescription, fitting and checkout activities within the clinic team; General laboratory practice: use of hand tools, machine tools and materials,	Clinical practice 144hrs Special case discussions 32hrs Consultations and report writing 16hrs Self study 128hrs
IVA (ORTHOTICS)	diseases; Burns; Fractures  Prescription, fitting and checkout activities within the clinic team; General laboratory practice: use of hand tools, machine tools and materials, component production;	Clinical practice 144hrs Special case discussions 32hrs Consultations and report writing 16hrs Self study 128hrs Assessment Plan —There is no final
IVA (ORTHOTICS)	diseases; Burns; Fractures  Prescription, fitting and checkout activities within the clinic team; General laboratory practice: use of hand tools, machine tools and materials, component production; Patient examinations,	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
IVA (ORTHOTICS)	diseases; Burns; Fractures  Prescription, fitting and checkout activities within the clinic team; General laboratory practice: use of hand tools, machine tools and materials, component production;	Clinical practice 144hrs Special case discussions 32hrs Consultations and report writing 16hrs Self study 128hrs Assessment Plan —There is no final

	evaluation; Measuring and casting, cast rectification, fabrication, fitting, aligning & finishing devices; Case history/record keeping; Patient information, medical history, and record keeping.  Assessment, design, prescription, fitting, evaluation, education and check-out activities within the clinic team; General laboratory practice: use of hand tools, 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.	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.
CLINIC, LABORATORY AND BUSINESS MANAGEMENT (CLBMI0I)	Materials acquisition, handling and stock control; Workforce management; Production cost calculations; Budgeting, invoicing, receipting and accounting; Clinic management, appointment systems, record keeping; Property management, care and maintenance; Environmental/ecological considerations; Entrepreneurship Theory; Business Plan development; Marketing; Operations Management; Human Resources; Presentation Skills	80 contact hours/ 160 notional hours Self study 64hrs Group work 24hrs Lectures 64hrs Assessment 8hrs Assessment Plan —There is no final examination for this module. See Study Guide for details.
ADVANCED CLINICAL PRACTICE (ACLP401)	Clinical practice in a facility of the student's choice outside the designated centers used for training; This could include private practices/training centers nationally or internationally, as arranged by the student in consultation with the clinical coordinator/HOD.	2 contact hours/ 80 notional hours Independent 64hrs Reflective Integrated assignment 16hrs Assessment Plan —There is no final examination for this module. See Study Guide for details. Includes a report of completed hours spent at a suitable facility, as supplied by the Department of O & P.