FACULTY OF ENGINEERING

DEPARTMENT OF BIOMEDICAL ENGINEERING

BIOFLUID MECHANICS

Master of Science in Biofluid Mechanics
Postgraduate Diploma in Biofluid Mechanics
Postgraduate Certificate in Biofluid Mechanics

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.

Duration of Study

2. See General Academic Regulations - Postgraduate Taught Degree Programme Level.

Mode of Study

3. The programmes are available by full-time study.

Curriculum

4. 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

5. 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
BE915	Medical Science for Engineering	5	20
BE918	Professional Studies in Biomedical Engineering	5	10
BE919	Research Methodology	5	10
BE926	Biofluid Mechanics	5	20
BE927	Industrial Software	5	20
Students for the MSc in Biofluid Mechanics only:			
BE907	Project	5	60

Optional Modules

MSc in Biofluid Mechanics

No fewer than 40 credits from:

Module Code	Module Title	Level	Credits
BE923	Haemodynamics for Engineers	5	10
BE925	Numerical Modelling in Biomedical Engineering	5	10
BE903	Cardiovascular Devices	5	10
BE920	The Medical Device Regulatory Process	5	10
BE500	Entrepreneurship & Commercialization in Biomedical Engineering	5	10
BE916	Introduction to Biomechanics	5	10
MM506	Finite Element Methods for Boundary Value Problems and Approximation	5	20
MM508	Mathematical Biology and Marine Population Modelling	5	20
EF927	Design Management	5	10
EF932	Risk Management	5	10

Students for the Postgraduate Diploma only in addition will have the optional module:

Module Code	Module Title	Level	Credits
BE914	Biomedical Engineering Dissertation	5	20

Examination, Progress and Final Assessment

6. See General Academic Regulations - Postgraduate Taught Degree Programme Level.

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

Award

8. **Degree of MSc:** In order to qualify for the award of the degree of MSc in Biofluid Mechanics, a candidate must have performed to the satisfaction of the Board of Examiners and must have accumulated no fewer than 180 credits including those for all the compulsory modules within the curriculum and the Project.

9. **Postgraduate Diploma:** In order to qualify for the award of the Postgraduate Diploma in Biofluid Mechanics, a candidate must have accumulated no fewer than 120 credits from the programme curriculum.

10. **Postgraduate Certificate:** In order to qualify for the award of the Postgraduate Certificate in Biofluid Mechanics, a candidate must have accumulated no fewer than 60 credits from the taught modules of the programme curriculum.