

# BMilHons in Technology

## Admission Requirements

Subject to consultation at the lecturers in the School of Science and Technology, one of the following degrees is required:

- a BMil degree in Technology with a final mark of 60% in each of our two major subjects in the final year;
- a BMil degree in Technology and Defence Management with a final mark of at least 60% in Computer Information Systems, as well as in one of the following in the final year: Aeronautical Science (Mil), Military Geography or Nautical Science; or
- any other relevant bachelor's degree that has been approved for this purpose by the Programme Coordinator, obtained with a final mark of at least 60% in your major subjects.

## Duration of Programme

The programme runs over two years (distributed in modules).

## Programme Structure

The programme consists of the compulsory Research Assignment (code 66753) of 30 credits and a selection of modules applicable to the focus of the study, the credit total of which should be at least 90. You must obtain at least 50% of the total credits at the Faculty of Military Science.

## Programme Content

You must select relevant modules from one of the specialisation fields listed below. In the specialisation field of Physics, you have to follow modules other departments or faculties for which you must meet their stipulated requirements. You can specialise in the following fields:

### Physics

General Relativity and Cosmology	771(16)
Applied Computer Physics	771(8)
Applied Wave Theory	771(8)
Computational Physics	772(16)
Nuclear Physics	771(16)
Radiation Detection and Measurement	774(16)
Electromagnetism	776(8)
Digital Signal Processing	775(8)
Radiation Safety (Mil)	773(8)
Experimental Research Project	777(30)

### Military Technology

Aircraft Mechanics	771(10)
Aerodynamics	771(10)
Aircraft Design	771(10)

## Computer Information Systems

Advanced Programming Applications	771(12)
Network Protocols	771(12)
Network Security	771(12)
Digital Economy and Electronic Commerce	771(12)
ICT Research Methodologies	771(12)
Computer User Interfaces	771(12)
Cyber Forensics	752(12)
Statistical Inference **	771(16)

*If you already have a strong research statistical background, you may choose an alternative module, offered as part of the BMilHons in Technology, subject to the approval of the CIS Department.*

## Mathematics

### *Compulsory modules*

Computational Mathematics	771(16)
Dynamical Systems	772(16)
Theoretical Fluid Mechanics	773(16)

### *Elective modules*

Partial Differential Equations	719(16)
Probability Theory	771(16)
Statistical Inference	771(16)

## Nautical Science

Military Oceanography	771(20)
Operational Oceanography	771(20)