

Introduction

The BSc Degree Course in Prosthetics and Orthotics was established in 1999 by the Tanzania Training Centre for Orthopaedic Technology (TATCOT) which was then incorporated as the Department of Prosthetics and Orthotics of the Faculty of Rehabilitation Medicine in Kilimanjaro Christian Medical College (KCM-College), one of the constituent colleges of Tumaini University.

TATCOT is located in Kilimanjaro Christian Medical Centre (KCMC) which is an institution of the Good Samaritan Foundation of the Evangelic Lutheran Church of Tanzania and is a consultant and referral medical centre for the Northern Zone of Tanzania.

KCM-College is situated only 4 km from Moshi town centre, 55 km from Kilimanjaro International Airport (KIA), 600 km from JK Nyerere International Airport, Dar es Salaam and 430 km from Jomo Kenyatta International Airport, Nairobi, Kenya. There are many reliable connections from these airports by taxi or by bus.



BSc in Prosthetics and Orthotics

The BSc in Prosthetics and Orthotics is offered by the Faculty of Rehabilitation Medicine, Kilimanjaro Christian Medical College (KCM-College), Tumaini University. The course is intended to enrol students from Tanzania and other English speaking African countries as well as other interested countries.

The BSc in Prosthetics and Orthotics is composed of a broad range of theoretical and other subjects including physical and clinical assessment and examination of patients with neuromuscular and skeletal deficiencies. It also includes design of prosthetic and orthotic components as well as the prescription, fabrication, fitting and alignment of the full range of orthopaedic devices available. The clinical practice in the course includes the clinical examination and evaluation of individual patients in order to prescribe and deliver the appropriate prosthesis or orthosis to each individual.

The broad objectives of the BSc in Prosthetics and Orthotics are to provide the graduate with:

- A high level of competence in prosthetics and orthotics clinical practice.
- The practical skills and knowledge necessary to meet the needs of the disabled population.
- The knowledge and skills necessary to respond and adapt to the advances in science and technology in order to meet the demands of differing environmental, social, cultural and economic conditions.
- The ability to develop designs and fabrication procedures for orthopaedic appliances suitable for different types of physical disabilities.
- The motivation and capacity to carry out training and educational activities in technical orthopaedics.
- An understanding of professional ethics and an appreciation of the individual social, cultural, psychological and economic factors which may influence the process of rehabilitation.
- A clear concept of the role and responsibilities of the Prosthetist and Orthotist towards patients, colleagues and the clinical team.
- A good knowledge of managing, coordinating and supervising the activities of technical staff such as orthopaedic technologists, orthopaedic technicians, bench workers and other auxiliary staff.
- A detailed understanding of the management and delivery of the prosthetics and orthotics service.

The duration of the course for the BSc in Prosthetics and Orthotics is four years commencing in October each year. The teaching year comprises 42 weeks of study with approximately 35 teaching hours in each week.

The KCM-College of Tumaini University may grant exemption of the equivalent of 1 year of some of the clinical content of the course by recognising an ISPO accredited Category-II course of study offered by another University (e.g. the Diploma in Orthopaedic Technology offered by the University of Dar es Salaam) followed by a period of clinical work. In such cases the duration of the course is reduced to 3 years.

Course outline

Compulsory subjects by year	1 st	2 nd	3 rd	4 th
P&O Science: Practical	✓	✓	✓	✓
Anatomy and Physiology	✓	✓	✓	
Biomechanics & Mechanics	✓	✓	✓	✓
P&O Science: Theory	✓	✓	✓	✓
Technology in P&O	✓	✓	✓	
Engineering Design	✓	✓		
Computer Science	✓			
Statistics & Mathematics		✓	✓	
Electrotechnology		✓	✓	
Pathology		✓	✓	✓
Clinic & Workshop Management				✓
Research Project				✓
Clinical/Field Attachment				✓

Entry qualifications

The course has a capacity to admit a maximum of 10 students each academic year.

To qualify for admission to the BSc in Prosthetics and Orthotics, the applicants should meet one of the following requirements:

- An Advanced Level Form VI Certificate (ACSE) with at least principal passes (i.e. not lower than 4 points) in any three of the science subjects:
 - Physics
 - Chemistry
 - Biology
 - Mathematics
- A qualification equivalent to the above from an institution recognised by the KCM-College
- A Diploma in Orthopaedic Technology from an ISPO approved and recognised institution provided the applicant has obtained distinction (i.e. B Grade or above) in Mathematics, Mechanics, Biomechanics, Pathology and Prosthetics and Orthotics.

Interview and entry examination: In addition to meeting the above candidates will be required to pass an entry examination and an interview.

Age: 18 years and above

Sex: Both Male and Female candidates are eligible to join the course.

Health: Candidates must possess a medical certificate indicating that he/she is mentally and physically fit to undertake the course

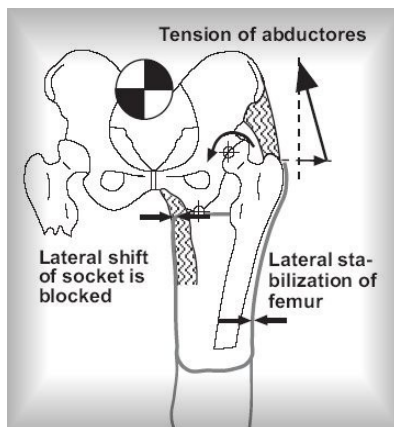
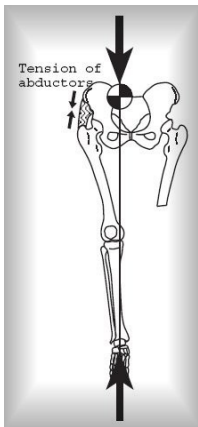
Language: Medium of communication is English. Candidates must exhibit competence in written and spoken English.

Course fees

The course fees should be paid in US\$ or equivalent directly to the Bank and Account Number indicated on the letter of admission to the course. The yearly course fees should be paid in total before the beginning of the course, or in 2 instalments by special arrangement.

The monthly allowances of subsistence for students during the period of the course will depend on their parents or sponsoring agencies. However, it is suggested that the foreign student's monthly allowances should be sufficient to cover food, pocket money and other daily expenses.

Course Fee pay to College	Year 1	Year 2	Year 3	Year 4
Annual Fees				
Application fee	30	00	00	00
Registration fee	60	00	00	00
Identity card fee	10	00	00	00
Medical capitation	110	110	110	110
Tuition fee	3360	3360	3360	3360
Faculty need (e.g. white coat) fee	2280	2280	2280	2280
Seminar, Conference fee	75	75	75	75
Field study fee	00	00	400	00
Examination fee	150	150	150	150
Graduation Ceremony fee	00	00	00	100
Students union fee	20	20	20	20
ICT- facilitation fee	30	30	30	30
Research project	00	00	00	1000
Resident permit	500	00	500	00
Caution money	30	30	30	30
Sub-Total	6655	6055	6955	7155
Stipend paid to student	Year 1	Year 2	Year 3	Year 4
Accommodation	2000	2000	2000	2000
Meals money	1600	1600	1600	1600
Pocket money	400	400	400	400
Stationary	100	100	100	100
Special skills equipment	00	500	00	00
Books	200	200	200	200
Sub-Total	4300	4800	4300	4300
Grand-Total	10955	10855	11255	11455



* Fees for Tanzanian students can be found on the webpage: www.tatcot.org

Sponsorship

Several organisations offer study grants for the BSc in Prosthetics and Orthotics programme. Those intending to join the course should process their requests for grants in their own countries through the appropriate institutions, for example the Ministry of Health.

The following organisations are recommended as possible sponsors:

- Ministry of Health (MoH)
- Ministry of Science, Technology and Higher Education (MSTHE)
- International Committee of the Red Cross (ICRC)
- World Health Organisation (WHO)
- United States Agency for International Development (USAID) through the International Society for Prosthetics and Orthotics (ISPO)

Prospective students should consult country offices of the above organisations.

Other courses offered by the Faculty of Rehabilitation Medicine

- BSc in Physiotherapy (4 years)
- Diploma in Occupational Therapy (3 years)

Accommodation

Shared accommodation is available for Degree students in private houses situated outside the campus. Students are strictly forbidden to accommodate their family or friends within the accommodation.

Applications

Application dates:

- Applications should be submitted to the Dean of the Faculty of Rehabilitation Medicine by the 31st January of the year of entry:
The Dean, Faculty of Rehabilitation Medicine
KCM-College, Tumaini University
PO Box 8690, Moshi, Tanzania
Tel: (+255) 27 27 53986/7
Fax: (+255) 27 27 52038
Email: tatcot@kilinet.co.tz
 - Candidates must confirm their place to the Dean of the Faculty of Rehabilitation Medicine in writing not later than 31st March of the year of entry.
 - Late applications will normally be considered for the following academic year.
- * Fees for Tanzanian students can be found on the webpage: www.tatcot.org

BSc Degree Course

in

Prosthetics and Orthotics

KCM-College, Tumaini University
Moshi, Tanzania



The Provost
KCM-College, Tumaini University
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KCM-COLLEGE
Kilimanjaro Christian Medical College
TUMAINI UNIVERSITY