

FACULTY OF ENGINEERING

DEPARTMENT OF BIOMEDICAL ENGINEERING

PROSTHETICS AND ORTHOTICS

Master of Science in Prosthetics and Orthotics

Postgraduate Diploma in Prosthetics and Orthotics

Postgraduate Certificate in Prosthetics and Orthotics

These regulations are to be read in conjunction with [General Academic Regulations - Postgraduate Taught Degree Programme Level](#).

Admission

1. See [General Academic Regulations - Postgraduate Taught Degree Programme Level](#).
2. The candidates should also have an International Category 1 degree award of equivalent in Prosthetics and Orthotics and be eligible for state registration as a prosthetist/orthotist.

Duration of Study

3. See [General Academic Regulations - Postgraduate Taught Degree Programme Level](#).

Mode of Study

4. The programmes are available by full-time and part-time study.

Curriculum

5. All students shall undertake an approved curriculum as follows:
 - i. for the Postgraduate Certificate no fewer than 60 credits
 - ii. for the Postgraduate Diploma no fewer than 120 credits
 - iii. for the degree of MSc no fewer than 180 credits including a project
6. As permitted by the [General Academic Regulations - Postgraduate Taught Degree Programme Level](#) and at the discretion of the Programme Leader, exemption from part of the programme may be granted to students submitting evidence of appropriate academic attainment or accredited prior experiential learning.

Compulsory Modules

Module Code	Module Title	Level	Credits
BE918	Professional Studies in Biomedical Engineering	5	10
BE919	Research Methodology	5	10
BE921	Disability and Societal Effects	5	20
Either			
BE911	Engineering Science	5	20
Or			
BE915	Medical Science for Engineering	5	20
Students for the degree of MSc only in addition will undertake:			

BE945	Prosthetic and Orthotic Masters Project	5	60
-------	---	---	----

Optional Modules

Optional List A - No fewer than 40 credits chosen from:

Module Code	Module Title	Level	Credits
BE929	Orthotic Management of Neurological Condition B	5	20
BE930	Orthotic Management of Diabetic Foot B	5	20
BE931	Hip, Knee and Ankle Disarticulation B	5	20
BE932	Clinical Governance B	5	20
BE933	Orthotic Management of Spinal Deformity B	5	20
BE934**	Clinical Gait Analysis	5	20
BE935	Upper Limb Prosthetics B	5	20
BE936	Lower Limb Prosthetic Design B	5	20
BE937	Paediatric Lower Limb Prosthetics B	5	20
BE956**	Orthotic Management of Foot and Ankle Musculoskeletal (MSK) Conditions	5	20

**denotes those modules delivered by online learning. A maximum of 20 credits delivered by online learning may be selected.

Optional List B - No fewer than 20 credits chosen from:

Module Code	Module Title	Level	Credits
BE916	Introduction to Biomechanics	5	10
BE901	Regenerative Medicine & Tissue Engineering	5	10
BE900	Tissue Mechanics	5	10
BE904	Clinical and Sports Biomechanics	5	10
BE905	Bio-signal Processing and Analysis	5	10
BE906	Biomaterials and Biocompatibility	5	10
BE903	Cardiovascular Devices	5	10
BE920	The Medical Device Regulatory Process	5	10
BE923	Haemodynamics for Engineers	5	10
BE924	Medical Robotics	5	10

BE925	Numerical Modelling in Biomedical Engineering	5	10
BE928	Rehabilitation Technology	5	10
Students for the Postgraduate Diploma only in addition will have the optional module:			
BE922	PGDip Prosthetic and Orthotic Dissertation	5	20

Examination, Progress and Final Assessment

7. See [General Academic Regulations - Postgraduate Taught Degree Programme Level](#).

8. The final award will be based on performance in the examinations, coursework and the Project where undertaken.

Award

9. **Degree of MSc:** In order to qualify for the award of the degree of MSc in Prosthetics and/or Orthotics, a candidate must have performed to the satisfaction of the Board of Examiners and must normally have accumulated no fewer than 180 credits including those for all the compulsory modules within the curriculum and the Project 94500.

10. **Postgraduate Diploma:** In order to qualify for the award of the Postgraduate Diploma in Prosthetics and/or Orthotics, a candidate must normally have accumulated no fewer than 120 credits.

11. **Postgraduate Certificate:** In order to qualify for the award of the Postgraduate Certificate in Prosthetics and Orthotics, a candidate must normally have accumulated no fewer than 60 credits from the taught modules of the programme of which 40 must have been awarded from the list of compulsory and optional List A modules.