

2.1.9. BMilHons in Technology

Admission Requirements

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

- a BMil degree in Technology with a final mark of at least 60% in each of your 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 at other departments or faculties, for which you must meet their stipulated requirements. You can specialise in the following fields:

2.9.1. Physics

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|-------------------------------------|---------------|
| General Relativity and Cosmology | 11720 771(16) |
| Applied Computer Physics | 11721 771(8) |
| Applied Wave Theory | 11722 771(8) |
| Computational Physics | 11972 772(16) |
| Nuclear Physics | 11973 771(16) |
| Radiation Detection and Measurement | 11974 774(16) |
| Electromagnetism | 10445 776(8) |
| Digital Signal Processing | 11976 775(8) |
| Radiation Safety (Mil) | 13769 773(8) |
| Experimental Research Project | 14143 742(30) |

2.9.2. Military Technology

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|--------------------|---------------|
| Aircraft Mechanics | 21121 771(10) |
| Aerodynamics | 15733 771(10) |
| Aircraft Design | 34304 771(10) |

2.9.3. Computer Information Systems

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|---|---------------|
| Advanced Programming Applications | 11724 771(12) |
| Network Protocols | 11725 771(12) |
| Network Security | 11728 771(12) |
| Digital Economy and Electronic Commerce | 11730 771(12) |
| ICT Research Methodologies | 11732 771(12) |
| Computer User Interfaces | 64998 771(12) |
| Cyber Forensics | 11978 752(12) |
| Statistical Inference ** | 11736 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.

2.9.4. Mathematics

Compulsory modules

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|-----------------------------|---------------|
| Computational Mathematics | 13766 771(16) |
| Dynamical Systems | 13767 772(16) |
| Theoretical Fluid Mechanics | 13768 773(16) |

Elective modules

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|--------------------------------|---------------|
| Partial Differential Equations | 10643 719(16) |
| Probability Theory | 11735 771(16) |
| Statistical Inference | 11736 771(16) |

2.9.5. Nautical Science

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|--------------------------|---------------|
| Military Oceanography | 12766 771(20) |
| Operational Oceanography | 13570 771(20) |

Disclaimer:

The content above comes from the 2023 Military Science Calendar (Yearbook). Make sure to consult the full [Military Science Calendar](#) to see this extract in context and to check if there have been any changes. Take special note of additional information in the Calendar under section *Postgraduate Programmes*.