

Faculty of Military Science

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General Information

STANDING INVITATION TO PAST STUDENTS

The Registrar cordially invites all past students of Stellenbosch University to notify him in writing or by email (info@sun.ac.za) of any change of address.

The Registrar also welcomes news of distinctions, academic or other, won by our past students, and would appreciate being informed of the titles of any of their publications. The Senior Director: Library and Information Services would be equally happy to receive copies of such publications on behalf of the University Library.

LANGUAGE POLICY

In terms of the contractual agreement between the Department of Defence and Stellenbosch University, the teaching and evaluation of all programmes in the Faculty of Military Science will be conducted in English.

NON-RACISM

Stellenbosch University admits students of any race, colour, nationality or ethnic origin to all rights, privileges, programmes and activities generally accorded or made available to students of the University. The University does not discriminate on the basis of race, colour, nationality or ethnic origin in the implementation of its educational policies, its scholarship and loan programmes, or its sport programmes.

PLEASE NOTE

- 1. In this publication any expression signifying one of the genders includes the other gender equally, unless inconsistent with the context.
- 2. Before making a final choice of modules (subjects), every student should closely consult the relevant timetables. Should it then become apparent that two modules fall in the same time slot on a particular timetable, the University will not allow registration as a student in both of them for the same year/semester since they will be an inadmissible combination.
- 3. The University reserves the right to amend the Calendar at any time. The Council and Senate of the University accept no liability for any inaccuracies there may be in the Calendar. Every reasonable care has, however, been taken to ensure that the relevant information to hand as at the time of going to press is given fully and accurately in the Calendar.
- 4. In the event of uncertainty or a dispute regarding information in Part 10 of the Calendar, the final interpretation will be based on the Afrikaans version.
- 5. Parts 1, 2 and 3 of the Calendar contain general information applicable to all students. Students are urged to note with special care the content of the Provisions relating to Examinations and Promotions in the "University Examinations" chapter of Part 1 of the Calendar.

CALENDAR CLASSIFICATION

The University Calendar is divided into the following parts:

General	Part 1
Bursaries and Loans	Part 2
Student Fees	Part 3
Arts and Social Sciences	Part 4
Science	Part 5
Education	Part 6

AgriSciences	Part 7
Law	Part 8
Theology	Part 9
Economic and Management Sciences	Part 10
Engineering	Part 11
Medicine and Health Sciences	Part 12
Military Science	Part 13
Afrikaans (Part 1 - 12) or English copies of the individual parts may be	obtained from the

Registrar on request.

COMMUNICATION WITH THE UNIVERSITY

Student Number

In dealing with new formal applications for admission, the University assigns a student number to each applicant. This number serves as the unique identification of the person concerned. However, the mere assignment of a student number does not imply that the applicant has been accepted for the proposed programme of study. You will be advised whether or not you have been accepted in a separate letter.

Once you have been informed of your student number you must please quote it in all future correspondence with the University.

Addresses at the Central Administration

Correspondence on academic matters – i.e. study-related matters, bursaries, loans, etc. – should be directed to

The Registrar Stellenbosch University Private Bag X1 MATIELAND 7602 Email: info@sun.ac.za

Correspondence on matters relating to finance and services, including services at University residences, should be directed to

The Executive Director: Operations and Finance Stellenbosch University Private Bag X1 MATIELAND 7602

USEFUL TELEPHONE AND FAX NUMBERS

For divisions and sections not listed below, please contact the Stellenbosch University Contact Centre on the Stellenbosch campus at 021 808 9111, with fax number 021 808 3822 and e-mail info@sun.ac.za.

Faculty of Military Science	Telephone	Fax
The Dean, Faculty of Military Science,	(022) 702 3003	(022) 702 3050
Saldanha		
Faculty Secretary, Saldanha	(022) 702 3019	(022) 702 3050
Interactive Telematic Services Coordinator,	(022) 702 3128	(022) 702 3049
Saldanha		
Faculty Secretary, Stellenbosch	(021) 808 9111	(021) 808 3822
Library (JS Gericke) (Stellenbosch)	(021) 808 4385/	
	(021) 808 4883	(021) 808 4336

The Faculty of Military Science

The Faculty of Military Science resides in the Military Academy, which is located at Saldanha on the West Coast.

QUALIFICATIONS OFFERED BY THE FACULTY

Preparatory Certificate in Military Studies (PCMS) Higher Certificate in Military Studies (HCMS) Bachelor of Military Science (BMil) Bachelor of Military Science with Honours (BMilHons) Master of Military Science (MMil) MPhil in Security Management

SERVICES

1. Academic Development

The following services are provided to prospective and registered students:

- 1.1 study and career guidance;
- 1.2 life skills development;
- 1.3 psychotherapeutic services;

1.4 academic support services.

2. Language Service

Informal isiXhosa, isiZulu, SeSotho, French and German courses are available on request to staff and students.

3. Educational Enrichment of Staff

The Committee for Teaching and Learning provides regular opportunities for academic enrichment. Educational acuity is further ensured through regular interaction with the University, the presentation of papers at national and international conferences and symposia, organising and hosting conferences at the Military Academy and the exchange of guest lecturers.

THE CENTRE FOR MILITARY STUDIES

1. Nature

The aim of the Centre for Military Studies (Cemis) of Stellenbosch University is to analyse security challenges. Cemis reports academically to the Faculty of Military Science, organisationally forms part of the Department of Defence and is located at the Military Academy at Saldanha.

2. Role

Cemis finds itself in a dual position. On the one hand, Cemis conducts research for the Department of Defence, which finances the Centre, and, on the other hand, Cemis is a research institution of Stellenbosch University. The Centre functions within the legal framework of the agreement between the Department of Defence and Stellenbosch University and within the ethical framework for scientific research of the University, and focuses on maintaining scientific standards, academic integrity and intellectual independence.

3. Objectives

3.1 Analysing security, and factors and trends influencing it, in general, as well as in Southern Africa.

3.2 Exchanging information on security trends with other national and international research bodies and, where possible, the undertaking of joint projects.

3.3 Giving guidance to Defence Force members and civilians who research security trends.

3.4 Disseminating research results to the security community and civilian target groups by means of presentations, publications and conferences.

4. Projects

Among the topics on which members of Cemis have already delivered presentations, papers, submissions and publications are the continual expansion of South African thinking on national security; civil-military relations; military human resources and service systems; the management of manpower diversity; the increasing articulation of employee needs in the Department of Defence; military professionalism, ethnicity and race in the Department of Defence; the nature, problems and challenges of the integration process in the Department of Defence; the views of defence force officers on topical issues during the transformation process; the growing influence of information processing on the management of conflict and war; the influence of information on joint training; the nature of the internal deployment of the SA National Defence Force; the connection between urban conflict and religious fundamentalism; the accountability of intelligence Force, can conduct effective peacekeeping operations; security trends in selected African states; the development, capabilities and roles of African armed forces; long-term trends in conflict and security in Africa; and the characteristics of scientific security research.

5. Address

The Director Centre for Military Studies Military Academy SALDANHA 7395 Tel.: (022) 702 3093 Fax: (022) 702 3002 / 702 3060

INTERACTIVE TELEMATIC SERVICES DEPARTMENT

The Aim of Interactive Telematic Services

The aim of Interactive Telematic Services is to ensure that the academic programmes on offer at the Military Academy become more cost-effective and more readily accessible to all Department of Defence personnel. Interactive Telematic Services has the additional advantage of providing education to personnel whilst they remain active in the labour market and furthermore does not necessitate the high costs associated with the transfer of residential student personnel.

Functions of Interactive Telematic Services

The function of Interactive Telematic Services is to provide quality non-residential, contextual higher military education and provide subjects, modules and programmes for which a student may enrol for either degree or non-degree purposes.

Programmes Offered through Interactive Telematic Services

- BMil programme in Security and Africa Studies
- BMil programme in Human and Organisation Development
- BMil programme in Organisation and Resource Management

Duration of Each Programme

- Degree. Maximum: Six years
- Minimum: Four years

Admission Requirements

- Candidates must be computer literate before commencing with their studies.
- Compliance with the minimum academic admission requirements as prescribed by Stellenbosch University.

Address

Interactive Telematic Services Coordinator Interactive Telematic Services Department Faculty of Military Science Private Bag X2 Saldanha 7395 Tel.: 022 702 3128 Fax: 022 702 3049 Interactive Telematic Services Admin Officer Tel.: 022 702 3022 Fax: 022 702 3049

Undergraduate Programmes

1. BACHELOR OF MILITARY SCIENCE (BMil)

The Faculty of Military Science offers the following three-year BMil degree programmes:

BMil in Human and Organisation Development

BMil in Organisation and Resource Management

BMil in Security and Africa Studies

BMil in Technology

BMil in Technology and Defence Management

1.1 Admission to the BMil Programmes

1.1.1 Selection Board

Only individuals who have been selected for undergraduate studies by the Military Academy Selection Board may be admitted to the BMil degree programmes. Prospective students should direct their applications to their respective Services. Information regarding application procedures can be obtained from the Faculty Officer, Military Academy, Private Bag X2, Saldanha, 7395.

1.1.2 Admission Requirements applicable to all BMil Programmes

The following individuals may be admitted to the BMil degree programmes:

For the Senior Certificate up to 2008:

- Individuals in possession of a matriculation certificate or exemption certificate from the Matriculation Board who attained a D aggregate in the final matriculation examination.
- Individuals in possession of a provisional exemption certificate, based on age (23 years and older).
- Individuals in possession of a provisional exemption certificate from the matriculation examination, issued by the Matriculation Board to foreign students.
- Individuals who have achieved a minimum average of 50% to 55% for the Senior Certificate may be subjected to special forms of academic support.

For the National Senior Certificate (NSC) as from 2009:

- A National Senior Certificate (NSC) as certified by Umalusi, with a mark of at least 4 (50% - 59%) in Afrikaans or English, and a mark of at least 4 (50% - 59%) in each of the four school subjects from the list of designated university admission subjects. (The first final examination for the NSC was written at the end of 2008.)

or

- A certificate of full or provisional exemption from the matriculation examination, issued by the Matriculation Board to students from foreign countries or with foreign school qualifications.
- Compliance with the programme and subject-specific admission requirements of the relevant programme.
- Individuals who have achieved a minimum average of 50% to 55% for the Senior Certificate may be subjected to special forms of academic support.

1.1.3 Additional Admission Requirements

For the Senior Certificate up to 2008:

- Individuals interested in the BMil in Technology must have a D symbol (Higher Grade) or a B symbol (Standard Grade) in both Mathematics and Physical Science for the final matriculation examination.
- Individuals interested in the BMil in Technology and Defence Management must have an E symbol (Higher Grade) or a D symbol (Standard Grade) in both Mathematics and Physical Science for the final matriculation examination.

- Individuals interested in the BMil in Organisation and Resource Management or the BMil in Security and Africa Studies, must have an E symbol (Higher Grade) or a C symbol (Standard Grade) in Mathematics for the final matriculation examination.

For the National Senior Certificate (NSC) as from 2009:

- Individuals interested in the BMil in Technology must have Mathematics 4 (50% 59%) and Physical Science 4 (50% 59%).
- Individuals interested in the BMil in Technology and Defence Management must have Mathematics 3 (40% 49%) and Physical Science 3 (40% 49%).
- Individuals interested in the BMil in Organisation and Resource Management or the BMil in Security and Africa Studies, must have Mathematics 3 (40% 49%) or Mathematical Literacy 5 (60% 69%).

1.1.4 Admission by way of the Preparatory Certificate in Military Studies

The Preparatory Certificate in Military Studies (PCMS) provides an opportunity for prospective students who do not fully meet the abovementioned minimum requirements for degree studies, but who have the necessary study potential, to gain admission to the BMil degree programmes through the successful completion of this certificate programme.

1.2 General Provisions

1.2.1 All three years of the BMil degree programmes are followed at the Military Academy in Saldanha.

1.2.2 All first-year and second-year modules in academic disciplines successfully completed at the Military Academy will be recognised in the place of the corresponding first- or second-year modules presented in BA, BSc or BComm programmes in other faculties of the University.

1.2.3 All third-year academic subjects presented for the BMil degree may lead to BAHons, BScHons or BCommHons programmes (as the case may be) in the relevant subjects, but additional study may be required by the department concerned.

1.2.4 The bracketed abbreviation (Mil) after subject names indicates that the content of the syllabus for the relevant subject presented at the Military Academy may differ from that of the subject with the same name in the Stellenbosch-based faculties of Arts and Social Sciences, Science, Law, and Economic and Management Sciences.

1.3 Examination and Promotion Regulations

1.3.1 Reassessment

Provision is made for only two examinations of equal value. A student, who is unsuccessful in any module of any of the final examinations (May/June or November) and who qualifies for reassessment, will undergo an oral or a written reassessment immediately after the first examinations (at the same time as the deferred examinations) in order to determine whether he passes or fails.

1.3.2 Determination of Final Mark

Except in the case of continuous assessment, where only a final mark applies, the determination of the student's final mark for a module (0 - 100) shall take into account (i) the class mark (0 - 100), which is based upon the assessments done during the presentation of the module, and (ii) the examination mark (0 - 100), which includes the student's achievement in the final examination (and in the reassessment, if any), provided that:

1.3.2.1 if the examination mark is 50 or higher, the final mark shall not be less than 50;

1.3.2.2 a final mark of less than 50 shall be awarded to a student if, in the final examinations, he has obtained an examination mark of less than 40;

1.3.2.3 a final mark of less than 40 shall be awarded to a student if, in the final examinations, he has obtained an examination mark of less than 30;

1.3.2.4 in the calculation of a student's final mark, his class mark and examination mark shall be combined in the ratio of 40 to 60 in the case of semester modules, and 50 to 50 in the case of year modules.

1.3.3 Admission to Final Examinations

Except where no class mark is required, a student shall not be admitted to the final examinations in a module unless he has obtained in such module a class mark of at least 40, provided that no student shall be refused admission to such final examinations in a module in which his class mark has been based on one assessment only.

1.3.4 Proceeding to a Module

A student shall be admitted to a module in a particular year of study of a subject only if he is not more than half the credits of a single preceding year of study of such subject in arrears, provided that this rule shall be subject to the relevant corequisite, prerequisite and prerequisite pass modules and shall be subject to the relevant class and examination tables.

2. CERTIFICATES

2.1 PREPARATORY CERTIFICATE IN MILITARY STUDIES (PCMS)

Programme Outline

The Military Academy, in collaboration with the SANDF, identified the need to provide those selected officers and candidate officers of the SANDF, as well as other defence forces, who do not comply with the minimum admission requirements for degree studies at the University or the Military Academy, and/or those members who did not achieve matriculation exemption, with an entry level tertiary qualification (the Preparatory Certificate in Military Studies).

This certificate programme, which is presented by the Military Academy, serves to equip qualifiers with the generic technological, managerial, interpersonal and communication skills that will contribute to their personal and professional growth and empower them to perform their professional duty to the fullest. The programme is presented twice a year, once a semester, and was first presented in January 2001. It consists of three compulsory modules, viz. Study and Life Skills, Introduction to Computers, English Writing and Communication, as well as four optional modules, viz. Introduction to Technology A, Introduction to Technology B, Introduction to Management, and Introduction to Human Behaviour and Cultural Studies. As a prerequisite for selecting either or both of the optional modules, Introduction to Technology A and Introduction to Technology B, the prospective student should have at least written the Mathematics paper in the final school examination. Prospective students may gain access to the BMil programmes of the Faculty of Military Science through the successful completion of this programme. Final selection is subject to the specific conditions given under admission requirements for the respective undergraduate programmes offered by this Faculty. A candidate may gain admission to a specific degree programme by achieving the prescribed performance level in one or both of the Introduction to Technology modules (where applicable), as well as the prescribed aggregate performance level for the programme as a whole.

2.2 HIGHER CERTIFICATE IN MILITARY STUDIES (HCMS)

2.2.1 Admission to the HCMS

The Admission as applicable to the BMil degree programmes applies.

2.2.2 General Provisions

The General Provisions as applicable to the BMil degree programmes apply.

2.2.3 Examination Regulations

The Examination Regulations as applicable to the BMil degree programmes apply.

2.2.4 Articulation from Higher Certificate in Military Studies to BMil Degree

The Department of Defence will annually nominate from the cohort of Certificate students a number of students to be considered by the University for admission to the BMil programme provided that they have achieved an average mark of at least 60% for the Certificate programme. These students must comply with the full requirements of the first year of the BMil programme to continue with the second year of the BMil programme. The Higher Certificate in Military Studies is only awarded to students that do not complete the BMil degree, but have qualified for the Higher Certificate in Military Studies.

HCMS PROGRAMME CONTENT

2.3 HCMS IN HUMAN AND ORGANISATION DEVELOPMENT

Notes

A module of a specific subject in a specific year may only be taken if the corequisite (C), prerequisite (P) and/or prerequisite pass (PP) requirements pertaining to the particular module have been adhered to.

Compulsory Modules

Military Professional Development (12) presented over two semesters, is a core subject.

SEMESTER ONE

Fundamental Modules

114(12)		
114(8)		
114(12)		
114(12),	124(12)	
114(12)		
144(8) P		
144(12)		
144(12)		
144(12)		
144(12)		
144(12)		
	Semester 1	Semester 2
	56	44
	12	36
	68	80
n 148		
	114(8) 114(12) 114(12), 114(12), 114(12) 144(8) P 144(12) 144(12) 144(12) 144(12) 144(12)	114(8) 114(12) 114(12), 124(12) 114(12) 144(12) 144(12) 144(12) 144(12) 144(12) 144(12) 144(12) 144(12) 144(12) 144(12) 144(12) 68

2.4 HCMS IN ORGANISATION AND RESOURCE MANAGEMENT

Compulsory Modules

Military Professional Development (12) presented over two semesters, is a core subject.

SEMESTER ONE

Fundamental Modules

114(12)		
114(12)		
114(12)		
114(12)		
114(12)		
114(12)		
144(12)		
144(12)		
144(12)		
144(12)	P or	
144(12)		
144(12)		
154(12)	or	
144(12)		
	Semester 1	Semester 2
	48	24
	36	60
	84	84
n 168		
	114(12) 114(12) 114(12) 114(12) 114(12) 144(12) 144(12) 144(12) 144(12) 144(12) 144(12) 144(12) 144(12)	114(12) 114(12) 114(12) 114(12) 114(12) 144(12) 144(12) 144(12) 144(12) 144(12) 144(12) 144(12) 144(12) 144(12) 144(12) 144(12) 144(12) 144(12) 144(12) 144(12) 144(12) 144(12) 144(12) 154(12) or 144(12) 6 8 36 84

2.5 HCMS IN SECURITY AND AFRICA STUDIES

Compulsory Modules

Military Professional Development (12) presented over two semesters, is a core subject.

SEMESTER ONE

Fundamental Modules

English Studies (Mil)	114(12)	
Computer Inf. Systems (Mil)	114(12)	
Core		
Military History	114(12)	
Political Science (Mil)	114(12)	
Electives		
Military Geography	114(12) or	
Economics (Mil)	114(12)	

SEMESTER TWO

Core

Military History	144(12)	Р	
Political Science (Mil)	144(12)		
Electives			
Military Geography	144(12)	or	
Economics (Mil)	144(12)		
English Studies (Mil)	144(12)		
Security Law (Mil)	144(12)		
Semester Credits		Semester 1	Semester 2
Compulsory		48	36
Elective		12	36
Total Available Credits		60	72
Credits required for programme	: 120 from 132		

2.6 HCMS IN MILITARY TECHNOLOGY

Notes

1. Aeronautical Science (Mil) is compulsory for SAAF Pilot/Navigator students.

- 2. Military Geography is compulsory for Army students.
- 3. Nautical Science is compulsory for Navy Combat Officer students.

Compulsory Modules

Military Professional Development (12) presented over two semesters, is a core subject.

SEMESTER ONE

Fundamental Modules

English Studies (Mil)	114(12)
Computer Inf. Systems (Mil)	114(12)

Core

Physics (Mil)	114(12) C
And one of the following (where the two Aero	onautical Science modules are seen as one)
Aeronautical Science (Mil)	114(12) and $124(12)$ or

Aeronautical Science (Mil)	114(12) and 124(12) or
Military Geography	114(12) or
Nautical Science	114(12)
Electives	

Mathematics (Mil)	112(6), 122(6)

SEMESTER TWO

Core

Physics (Mil)	144(12) C P	
And one of the following (where the two Aeronautical Science modules are seen as one)		

Aeronautical Science (Mil)	144(12) and 154(12) or
Military Geography	144(12) or
Nautical Science	144(12)

Electives

Mathematics (Mil)	142(6) P 152(6) P
Computer Inf. Systems (Mil)	144(12) PP
Statistics (Mil)	144(12)

Semester Credits	Semester 1	Semester 2
Compulsory	60	48
	48	36
Elective	12	36
Total Available Credits	72	84
	60	72
Credits required for programme: Aircrew 120 from 156		
Rest 120 from 132		

2.7 HCMS IN TECHNOLOGY AND DEFENCE MANAGEMENT Notes

1. Aeronautical Science (Mil) is compulsory for SAAF Pilot/Navigator students.

2. Military Geography is compulsory for Army students.

3. Nautical Science is compulsory for Navy Combat Officer students.

Compulsory Modules

Military Professional Development (12) presented over two semesters, is a core subject.

SEMESTER ONE

Fundamental Modules

English Studies (Mil)	114(12)
Computer Inf. Systems (Mil)	114(12)

Core

Physics (Mil) 124(12) C

And one of the following (see remarks)

Aeronautical Science (Mil)	114(12) and 124(12) or
Military Geography	114(12) or
Nautical Science	114(12)

Electives

Mathematics (Mil)	124(12)
Military History	114(12) (Not available to Aeronautical
	Science students)

SEMESTER TWO

Core

Physics (Mil)	154(12) C	
One of the following (see remarks)		
	144(10) = 1154(10)	

Aeronautical Science (Mil)	144(12) and 154(12) or
Military Geography	144(12) or
Nautical Science	144(12)

Electives

Statistics (Mil)	144(12)
Military History	144(12) P (Not available to Aeronautical
	Science students)
Military Management	144(12)
Computer Inf. Systems (Mil)	144(12) PP or
Economics (Mil)	144(12) or
Security Law (Mil)	144(12)

Semester Credi	its	Semester 1	Semester 2
Compulsory:	Aircrew	60	48
	Rest	48	36
Elective:	Aircrew	12	36
	Rest	24	48
Total Available	Credits:	72	84
Credits require	d for programme: 120 f	rom 156	

3. BACHELOR OF MILITARY SCIENCE (BMil)

3.1 BMil IN HUMAN AND ORGANISATION DEVELOPMENT

Notes

- 1. A module of a specific subject in a specific year may only be taken if the corequisite (C), prerequisite (P) and/or prerequisite pass (PP) requirements pertaining to the particular module have been adhered to.
- 2. A student may take a module of a specific subject in a specific year only if he has passed at least half the credit units of a single preceding year of that specific subject.
- 3. A student may take a specific module in a specific year only if the class and examination timetables allow it.
- 4. Military Ethics is a prerequisite for Military Leadership.

YEAR ONE (136 credits)

Compulsory Modules

SEMESTER ONE

Industrial Psychology (Mil)	114(12), 124(12)	
Military Ethics	114(8)	
English Studies (Mil)	114(12)	
Criminal and Military Law	114(12)	
Computer Inf. Systems (Mil)	114(12)	

SEMESTER TWO

Industrial Psychology (Mil)	144(12)
Military Leadership	144(8) P
Military Management	144(12)
Public and Development Management (Mil)	144(12)
English Studies (Mil)	144(12)
Criminal and Military Law	144(12)

YEAR TWO (128 credits)

Compulsory Modules

SEMESTER ONE

Industrial Psychology (Mil)	214(16)
Public and Development Management (Mil)	214(16)
Contract Law (Mil)	214(16)
Interpretation of Statutes (Mil)	214(16)

SEMESTER TWO

Industrial Psychology (Mil)	244(16), 254(16)
Public and Development Management (Mil)	244(16)
Applied Commercial Law	244(16) C

YEAR THREE (144 credits)

Compulsory Modules

SEMESTER ONE

Industrial Psychology (Mil)	314(24)
Public and Development Management (Mil)	324(24)
Applied Labour Law	314(24)

SEMESTER TWO

Industrial Psychology (Mil)	344(24)
Military Management	344(24)
Public and Development Management (Mil)	344(24)
Programme Credits 408	

3.2 BMil IN ORGANISATION AND RESOURCE MANAGEMENT

Notes

- 1. A module of a specific subject in a specific year may only be taken if the corequisite (C), prerequisite (P) and/or prerequisite pass (PP) requirements pertaining to the particular module have been adhered to.
- 2. A student may take a module of a specific subject in a specific year only if he has passed at least half the credit units of a single preceding year of that specific subject.
- 3. A student may take a specific module in a specific year only if the class and examination timetables allow it.

YEAR ONE (144 credits)

Compulsory Modules

SEMESTER ONE

Military Management	114(12)
Economics (Mil)	114(12)
Financial Accounting (Mil)	114(12)
English Studies (Mil)	114(12)
Criminal and Military Law	114(12)
Computer Inf. Systems (Mil)	114(12)

SEMESTER TWO

Military Management	144(12)
Economics (Mil)	144(12)
Financial Accounting (Mil)	144(12) P or
Statistics (Mil)	144(12)
Criminal and Military Law	144(12)
English Studies (Mil)	144(12) or
Computer Inf. Systems (Mil)	154(12)
Public and Development Management (Mil)	144(12)

YEAR TWO (128 credits)

Elective Modules

Any three from: Economics (Mil), Auditing (Mil), Military Management or Public and Development Management (Mil) plus Contract Law and Industrial Psychology (Mil) or Applied Commercial Law.

SEMESTER ONE

Military Management	214(16)
Public and Development Management (Mil)	214(16)
Economics (Mil)	214(16) PP
Auditing (Mil)	214(16)
Contract Law (Mil)	214(16)

SEMESTER TWO

Military Management	244(16)
Public and Development Management (Mil)	244(16)
Economics (Mil)	244(16)
Auditing (Mil)	244(16)
Industrial Psychology (Mil)	244(16)
Applied Commercial Law	244(16)

YEAR THREE (144 credits)

Elective Modules

Any three subjects taken in the 2nd year of the Organisation and Resource Management programme

SEMESTER ONE

Military Management	314(24)
Public and Development Management (Mil)	314(24)
Economics (Mil)	314(24)
Management Accounting (Mil)	314(24)

SEMESTER TWO

Military Management	344(24)
Public and Development Management (Mil)	344(24)
Economics (Mil)	344(24)
Management accounting (Mil)	344(24) P
Programme Credits 416	

Programme Credits 416

3.3 BMil IN TECHNOLOGY

Notes

- 1. Aeronautical Science (Mil) is compulsory in Year One and Military Technology is compulsory in Year Two and Three for SAAF Pilot/Navigator students.
- 2. Military Geography is compulsory for Army students.
- 3. Nautical Science is compulsory for Navy Combat Officer students.
- 4. A module of a specific subject in a specific year may only be taken if the corequisite (C), prerequisite (P) and/or prerequisite pass (PP) requirements pertaining to the particular module have been adhered to.
- 5. A student may take a module of a specific subject in a specific year only if he has passed at least half the credit units of a single preceding year of that specific subject.

6. A student may take a specific module in a specific year only if the class and examination timetables allow it.

YEAR ONE (120 or 144 credits)

Elective Modules

One of the following: Aeronautical Science (Mil), Military Geography or Nautical Science; and the rest.

SEMESTER ONE

Aeronautical Science (Mil)	114(12) and 124(12) or
Military Geography	114(12) or
Nautical Science	114(12)
Mathematics (Mil)	112(6) and 122(6)
Physics (Mil)	114(12) C
Computer Inf. Systems (Mil)	114(12)
English Studies (Mil)	114(12)

SEMESTER TWO

Aeronautical Science (Mil)	144(12) and 154(12) or
Military Geography	144(12) or
Nautical Science	144(12)
Mathematics (Mil)	142(6) P and 152(6) P
Physics (Mil)	144(12) C, P
Computer Inf. Systems (Mil)	144(12) PP
Statistics (Mil)	144(12)

YEAR TWO (120 credits)

Elective Modules

One of the following: Military Technology, Military Geography or Nautical Science; and two other subjects.

SEMESTER ONE

Military Technology	212(10) P and 222(10) P or
Military Geography	214(20) or
Nautical Science	214(20)
Aeronautical Science (Mil)	212(10) P and 222(10) P
Mathematics (Mil)	212(10) PP and 222(10) PP
Physics (Mil)	212(10) P and 222(10) PP, PP
Computer Inf. Systems (Mil)	214(20) PP

SEMESTER TWO

Military Technology	242(10) P, P and 252(10) P, P or
Military Geography	244(20) or
Nautical Science	244(20)
Aeronautical Science (Mil)	244(20) P
Mathematics (Mil)	242(10) PP and 252(10) PP
Physics (Mil)	242(10) P, P and 252(10) PP, PP
Computer Inf. Systems (Mil)	244(20) PP

YEAR THREE (120 credits)

Elective Modules

One of the following: Military Technology, Military Geography or Nautical Science; and one other subject and Military Management 314.

SEMESTER ONE

Military Technology	312(12) P and 322(12) P or
Military Geography	314(24) or
Nautical Science	314(24)
Aeronautical Science (Mil)	314(24) P, P
Mathematics (Mil)	312(12) PP and 322(12) PP
Physics (Mil)	322(12) PP and 312(12) P or 332(12) C,
	PP
Computer Inf. Systems (Mil)	314(24) P
Military Management	314(24)

SEMESTER TWO

SENIESTERTING	
Military Technology	342(12) P and 352(12) P
Military Geography	344(24)
Nautical Science	344(24)
Aeronautical Science (Mil)	344(24) P
Mathematics (Mil)	342(12) PP and 352(12) PP
Physics (Mil)	342(12) P and 352(12) PP, PP or 362(12)
	PP and 382(12) PP
Computer Inf. Systems (Mil)	344(24) PP
Programme Credits 360 or 372	

3.4 BMil IN TECHNOLOGY AND DEFENCE MANAGEMENT

Notes

- 1. Aeronautical Science (Mil) is compulsory for SAAF Pilot/Navigator students.
- 2. Military Geography is compulsory for Army students.
- 3. Nautical Science is compulsory for Navy Combat Officer students.
- 4. A module of a specific subject in a specific year may only be taken if the corequisite (C), prerequisite (P) and/or prerequisite pass (PP) requirements pertaining to the particular module have been adhered to.
- 5. A student may take a module of a specific subject in a specific year only if he has passed at least half the credit units of a single preceding year of that specific subject.
- 6. A student may take a specific module in a specific year only if the class and examination timetables allow it.
- 7. Aeronautical Science (Mil) 124, 154 are compulsory for SAAF Pilot/Navigator students in the place of Military History 114 and 144.

YEAR ONE (144 credits)

Elective Modules

SEMESTER ONE

One of the following: Aeronautical Science (Mil), Military Geography or Nautical Science; and the rest

Aeronautical Science (Mil)	114(12) or
Military Geography	114(12) or
Nautical Science	114(12)
Military History	114(12) or
Aeronautical Science (Mil)	124(12)
Computer Inf. Systems (Mil)	114(12)
Physics (Mil)	124(12) C

English Studies (Mil)	114(12)
Mathematics (Mil)	124(12)

SEMESTER TWO

One of the following: Aeronautical Science (Mil), Military Geography or Nautical Science; and one of the following: Computer Information Systems (Mil) or Economics (Mil) or Security Law (Mil); and the rest

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Aeronautical Science (Mil)	144(12) or
Military Geography	144(12) or
Nautical Science	144(12)
Military History	144(12) P or
Aeronautical Science (Mil)	154(12)
Computer Inf. Systems (Mil)	144(12) PP or
Economics (Mil)	144(12) or
Security Law (Mil)	144(12)
Physics (Mil)	154(12) C
Military Management	144(12)
Statistics (Mil)	144(12)

YEAR TWO (120 or 128 credits)

Elective Modules

One of the following: Aeronautical Science (Mil), Military Geography or Nautical Science. Military Technology 254 and two of the following: Computer Information Systems (Mil), Military Management, and Military History/Military Strategy.

SEMESTER ONE

Aeronautical Science (Mil)	212(10) P and 222(10) P or
Military Geography	214(20) or
Nautical Science	214(20)
Military Management	214(16)
Military History	214(16) P or
Military Strategy	214(16)
Computer Inf. Systems (Mil)	214(20) PP

SEMESTER TWO

Aeronautical Science (Mil)	244(20) P or
Military Geography	244(20) or
Nautical Science	244(20)
Military Management	244(16)
Military History	244(16) P or
Military Strategy	244(16)
Computer Inf. Systems (Mil)	244(20) PP
Military Technology	254(16)

YEAR THREE (136 or 144 credits)

Elective Modules

One of the following: Aeronautical Science (Mil), Military Geography or Nautical Science; and two of the rest, where Industrial Psychology (Mil) 214 and Military Technology 344 together can be offered as one choice

SEMESTER ONE

Aeronautical Science (Mil)	314(24) P or
Military Geography	314(24) or

Nautical Science	314(24)	
Military Management	314(24)	
Military History	314(24) P or	
Military Strategy	314(24)	
Computer Inf. Systems (Mil)	314(24) P	
Industrial Psychology (Mil)	214(16)	
SEMESTER TWO		
Aeronautical Science (Mil)	344(24) P or	

Aeronautical Science (Mil)	344(24) P or
Military Geography	344(24) or
Nautical Science	344(24)
Military Management	344(24)
Military History	344(24) P or
Military Strategy	344(24)
Computer Inf. Systems (Mil)	344(24) PP
Military Technology	344(24)
Programme Credits 400 or 408 or 416	

3.5 BMil IN SECURITY AND AFRICA STUDIES

Notes

- 1. A module of a specific subject in a specific year may only be taken if the corequisite (C), prerequisite (P) and/or prerequisite pass (PP) requirements pertaining to the particular module have been adhered to.
- 2. A student may take a module of a specific subject in a specific year only if he has passed at least half the credit units of a single preceding year of that specific subject.
- 3. A student may take a specific module in a specific year only if the class and examination timetables allow it.

YEAR ONE (120 credits)

Elective Modules

One of the following: Military Geography or Economics (Mil); and the rest

SEMESTER ONE

Military Geography	114(12) or
Economics (Mil)	114(12)
Military History	114(12)
Political Science (Mil)	114(12)
English Studies (Mil)	114(12)
Computer Inf. Systems (Mil)	114(12)

SEMESTER TWO

Military Geography	144(12) or
Economics (Mil)	144(12)
Military History	144(12) P
Political Science (Mil)	144(12)
English Studies (Mil)	144(12)
Security Law (Mil)	144(12)

YEAR TWO (128 credits)

Compulsory Modules

SEMESTER ONE

Military History	214(16) P
Military Strategy	214(16)
Political Science (Mil)	214(16)
Military Management	114(12)

SEMESTER TWO

Military Geography	244(20)
Military History	244(16) P
Military Strategy	244(16)
Political Science (Mil)	244(16)

YEAR THREE (128 credits)

Elective Modules

Two of the following: Military History, Military Strategy, Political Science (Mil); and the rest

SEMESTER ONE

Military History	314(24) P
Military Strategy	314(24)
Political Science (Mil)	314(24) P
Industrial Psychology (Mil)	214(16)

SEMESTER TWO

Military History	344(24) P	
Military Strategy	344(24)	
Political Science (Mil)	344(24) P	
Industrial Psychology (Mil)	254(16)	
Programme Credits 376		

Programme Credits 376

Postgraduate Programmes

1. HONOURS DEGREES

1.1 BACHELOR OF MILITARY SCIENCE WITH HONOURS (BMilhons)

This degree is conferred upon students who:

- have obtained a BMil degree from this University, or any other bachelor's degree approved by the Senate for this purpose, and who, on written request, are allowed by the Senate, or the Executive Committee acting on its behalf, to register for the BMilHons programme; and
- have followed the prescribed honours programme for a minimum of one year (after obtaining the abovementioned bachelor's degree) at the University and have successfully completed the relevant examination.

1.2 BMilHons in Industrial Psychology

Specific Admission Requirements

In consultation with the lecturers in the Department of Industrial Psychology (Mil):

A BMil degree in Human and Organisation Development with a minimum final mark of 60% in Research Methodology and Psychometrics and in Organisational Psychology.

Programme Structure

The programme focuses on six areas of specialisation in Industrial Psychology.

Presentation

The programme is presented on a modular basis (by means of lectures) in collaboration with the Department of Industrial Psychology of the Faculty of Economic and Management Sciences.

Military Career Psychology	711(15)
Military Psychology	712(15)
Human Resource Management	713(15)
Management of Operational	714(15)
Psychopathology	
Organisational Psychology	715(15)
Research Methodology and Psychometry	742(15)
Research Assignment	742(30)

Programme Content

1.3 BMilHons in Military Geography

Specific Admission Requirements

In consultation with the lecturers in the Department of Military Geography:

A BMil degree (or equivalent qualification) with Military Geography as major subject, in which a minimum final mark of 60% was achieved in the final year of study.

Programme Structure

The programme consists of six modules and a research project on a theme associated with the South African military geography environment.

Presentation

The programme is presented on a modular basis (by means of lectures) over two years. Attendance of scheduled block modules is compulsory.

Programme Content	
Geographical Thought	741(15)
Geographical Methodology	742(15)
Geographical Information Systems	743(15)
Political Geography	744(15)
Environmental Studies and Military Action	745(15)
Environmental Skills and Techniques	746(15)
Research Assignment (Mil Geography)	747(30)

1.4 BMilHons in Military History

Specific Admission Requirements

In consultation with the lecturers in the Department of Military History:

A BMil degree with Military History as major subject for which a minimum final mark of 60% was achieved in the final year of study.

Programme Structure

The programme comprises a combination of three compulsory modules and two optional modules.

Presentation

The programme runs over one year in the case of full-time and two years in the case of part-time students.

Programme Content

Compulsory Modules

Theoretical History I: Research	741(20)
Methodology	
Theoretical History II: Philosophy and	742(20)
Historiography	
Theory and Practice of Military History	743(30)

Optional Modules

Military Strategy	744(20) A theme from General Military
	History or an optional module from the
	BMilHons in Military Strategy
Military History of Africa	745(30) Research assignment – a theme
	from South African Military History or the
	Military History of Africa

1.5 BMilHons in Military Strategy

Specific Admission Requirements

In consultation with the lecturers in the Department of Military Strategy:

A BMil degree with Military Strategy as major or a B degree in an approved related field of study, for which a final mark of 60% was achieved in the final year of study.

Programme Structure

The programme comprises a combination of two compulsory and three optional modules.

Presentation

The programme runs over one year in the case of full-time and two years in the case of part-time students.

Programme Content Compulsory Modules

Research Methodology (Military Strategy)	744(30)
Research Assignment: National Security of	744(30)
Southern African States	

Optional Modules

Optional modules	
Future Warfare	744(20)
Contemporary Warfare in Africa	744(20)
SA Defence Policy since 1994	744(20)
Advanced Study of Military and	744(20)
Operational Strategy	
Strategic Intelligence and Threat	744(20)
Perception	

An approved module from the field of Military History or Political Science (20)

1.6 BMilHons in Organisation and Resource Management

Specific Admission Requirements

In consultation with the lecturers in the School of Defence Organisation and Resource Management:

A BMil degree in Organisation and Resource Management, with a minimum final mark of 60% in the final year in two of the following majors: Military Management, Economics, Management Accounting or Public and Development Management, or any other B degree which has been approved for this purpose by the programme coordinator.

Programme Structure

The programme consists of Research Methodology as a compulsory module; a choice from the undermentioned modules, selected in consultation with the programme coordinator; and a research assignment. The student must obtain a minimum of 120 credits.

Presentation

The programme is presented at the Military Academy on a modular basis (by means of lectures) over a period of two years.

Programme Content

Compulsory Modules

Research Methodology (Organisation and Resource Management)	744(15)
Research Assignment	742(30)

Optional Modules

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Strategic Management Accounting	742(20)
Management Accounting Control Systems	744(20)
Development Management	744(15)
Labour Relations	743(15)
Public Management	744(15)
Macroeconomics	744(15)
Microeconomics	744(15)
International Finance	741(15)
Defence Economics	744(15)
Strategic Management	743(20)
Logistics Management	741(20)
Financial Management	744(20)

1.7 BMilHons in Public and Development Management

Specific Admission Requirements

In consultation with the lecturers in the Department of Public and Development Management:

Any applicable bachelor's degree with a minimum final mark of 60% in each of the two major subjects during the final year.

Programme Structure

The student must attain a minimum total of 120 credits. The programme consists of six modules plus a research assignment.

Programme Content

Development Management	745(15)
Labour Relations	745(15)
Public Management	745(15)
Public Policy Analysis	745(15)
Civil Military Relations	745(15)
Research Methodology (PDM)	745(15)
Research Assignment	745(30)

1.8 BMilHons in Security and Africa Studies

Specific Admission Requirements

In consultation with the lecturers in the School for Security and Africa Studies:

Any BMil degree with Political Science (Mil), Military History or Military Strategy as major, for which a minimum final mark of 60% has been achieved in the final year.

Programme Structure

The programme consists of six compulsory modules.

Presentation

The programme spans one year in the case of full-time and two years in the case of parttime students.

Programme Content

Research methodology	741(30)
International Political Theory	742(15)
South African Political-military Profile in	743(15)
Africa	
Conflict in Africa	744(15)
Africa and the Changed Security Agenda	745(15)
Research assignment: National Security of	746(30)
Southern African States	

1.9 BMilHons in Technology

Admission Requirements

In consultation with the lecturers in the School of Science and Technology:

The BMil degree in Technology with a minimum final mark of 60% in each of the two major subjects in the final year, or the BMil degree in Technology and Defence Management with a minimum final mark of 60% in Computer Information Systems as well as in one of Aeronautical Science (Mil), Military Geography or Nautical Science in the final year.

Programme Structure

The programme consists of the compulsory research assignment code 66753 (30) and a selection of modules applicable to the focus of the study of which the total credits should be at least 90. A minimum of 50% of the total credits must be obtained at the Faculty of Military Science.

Programme Content

The student selects relevant modules from one of the specialisation fields listed below. Certain specialisation fields will require the student to follow relevant modules at other departments or faculties. Where these modules are followed at other departments or faculties, the stipulated requirements must be met. The programme comprises the following:

Presentation

The programme runs for two years (on a modular basis).

1.9.1 Physics

771(12)
771(12)
771(12)
772(12)
771(12)
774(8)
776(8)
775(8)
773(8)

1.9.2 Military Technology

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

1.9.3 Computer Information Systems

Advanced Programming Applications	771(12)
Network Protocols	771(12)
Computer Centre Management	771(12)
Network Security	771(12)
ICT Management	771(12)
Digital Economy and Electronic	771(12)
Commerce	
ICT Project Management	771(12)
ICT Research Methodologies	771(12)
Computer Graphics	771(12)
Cyber Forensics	752(12)

1.9.4 Mathematics

Linear Algebra	771(5)
Numerical and Serial Solutions of Partial	771(10)
Differential Equations	
Probability Theory	771(12)
Statistical Inference	771(16)

1.9.5 Nautical Science

Military Oceanography

771(20)

2. MASTER'S DEGREES

2.1 MASTER OF MILITARY SCIENCE (MMil)

This degree is conferred upon students who:

- obtained a BMilHons degree from this University, or any other honours degree approved by the Senate for this purpose, and who, on written request, are allowed by the Senate, or the Executive Committee acting on its behalf, to register for the MMil programme;
- completed an approved research curriculum and/or advanced study of not less than one year (after obtaining the abovementioned honours degree) at this University or at any other institution approved by the Senate; and
- submitted a satisfactory thesis;

or

- obtained a BMil degree from this University, or any other bachelor's degree approved by the Senate for this purpose, or who achieved in any other manner a standard of competence in their relevant field of study which is deemed by the Senate to be adequate for this purpose, and who, on written request, are allowed by the Senate, or the Executive Committee acting on its behalf, to register for the MMil programme;
- completed an approved research curriculum and/or advanced study of not less than two years (after obtaining the abovementioned bachelor's degree or after achieving the required level of competence), which may include a period of study or research of no more than one year at another institution acknowledged by the Senate;
- succeeded in the prescribed examination; and
- submitted a satisfactory thesis.

2.2 MMil in Military Geography

Admission Requirements

A BMilHons in Military Geography with an average of at least 60%.

Programme Structure

The programme allows for two optional modes of study, both under the guidance of a supervisor.

Option A: the completion of a thesis with prescribed reading in preparation of the research proposal.

Option B: the completion of a structured self-study programme rounded off with a thesis.

Option A (Thesis) (180 credits)

Presentation

The programme is presented over two years.

Programme Content

An approved research topic with prescribed reading is selected in consultation between the candidate and the supervisor. The prescribed reading must lead to a thesis (180) in which the candidate must exhibit the ability to do independent research on a military-related geographical problem.

Option B (Structured) (180 credits)

Presentation

The programme is presented on a modular basis (by means of lectures) over two years. Attendance of scheduled block modules is compulsory.

Programme Content

Advanced study in the form of a structured taught programme in military environmental management, which consists of the following modules:

Military Integrated Environmental Management (30)

Environmental Considerations in Military Operations (30)

Sustainable Military Training Area Management (30)

The completion of a thesis (90), in which the candidate must exhibit the ability to do independent research on a military-related geographical problem.

2.3 MMil in Military History

Admission Requirements

In consultation with the lecturers of the Department of Military History: A BMilHons degree in Military History with a minimum final mark of 60% in each module or another applicable honours degree in which the candidate has duly performed.

Programme Structure

The programme allows for two optional modes of study, both under the guidance of a supervisor.

Option A: The completion of a thesis with prescribed reading in preparation of a research proposal, as well as an oral examination and submission of an article for publication in an accredited journal, or the presentation of a paper at a subject conference or a graduate seminar.

Option B: The completion of a structured self-study programme rounded off by a thesis.

Presentation

Candidates who have already obtained a BMilHons degree may complete the programme after one year of full-time or two years of part-time study.

Option A (Thesis) (180 credits)

Programme Description

Dependent on the academic background of a candidate, the programme coordinator may, in consultation with the subject group, allow the candidate to undertake a thesis based on an approved research proposal on condition that the candidate is in possession of a BMilHons degree in Military History or another applicable honours degree.

A research theme is selected in consultation between the candidate and the supervisor. The research proposal should have a definite focus on the military history of South Africa or Africa and be based on primary (i.e. archival) work.

Programme Content

A thesis (180 credits) in which the candidate must show an ability to undertake independent, scientifically responsible research. The thesis must be drafted in accordance with the guidelines of the University. The candidate must sit for an oral examination. The thesis must be preceded by a literature study leading to a research proposal, which is presented at a Faculty of Military Science Graduate Research Colloquium.

The candidate must publish, or submit for publication, an article on the study theme in a DOE-accredited journal or present a paper at a subject conference or graduate seminar.

Option B (Structured) (180 credits)

Programme Description

Candidates in possession of a BMilHons degree must complete a *capita selecta* of three study themes and submit a thesis of 90 credits on a theme from the military history of Africa.

Programme Content Study themes A theme from General Military History (30) A theme from South African Military History (30) A theme from General Military History of Africa (30) A theme from War and Society (30)

2.4 MMil in Military Strategy

Admission Requirements

In consultation with the lecturers in the Department of Military Strategy: An honours degree in Military Strategy or an approved related field of study with a minimum final mark of 60% in each subject.

Programme Structure

The programme allows for two optional modes of study, both under the guidance of a supervisor.

Option A: The completion of a thesis with prescribed reading in preparation of a research proposal, as well as an oral examination and submission of an article for publication in an accredited journal, or the presentation of a paper at a subject conference or a graduate seminar.

Option B: The completion of a structured self-study programme rounded off by a thesis.

Presentation

Candidates in possession of a BMilHons degree may obtain the MMil degree after one year of full-time or two years of part-time study.

Option A (Thesis) (180 credits)

Programme Description

Depending on the academic background of a candidate, the programme coordinator may, in consultation with the subject group, allow the candidate to undertake a thesis based on an approved research proposal on condition that the candidate is in possession of a BMilHons degree in Military Strategy or another applicable honours degree.

A research theme is selected in consultation between the candidate and the supervisor. The research proposal should have a definite focus on strategic or security-related matters and, if possible, on Africa.

Programme Content

A thesis (180 credits) in which the candidate must show an ability to undertake independent, scientifically responsible research. The thesis must be drafted in accordance with the guidelines of the University. The candidate must sit for an oral examination. The thesis must be preceded by a literature study leading to a research proposal, which is presented at a Faculty of Military Science Graduate Research Colloquium.

The candidate must publish, or submit for publication, an article on the study theme in a DOE-accredited journal or present a paper at a subject conference or graduate seminar.

Option B (Structured) (180 credits)

Programme Description

A candidate in possession of an honours degree must complete a *capita selecta* of three study themes and submit a thesis on the security milieu of Africa.

Depending on the academic background of the student, the programme coordinator may allow the candidate to follow postgraduate modules in related fields of study. Where these modules are followed in some other faculty or institution, the stipulated requirements must be met.

Programme Content Compulsory for all candidates Thesis: A theme that focuses on the African security milieu (90)

Study themes

Contemporary Developments in Strategic Thought (30)

A Study of Military Strategy in Africa (30)

Military Strategy after the Cold War (30)

Warfare in the Post-Cold War Era (30)

2.5 MMil in Organisation and Resource Management

Admission Requirements

The BMilHons in Organisation and Resource Management, BMilHons in Military Management, BMilHons in Public and Development Management or any other related honours qualification as approved by the programme coordinator serves as admission requirement for the two-year MMil degree.

Programme Structure

The programme allows for the following option:

Thesis Option

Programme Description

The student has to submit a thesis (with a credit value of 180) as a result of independent research in Organisation and Resource Management that is chosen after consultation with the programme coordinator and the Chair of the School for Defence Organisation and Resource Management.

2.6 MMil in Security and Africa Studies

Admission Requirements

In consultation with the lecturers of the School for Security and Africa Studies: A BMilHons degree in Security and Africa Studies with a minimum final mark of 60% in each subject or any other honours degree with Military History, Military Strategy, Political Science or another appropriate subject as major, for which a final mark of 60% was achieved in each subject.

Programme Structure

The programme allows for two optional modes of study, both under the guidance of a supervisor.

Option A: The completion of a thesis with prescribed reading in preparation of a research proposal, as well as an oral examination and submission of an article for publication in an accredited journal, or the presentation of a paper at a subject conference or a graduate seminar.

Option B: The completion of a structured self-study programme culminating in a thesis.

Presentation

Candidates must complete the programme after one year of full-time or two years of parttime study.

Option A (Thesis) (180 credits)

Programme Description

Depending on the academic background of a candidate, the programme coordinator may, in consultation with the subject group, allow the candidate to undertake a thesis based on an approved research proposal.

A research theme is selected in consultation between the candidate and the supervisor. The research proposal must have a definite focus on Security and Africa Studies.

Programme Content

A thesis (180 credits) in which the candidate must show an ability to undertake independent, scientifically responsible research. The thesis must be drafted in accordance with the guidelines of the University. The candidate must sit for an oral examination. The thesis must be preceded by a literature study leading to a research proposal, which is presented at a Faculty of Military Science Graduate Research Colloquium.

The candidate must publish, or submit for publication, an article on the study theme in a DOE-accredited journal or present a paper at a subject conference or graduate seminar.

Option B (Structured) (180 credits)

Programme Description

The programme consists of three prescribed modules, as determined by the programme coordinator, as well as a thesis based on an approved research proposal. The research theme for the thesis should be based on the prescribed modules. A research theme is selected in consultation between the candidate and the supervisor. The research proposal must have a definite focus on Security and Africa Studies.

Programme Content

Module 1: Strategy in the Contemporary World (Military Strategy) (30)

Module 2: Conflict in Africa in the Twentieth Century (Military History) (30)

Module 3: International Conflict Resolution and Peacekeeping (Political Science (Mil)) (30)

A thesis (90 credits) in which the candidate must show an ability to undertake independent, scientifically responsible research. The thesis must be drafted in accordance with the guidelines of the University.

2.7 MMil in Technology

Specific Admission Requirements

An applicable BMilHons degree in Technology.

Programme Structure

The student has to submit a thesis with a credit value of 180. It is further expected of the student to write an applicable research article for publication or for presentation at a conference.

Presentation

The programme is presented over at least one year for full-time and two years for part-time students.

2.8 MPhil in Security Management Specific Admission Requirements

Offering of postgraduate programmes is subject to the availability of staff and the number of students.

Subjects, Modules and Module Content

ABBREVIATION AND NUMBERING SYSTEM

All subjects are represented by a subject number of 5 digits. Each module of the subject is represented by a three-digit module code, in which the year of study and semester of presentation (unless otherwise stated) are combined.

The subjects, as well as the module contents, credit value, prerequisite pass, prerequisite and corequisite modules are summarised and given below.

Example:

22969 MILITARY GEOGRAPHY							
114	12	Concepts Geography		Techniques	in	4L, 3P	E

Explanation:

22969 is the subject number and refers to the subject Military Geography. Each such number uniquely identifies the subject to which it has been assigned. Like any other subject, however, Military Geography may involve one or more modules. The module being used here as an example is on the topic of 'Concepts and Techniques in Geography'. This statement of its topic already helps to distinguish it from possible other modules within Military Geography.

The module code of the module in the example is 114(12) (The 12 is normally in brackets).

The first three digits of this module code (above in the first block) are to be understood as follows:

First digit: 1 - shows in which year of study of the curriculum concerned the module is presented: i.e. 1 stands for the first year of study within a curriculum, 2 for the second, etc.

Second digit: 1 - shows the semester or semesters in which the module is presented, in accordance with the scheme below:

1, 2 or 3: modules taught in the first semester;

4, 5 or 6: modules taught in the second semester;

7, 8 or 9: modules extending over both semesters of the academic year, in other words, they are year modules.

Third digit: 4 – has no specific meaning, but can be used to distinguish between modules of the same subject in a specific year of study.

The number in the second block (otherwise in brackets): 12 - shows the credit value attached to the module.

In short: '22969 MILITARY GEOGRAPHY' is the designation of a subject, with '22969' being the subject number. 'Military Geography 114(12)' is one possible designation of the module in question, with '114(12)' being the module number. A fuller designation of the same module would be '22969 MILITARY GEOGRAPHY 114(12)'. In either case, the module number, 114(12), tells us that the module is presented in the first semester of the first year, and that by passing this module a student obtains 12 credits. The teaching load of each module is indicated in the fourth block, after the module topic.

The following abbreviations are used:

- L lectures lasting 40 minutes each (e.g. 1L, 2L)
- P practical periods lasting 40 minutes each (e.g. 1P, 2P, 3P)
- S seminar lasting 40 minutes (e.g. 1S)
- T tutorials lasting 40 minutes each (e.g. 1T, 2T)

The teaching load of Military Geography 114 consists of four lectures plus three practicals per week for the duration of the module, i.e. one semester.

In the last square, the language specification of each module is indicated.

After the description of the content of the module, the prerequisite pass, prerequisite and/or corequisite modules are given for that module. The following abbreviations are used:

- PP = Prerequisite Pass Module
- P = Prerequisite Module
- C = Corequisite Module

In this regard, the following description applies:

A prerequisite pass module is a module that a student must pass, i.e. achieve a final mark of at least 50%, before he may commence studying the module to which it applies.

A prerequisite module is a module in which a student must have achieved a class mark of at least 40% or a final mark of at least 40% in the case of a module subject to continuous assessment, before study in a module for which it is a prerequisite may commence.

A corequisite module is a module that has to be presented before or in the same academic year to which it is applicable.

Note:

No qualification shall be awarded unless the candidate has passed all the relevant prerequisite and corequisite modules.

15822 AERONAUTICAL SCIENCE (MIL)

Please Note

- Qualified SAAF pilots/navigators receive credit for Aeronautical Science (Mil) 114, 124, 144, 154, 212, and 222.
- Only SAAF pilots/navigators and pupil pilots/navigators are allowed to take Aeronautical Science (Mil) 114, 124, 144, 154, 212 and 222

114	12	Basic Aviation Theory	4L, 1T	Е		
Basic aerodynamics: history of flight; basic mathematical concepts; mechanics revision;						
kinematics revisio	n; symbols a	and definitions; flow types; pressure	distribution; b	oundary		
layer theory; lift; o	drag; wing pl	lan forms; lift augmentation; primar	y and secondar	ry flight		
controls.						
Meteorology: com	position of a	atmosphere; atmospheric characteris	stics (pressure,			
temperature, dens	ity, humidity	, adiabatic process, lapse rate and s	tability); wind;	air		
masses; clouds; fo	masses; clouds; fog and mist; visibility; precipitation; fronts; thunderstorms; turbulence;					
ice accretion; pressure systems; climatology; aircraft with observations (airport, radar and						
weather satellites); synoptic charts; codes/documentation; meteorological organisations.						
Flight Simulator: knowledge, skills and attitude integration; cockpit integration; VFR						
procedures: IFR p	rocedures					

Home department: AERONAUTICAL SCIENCE (MIL)

12Basic Aviation Theory5L, 4T	-	
Airmanship: ICAO; Convention of Civil Aviation; South African Civil Aviation		
Regulations; Part 139; Part 172; CATS; basic flight rules; aircrew utilisation; grading;		
efficiency maintenance; air traffic control.		
Advanced aerodynamics I: stability; spinning theory; propeller theory; aircraft performance theory, turning theory; manoeuvre envelope.

Human performance: basic human physiology for aircrew; effects of pressure changes on the human body; effects of aerobatic manoeuvres on the human body; secondary effects of medicine usage on aircrew; basic aviation psychology for aircrew; effects of cockpit dynamics on aircrew.

Flight Simulator: knowledge, skills and attitude integration; cockpit integration; VFR procedures; IFR procedures.

Home department: AERONAUTICAL SCIENCE (MIL)

12

144

Basic Aviation Theory	4L, 1T	Е

Instrument and magnetism: gyroscopes; atmospheric pressure – instruments; basic magnetic theory; electronic instruments.

Avionics I and II: basic radio theory; navigation systems; basic radar theory; primary and secondary radar systems; flight directors.

Flight Simulator: knowledge, skills and attitude integration; cockpit integration; VFR procedures; IFR procedures.

Home department: AERONAUTICAL SCIENCE (MIL)

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Navigation: basic concepts; distance measurement; scale; map projection principles; Mercator and Lamberts projections; measurement of time; relative velocity.

Engines: internal combustion engines; ignition; lubrication; cooling; fuels; engine performance; mixtures; engine handling; turbine engines; mechanics; ignition; fuel transfer. Aircraft technical: airframe and aircraft systems; air driven systems; air conditioning; fuel systems; electrical systems; emergency equipment.

Flight Simulator: knowledge, skills and attitude integration; cockpit integration; VFR procedures; IFR procedures.

Home department: AERONAUTICAL SCIENCE (MIL)

	212	10	Basic Aviation Theory (Inter-	5L, 1P	Е
active Telematic Services)			active Telematic Services)		

Advanced aerodynamics II: stalling; spinning; aircraft performance; manoeuvres. Flight operations and procedures: aerodromes and landing areas; ground visual aids and aerodrome lighting; air information publication (AIP); air information circular (AIC); Notams and SAAF flight information manual (FIM); aerodrome facilities and associated chart legends; holding patterns I and II; approach procedures I – IV; radio communication failure; SIDs and STARs; air traffic control; planning for all weather operations; flight plans.

Navigation plotting: navigation on climb and descent; en route navigation; search patterns; PNR and PET.

Flight planning and performance: definitions and terms; airspeed terminology and symbols; meteorology terminology; aerodrome symbols and terminology; take-off flight path; aircraft manuals; mass and balance.

Avionics III: Doppler navigation; satellite navigation; microwave landing system.

P Aeronautical Science (Mil) 114, 124, 144, 154

Home department: AERONAUTICAL SCIENCE (MIL)

22210Basic Aviation Theory (Inter-5L, 1PE							
		active Telematic Services)					
Helicopter aerody	Helicopter aerodynamics: introduction to helicopter aerodynamics; definitions; helicopter						
control; helicopter	control; helicopter flight part I and II: hovering; forward flight; power requirements;						
autorotation; haza	autorotation; hazardous conditions and recovery actions; helicopter stability.						
High speed aerodynamics: compressibility – part I and II; lift in high speed flight – part I							

and II; drag in high speed flight; high speed stability and control – part I and II; high speed wing designs – part I, II and III.

Multi-engine aerodynamics: asymmetric forces and couples; control in asymmetric powered flight; minimum control and safety speeds; single-engine performance; asymmetric procedures and manoeuvres.

Electronic warfare: electronic warfare (general); air defence deployment; EW response to the radar threat; introduction to infra-red; SIGINT and ESM – part I and II; ECM and ECCM – part I and II.

Aviation Safety: basic concepts; domino effect; man/machine interaction; human factors in aviation safety.

P Aeronautical Science (Mil) 114, 124, 144, 154

Home department: AERONAUTICAL SCIENCE (MIL)

244	20	Advanced Avionic Systems I	5L, 1T	Ε
		(Interactive Telematic		
		Services)		

Advanced avionics: ARINC 429 and 1553 databus architecture; IRS/GPS navigation system; EFIS – electronic flight instruments; head up display (HUD); FLIR; ICNI – integrated comms ident; FADEC – full authority digital engine control; HUMS – health usage monitoring system.

P Aeronautical Science (Mil) 222

Home department: AERONAUTICAL SCIENCE (MIL)

314	24	Advanced Avionic Systems	6L, 1T	Е
		II (Interactive Telematic		
		Services)		

Advanced avionics: night vision goggles (NVG); speech recognition and synthesis; flight management systems; synthetic vision; enhanced situational awareness; TCAS; modelling and simulation: certification.

Flight Controls: Fly-by-wire (FBW); design studies.

P Aeronautical Science (Mil) 244

P Physics (Mil) 124, 154 or 114, 144

Home department: AERONAUTICAL SCIENCE (MIL)

344	24	Human Factors in Aviation	6L, 1T	Е
		and further advanced		
		avionics systems (Interactive		
		Telematic Services)		

Emotional stress; decision making; CRM. Requirements, design analysis, validation and certification: setting requirements; digital avionics modelling and simulation; formal methods; electronic hardware reliability; certification of civil avionics; processes for engineering a system; electromagnetic environment (EME). Software: Ada; RTCA DO-178B/EUROCAE ED-12B. Implementation: fault-tolerant avionics; Boeing B-777; new avionics systems – Airbus A330/A340; McDonnell Douglas MB-11 avionics system; Lockheed F-22 Raptor; advanced distributed architectures. Other Applications: HUMS; FADEC. CRM assignment.

P Aeronautical Science (Mil) 222, 314

Home department: AERONAUTICAL SCIENCE (MIL)

36420 AUDI	ГING	(MIL)					
214	16	Auditing	5L, 1P	Е			
		n: introduction to auditing and the auditi	ng profession	; audit			
reports and pro							
The auditing process: audit responsibilities and objectives; audit evidence; audit							
planning; analytical procedures and documentation; materiality and risk; the study of							
internal control and assessment of control risk; the impact of information technology on							
the audit process; overall audit planning and audit program.							
Home department: ACCOUNTING (MIL) AND AUDITING (MIL)							
244	16	Auditing	5L, 1P	E			
		ting process to the sales and collection cy	cle: audit of sa	ales and			
collection cycle							
		t process to other cycles: audit of the acqu					
		sonnel cycle; audit of inventory and ware					
		repayment cycle; audit of cash balances.		e audit.			
nome departme	ent: AC	COUNTING (MIL) AND AUDITING (MIL)				
		R INF. SYSTEMS (MIL.)					
114	12	Information Systems Theory	5L, 3P	E			
		and Practice					
		concepts: software and utilities; system					
	output; storage; communications and networks; internet; operating systems and systems						
software; knowledge of work productivity concepts; advanced software functionality to							
	ledge o	f work productivity concepts; advanced	software func	tionality to			
support persona	ledge o al and g	f work productivity concepts; advanced roup productivity using email, word pro-	software func cessing, sprea	tionality to dsheets,			
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and implementation; interpersonal skills; interviewing; presentation skills; group

dynamics; risk and feasibility analysis; group-based approaches: project management, joint application development (JAD), and structured walkthroughs; structures versus object-orientated methodologies; rapid application development (RAD), prototyping. ICT project management: managing the systems lifecycle; project tracking; metrics and systems performance evaluation; managing expectations of managers, clients, team members, and others; determining skills requirements and staffing; cost-effectiveness analysis; reporting and presentation techniques; management of behavioural and technical aspects of the project; change management; software tools for change management and monitoring; team collaboration techniques and tools.

PP Computer Inf. Systems (Mil) 144

Home department: COMPUTER INFORMATION SYSTEMS (M	4IL)	

244	20	Information Technology Hard-	5L	, 3P	Е
		ware and Systems Software			

Hardware: CPU architecture, memory, registers, addressing, modes, busses, instruction sets, multi-processors versus single processors; peripheral devices: hard disks and other storage devices, video display monitors, device controllers, input/output; circuits and gates. Application on the micro-architecture level.

Operating system modules: processes; process management; memory and file system management; examples and contrasts of hardware architectures and operating systems.

This module will be continually assessed.

PP Computer Inf. Systems (Mil) 144

Home department: COMPUTER INFORMATION SYSTEMS (MIL)

314	24	Cyber Warfare and Data Communication Networks	6L, 3P	E

Introduction to cyber warfare and security: elementary principles of computer and network security; introduction to encryption, public key certificates and protocols. Data communication and networks: telecommunication configurations; network and web applications; distributed systems; wired and wireless architectures, topologies and protocols; installation, configuration and operation of bridges, routers, switches and gateways; network performance tuning; privacy, security, firewalls, reliability; installation and configuration of networks; monitoring and management of networks; communication standards.

This module will be continually assessed.

P Computer Inf. Systems (Mil) 244

Home department: COMPUTER INFORMATION SYSTEMS (MIL)

344	24	Databases and Information	6L, 3P	Е
		Systems Management		

Databases: introduction to databases; database theory and design; database users; database system concepts and architecture; data modelling using the entity-relationship model, relational constraints and relational algebra; SQL; practical database management; functional dependencies and normalisation for relational databases; practical database design and tuning; emerging database technologies and applications. Information systems management: role of information systems in the digital economy; ethics in information technology management; achieving competitive advantage through strategic use of information systems; implications of the Web revolution; introduction to information and knowledge management; impacts of information systems on organisations, individuals and society.

This module will be continually assessed.

PP Computer Inf. Systems (Mil) 144

Home department: COMPUTER INFORMATION SYSTEMS (MIL)

56987 CONTRACT LAW (MIL)

214

16 Contract Law

5L E

Е

Introduction and basis of contracts: validity requirements, contents and operation of contracts; principles of representation; breach of contract and remedies; termination of obligations.

Home department: MERCANTILE AND PUBLIC LAW (MIL)

46701 CRIMINAL AND MILITARY LAW

114	12	Criminal and Military	y Law	5L	Е
Con aral introdu	ation to	the study of laws the notion	a and accomes	of the low class	rification

General introduction to the study of law: the nature and essence of the law; classification of the South African law; sources of the law; jurisprudence in South Africa. General principles of criminal law; punishment theories and criminal liability; conduct

and prohibition; causation, unlawfulness, culpability.

Home department: MERCANTILE AND PUBLIC LAW (MIL)

144 12 Criminal and Military Law 5L

Law of evidence: introduction to law of evidence; admissibility of evidence; privilege; means of proof; sufficiency of proof and burden of proof.

Military law: introduction and application, military offences; procedure of the disciplinary hearing, procedure of the court of the military judge, boards of inquiry; redress of wrongs, law of armed conflict.

Home department: MERCANTILE AND PUBLIC LAW (MIL)

12092 ECONOMICS (MIL) 12 4L, 1T Е 114 Micro-economics Introduction and background to economic issues and theory; overview of economic systems: theory of demand, supply and interaction in markets: government intervention in markets – price control and taxes; theory of demand; theory of production and supply; theory of alternative market structures; introduction to markets for factors of production; inequality and poverty; the case for and against government intervention. Home department: ECONOMICS (MIL) 4L, 1T Е 144 12 Introduction to Macroeconomics and Monetary Economics Macro-economics issues: economic growth, unemployment and inflation; the open economy: macro-economic thought: the simple Keynesian analysis of national income. employment and inflation; fiscal policy; money and interest rates; monetary policy; Keynesian and monetarist controversies: the control of aggregate demand, aggregate supply, unemployment and inflation; supply-side economics; international trade, the balance of payments, exchange rates and international economic relationships; economic development. Home department: ECONOMICS (MIL) **Advanced Principles of** 5L, 1T Е 214 16 **Economics** Micro-economics: market failure; welfare economics; market for factors of production.

Micro-economics: market failure; welfare economics; market for factors of production Macro-economics: the four-sector model; the IS/LM model; the AD/AS model.

PP Economics	(Mil) 1	14, 144			
Home department: ECONOMICS (MIL)					
244	16	International Economics	5L, 1T	Е	
		ory of international trade, tariffs and subs			
		oreign exchange markets; the balance of p			
		international finance and the international	l monetary sys	stem;	
		nd the debts crisis.			
		ction to fiscal theory; the role of governm			
		tax structure theory; public finance in the	e micro-econor	nic	
,		adget and economic warfare.			
A		ONOMICS (MIL)	c t	-	
314	24	Applied Economics	5L	E	
		government in the labour market; wage the			
		etween supply and labour markets; theory			
African labour		rikes; theory of labour productivity and h	iman capital; S	South	
			aal thanahti aa	nitalian	
		thought: pre-classical thought; neo-classi and social democracy; mixed economy.	cai thought, ca	ipitalisili,	
		e functioning of the defence industry; eco	nomic warfare	· national	
		pects; labour economics from a defence pe		, national	
		ONOMICS (MIL)	ispective.		
344	24	Quantitative Economics	5L	Е	
Industrial econo	omics: t	he structure, conduct and performance of	the South Afric	can	
economy.		-			
		metric analysis: index formulation and ma			
		purchase-price equilibrium; international			
		n to statistics and overview of terminolog			
		ion of hypothesis testing; regression analy			
use of E-View software; data manipulation and interpretation; research methods and data					
collection.		1 · · · · · · · · · · · · · · · · · ·			
		noney and interest rates; monetary policy	Keynesian an	d	
monetarist diffe					
nome departme	ent: ECO	ONOMICS (MIL)			

56286 ENGLISH STUDIES (MIL)

114	12	Academic Writing and	3L, 2S	Ε
		Communication in English		

This semester module is presented to students in all programmes offered by the Faculty of Military Science. The purpose of this module is to provide you with the argumentation, critical thinking and general linguistic tools that will allow you to boldly challenge all statements and opinions, not least of all your own, for grammatical, factual and argumentative soundness. Students will investigate the daily act of good and fallacious reasoning through a diversity of contemporary texts.

Too often, bad use of grammar reflects badly on the user of the language and leads to unfair labelling of the speaker/writer as being uneducated. You will be guided in communicating successfully in any discipline by selecting and using language "carefully, purposefully, artfully and based on shared, logical understanding". Grammar makes communication possible, because "without the shared conventions of grammar, without the structure it creates and the patterns it plots, we could not speak to each other across

time and space"				
Continuous asso				
		OUSTRIAL PSYCHOLOGY (MIL)		
144	12	English Language, Literature	3L, 2S	Е
		and Culture in Context		
In this semester	course	there is a greater emphasis on critical rea	ding, apprecia	tion and
		, with special reference of English in a So		
variety of text, i	fiction a	and non-fiction (contemporary news articl	es, short stori	es, poetry,
		will be studied to explore concepts of cul		
		ational identity. Cultural bias in and through		
		e fact that "people in various positions of j		
		ower" will be critically analyzed, challen		
		principles of good language usage taught		
		ntroduced to the diverse ways South Afric		
		so. The focus on language and culture ale from South African Standard English. It a		
		egister that suits the tertiary academic env		
familiar military			nonment bey	
Continuous asso				
		 DUSTRIAL PSYCHOLOGY (MIL)		
*				
56324 FINAN	ICIAL	ACCOUNTING (MIL)		
114	12	Introduction to Financial	5L, 1P	Е
		Accounting		
		d spheres of accounting: the nature and fu		
		eory, financial position, financial result, t	he double-ent	ry system
and the account				
Collecting and i	nrocess	ing the accounting data of organisations.		
			· • • •	1 1
Accountability	for curr	ent and non-current assets: cash and cash		
Accountability other debtors, in	for curr	ent and non-current assets: cash and cash y, property, plant and equipment and othe	r non-current	assets.
Accountability other debtors, in Accountability	for curr	ent and non-current assets: cash and cash	r non-current	assets.
Accountability other debtors, in Accountability liabilities.	for curr iventor for curr	ent and non-current assets: cash and cash y, property, plant and equipment and othe ent and non-current liabilities: current liab	r non-current	assets.
Accountability other debtors, in Accountability liabilities. Accounting rep	for curr ventor for curr orting:	ent and non-current assets: cash and cash y, property, plant and equipment and othe ent and non-current liabilities: current lial financial statements of a sole trader.	r non-current bilities and no	assets.
Accountability other debtors, in Accountability liabilities. Accounting rep	for curr ventor for curr orting:	ent and non-current assets: cash and cash y, property, plant and equipment and othe ent and non-current liabilities: current liab financial statements of a sole trader. COUNTING (MIL) AND AUDITING (M	r non-current bilities and no	assets.
Accountability other debtors, in Accountability liabilities. Accounting rep Home departme 144	for curr nventor for curr orting: ent: AC 12	ent and non-current assets: cash and cash y, property, plant and equipment and othe ent and non-current liabilities: current lial financial statements of a sole trader.	r non-current bilities and no 11L) 5L, 1P	assets. n-current
Accountability other debtors, in Accountability liabilities. Accounting rep Home departme 144 Collecting and	for curr nventor for curr orting: ent: AC 12 process	ent and non-current assets: cash and cash y, property, plant and equipment and othe ent and non-current liabilities: current liab financial statements of a sole trader. COUNTING (MIL) AND AUDITING (M Advanced Financial Accounting	r non-current bilities and no <u>11L)</u> 5L, 1P rofit organisat	assets. n-current E ion, a close
Accountability other debtors, in Accountability liabilities. Accounting rep Home departme 144 Collecting and p corporation, a p profit organisat	for curr nventor for curr orting: ent: AC 12 process artnersl ion, a c	ent and non-current assets: cash and cash y, property, plant and equipment and othe ent and non-current liabilities: current liab financial statements of a sole trader. COUNTING (MIL) AND AUDITING (M Advanced Financial Accounting ing the accounting data unique to a non-p nip and a company. Preparing the financi lose corporation, a partnership and a comp	r non-current bilities and no <u>11L)</u> 5L, 1P rofit organisat al statements	assets. n-current E ion, a close
Accountability other debtors, in Accountability liabilities. Accounting rep Home departme 144 Collecting and p corporation, a p profit organisat Analysis and in	for curr nventor for curr orting: ent: AC 12 process artnersl ion, a c terpreta	ent and non-current assets: cash and cash y, property, plant and equipment and othe ent and non-current liabilities: current liab financial statements of a sole trader. <u>COUNTING (MIL) AND AUDITING (M</u> <u>Advanced Financial Accounting</u> ing the accounting data unique to a non-p nip and a company. Preparing the financi lose corporation, a partnership and a comp tion of financial statements.	r non-current bilities and no <u>11L)</u> 5L, 1P rofit organisat al statements	assets. n-current E ion, a close
Accountability other debtors, in Accountability liabilities. Accounting rep Home departme 144 Collecting and p corporation, a p profit organisat	for curr nventor for curr orting: ent: AC 12 process artnersl ion, a c terpreta	ent and non-current assets: cash and cash y, property, plant and equipment and othe ent and non-current liabilities: current liab financial statements of a sole trader. <u>COUNTING (MIL) AND AUDITING (M</u> <u>Advanced Financial Accounting</u> ing the accounting data unique to a non-p nip and a company. Preparing the financi lose corporation, a partnership and a comp tion of financial statements.	r non-current bilities and no <u>11L)</u> 5L, 1P rofit organisat al statements	assets. n-current E ion, a close
Accountability other debtors, in Accountability liabilities. Accounting rep Home department 144 Collecting and p corporation, a p profit organisat Analysis and in	for curr nventor for curr orting: ent: AC 12 process artnersl ion, a c terpreta ial accc	ent and non-current assets: cash and cash y, property, plant and equipment and othe ent and non-current liabilities: current liab financial statements of a sole trader. <u>COUNTING (MIL) AND AUDITING (M</u> <u>Advanced Financial Accounting</u> ing the accounting data unique to a non-p nip and a company. Preparing the financi lose corporation, a partnership and a comp tion of financial statements. punting.	r non-current bilities and no <u>11L)</u> 5L, 1P rofit organisat al statements	assets. n-current E ion, a close
Accountability other debtors, in Accountability liabilities. Accounting rep Home departmet 144 Collecting and p corporation, a p profit organisat Analysis and in Ethics in finance <i>P Financial Acc</i>	for curr nventor for curr orting: ent: AC 12 process artnersl ion, a c terpreta ial accc <i>countin</i>	ent and non-current assets: cash and cash y, property, plant and equipment and othe ent and non-current liabilities: current liab financial statements of a sole trader. <u>COUNTING (MIL) AND AUDITING (M</u> <u>Advanced Financial Accounting</u> ing the accounting data unique to a non-p nip and a company. Preparing the financi lose corporation, a partnership and a comp tion of financial statements. punting.	r non-current bilities and no <u>11L)</u> 5L, 1P rofit organisat al statements bany.	assets. n-current E ion, a close
Accountability other debtors, in Accountability liabilities. Accounting rep Home departme 144 Collecting and p corporation, a p profit organisat Analysis and in Ethics in finance <i>P Financial Acc</i>	for curr nventor for curr orting: ent: AC 12 process artnersl ion, a c terpreta ial accc <i>countin</i>	ent and non-current assets: cash and cash y, property, plant and equipment and othe ent and non-current liabilities: current liab financial statements of a sole trader. <u>COUNTING (MIL) AND AUDITING (M</u> <u>Advanced Financial Accounting</u> ing the accounting data unique to a non-p nip and a company. Preparing the financi lose corporation, a partnership and a comp tion of financial statements. punting. g (<i>Mil</i>) 114	r non-current bilities and no <u>11L)</u> 5L, 1P rofit organisat al statements bany.	assets. n-current E ion, a close
Accountability other debtors, in Accountability liabilities. Accounting rep Home departme 144 Collecting and p corporation, a p profit organisat Analysis and in Ethics in finance <i>P Financial Ac</i> Home departme	for curr nventor for curr orting: ent: AC 12 process artnersl ion, a c terpreta ial accc <i>countin</i> ent: AC	ent and non-current assets: cash and cash y, property, plant and equipment and othe ent and non-current liabilities: current liab financial statements of a sole trader. <u>COUNTING (MIL) AND AUDITING (M</u> <u>Advanced Financial Accounting</u> ing the accounting data unique to a non-p nip and a company. Preparing the financi lose corporation, a partnership and a comp tion of financial statements. punting. g (<i>Mil</i>) 114	r non-current bilities and no <u>11L)</u> 5L, 1P rofit organisat al statements bany.	assets. n-current E ion, a close

114	12	Introduction to Human and	5L	Е		
		Organisational Development				
Introduction: history of psychology; definitions, schools of thought and areas within						
industrial psychology. Physical dimension: central nervous system and brain, senses,						

		nemory, information processing, heredity		
		on: intellectual and volitional processes, e		
		th his environment. Theoretical perspective		
		numan reactions to stress, mental health p	roblems; ide	ntification,
		ment of psychopathological behaviour.		
Home departm	ent: INI	DUSTRIAL PSYCHOLOGY (MIL)		
124	12	Ergonomics	5L	Ε
Ergonomics: in	ntroduct	on to ergonomics. Approaches and mode	els in ergonor	nics. Basic
principles and	business	perspectives in ergonomics; the man-ma	achine interfa	ice;
		ion incorporating information processing		
		l ergonomics, human factors in systems,		
		, physical space and arrangements, and w		
		vision and lighting, climate factors and		
		ogy, noise and vibration, cumulative trau		
		on, human error and safety, inspection an		
		nomic approach to workplace programme		
		actical project and make presentations (pa		
		OUSTRIAL PSYCHOLOGY (MIL)		,
144	12	Career Psychology	5L	Е
		the area of study and key concepts; fund	amentals of a	areer
		g a career and the course of a career: the e		
		nent, career dynamics within a career dev		
		work; the psychological contract; career		
		hiddle career, pre-retirement and preparat		
		e, organisational entry; organisational ch		
		nilies; job loss. Industrial mental health:		
		lividual as well as organisational level.	promoting in	auourur
		OUSTRIAL PSYCHOLOGY (MIL)		
214	16	Military Psychology	5L, 1P	Е
	-	tary psychology. Personality theory and	war: the role	of
		ration of war, explained in terms of the p		
		y: a definition of maladjustment; the trans		
		ary training; the conflict between a milita		
		sychology: the psychological preparation		
		logical effects of combat on the soldier; c		
		ess; the identification of post-traumatic st		
		ng of trauma. Peacekeeping psychology:		
		their dependants during deployment on p		
the various stressors experienced by soldiers during the different phases of peacekeeping				
operations; the psychological effects of being held as a prisoner of war during				
peacekeeping operations. Psychological Warfare: the content focuses on the model for				
and ethical use of Psychological War Operation.				
Home department: INDUSTRIAL PSYCHOLOGY (MIL)				
244	16	Human Resources Management	4L, 1P	Е
Human resource	es mana	agement in perspective: introduction, role	and environ	ment of
		gement, an overview of human resources		
		ds, problem statement, the design of the r		
		surement of variables, analysis of data. H		
		ion practices: planning for human resour		
		standards for decision-making, conceptua		
		levance and contamination, objective crit		
-	57 -			5

criteria, the relationship among job performance criteria. Human resource management selection practices: assessing the quality of predictors, reliability and validity. psychological tests and inventories, ethical standards in testing, sources of information about testing, test content, interviews, assessment centre evaluations, work samples and situational exercises, biographical information, letters of recommendation, newer and controversial methods. Models of personnel decisions, recruitment, selection, placement and classification. Human resource management post-selection practices: the strategic value of training and development, assessing training needs, methods of training and development, management development issues, equal employment opportunity and training, evaluation of training programmes quality of work life, appraising job performance, sources of job performance appraisal, performance appraisal methods, rater training, self- and peer appraisals, feedback of appraisal information to employees, job evaluation, compensation, factors influencing compensation, employee benefits and services, motivation and compensation, Human resources (HR) planning; the need for HR planning, strategic business planning, the HR planning process, evaluation of the HR planning process. Factors that influence human resource management practices: safety and health, technology and international trends. People challenges in the new economy, managing a virtual workplace, implications of globalised markets, mergers and downsizing. Changes in the world population and demography.

Home department: INDUSTRIAL PSYCHOLOGY (MIL)

254		16	The Management of Cultural Diversity	4L, 1P	Е
G 1	1	1 1		1	1.1.1

Culture and psychology: introduction to cross-cultural psychology; culture and the self; culture and basic psychological processes; cultural perspectives of the developmental theories of Piaget, Kohlberg and Erikson; culture and behaviour in organisations; approaches to the classification and analysis of culture; cross-cultural issues; stereotypes, biases and prejudices; cross-cultural conflict; cross-cultural abnormal psychology; cross-cultural counselling; cross-cultural training; culture and communication; cross-cultural management and leadership. The management of diversity: introduction to diversity and concepts; diversity in South African society; diversity issues in the military; diversity initiatives in organisations; a model for the management of diversity in the South African National Defence Force; cross-cultural psychology in operations; co-operation with multinational forces; culture and deployment in foreign countries.

Home department: INDUSTRIAL PSYCHOLOGY (MIL)

314	24	Research Methodology and	5L, 1P	Е	
		Psychometrics			

Research methodology: introduction to research methods; introduction; using scientific methods in psychology. Introduction to psychometrics and its history.

The research process: definitions; formulating the research problem, setting up hypotheses, concepts, constructs, variables, levels of measurement; research design and strategy; significance, purpose and principles; design criteria.

Types of research: ex post facto, laboratory and field experiments, quasi-experimental designs, surveys. Control, reliability and validity testing.

Basic statistics: introduction to statistics in psychology. Basic statistical concepts; grouping and graphic representation of data; central tendency, variability, normal distribution, standard scores; correlation statistics, product correlation, rank correlation and regression; probability and the normal sampling distribution; testing of hypotheses, errors of decision; distribution: t-test, chi-square, F-test; using test statistics; non-parametric statistics.

Basic psychological testing: measurement theory, principles, validity and reliability; test construction and norms; scales of measurements, types of measurement procedures, and

criteria. Measuring aptitude, interest and personality; setting up a measurement programme and the procedure for its application; interpreting, systematising and describing the sets of measurements; ethical aspects of psychological measurement.					
		ision-making based on measurements.			
Home departme	ent: INL	DUSTRIAL PSYCHOLOGY (MIL)	r		
344	24	Organisational Psychology	5L, 4P	Е	
behaviour, natu Basic motivatio modification, co theories of lead control, process and developmen research; consu	Introduction and historical perspective, micro processes: differences in individual behaviour, nature and formation of groups, intergroup behaviour and group dynamics. Basic motivational processes: job motivation, theories of motivation, behaviour modification, coping with conflict. Power politics and organisation politics. Management: theories of leadership, management development, managerial decision-making and control, processes of communication. Macro processes: organisational design, structuring and development; organisational change and resistance to it. Organisation research: action research; consultant/client relations; contingency approach and expectations theory. The military organisation: the development of an "us/them" culture. Reactions to the military				
Home departme	ent: INI	DUSTRIAL PSYCHOLOGY (MIL)			

56960 INTERPRETATION OF STATUTES (MIL)				
214	16	Interpretation of Statutes	1L	Е
Basic introduction, hierarchy and structure of legislation, commencement and demise of legislation, re-enactment and amendment of legislation, traditional approaches towards interpretation of statutes, the presumptions, methods of interpretation and the impact of Constitutional interpretation on statutory interpretation. Home department: MERCANTILE LAW (MIL) AND CRIMINAL LAW (MIL)				
56979 MANAGEMENT ACCOUNTING (MIL)				
314	24	Management Accounting	5L, 1P	Е
Cost accounting	g funda	mentals: the accountant's role in the organ	isation; an int	roduction

to cost terms and purposes; cost-volume-profit analysis; costing systems; activity-based costing and management.

Cost allocation: general cost allocation; cost allocation: joint products and by-products; allocation of support department costs, common costs and revenues; process costing. Cost information for decisions and control: flexible budgets; standard costs; variances and management control; inventory costing and capacity analysis.

Cost information for decisions: determining how costs behave; decision making and relevant information; pricing decisions and cost management.

Home department: ACCOUNTING (MIL) AND AUDITING (MIL)

344	24	Management Accounting	5L, 1P	Е	
Tools for planning and control: income effects of alternative inventory costing methods,					
the master hude	oet resr	onsibility accounting and relevance cost	and the decisio	n process	

the master budget, responsibility accounting and relevance, cost and the decision process Cost information for decisions: determining how costs behave; decision making and relevant information; pricing decisions and cost management; strategy, balanced scorecard and strategic profitability analysis.

Quantitative decision making: quantitative methods and the decision-making process, regression analysis and learning curves.

Quality and just-in-time: quality, time, and theory of constraints; inventory management, just-in-time, and backflush costing; spoilage, reprocessing and scrap.

Investment decisions and management control systems: capital budgeting and cost

analysis; management control systems, transfer pricing, and multinational considerations; performance measurements, compensation, and multinational considerations.

P Management Accounting (Mil) 314

Home department: ACCOUNTING (MIL) AND AUDITING (MIL)

21563 MATE	IEMA	TICS (MIL)		
112	6	Calculus I	3L, 1T	Е
		erentiation; definite and indefinite integra	tion.	
Home departme	ent: MA	THEMATICS (MIL)		-
122	6	Linear Algebra I	3L, 1T	Ε
		and planes; circles and spheres; transform	ation of coord	dinates;
solving of syste				
		THEMATICS (MIL)	(T. 875	
124	12	Service Course in Mathematics products; factorisation; simplifying algeb	6L, 2T	E
Vectors. Limits functions; tange derivative of ex derivatives; par Newton-Raphso integration; def introductory ma scalar multiplic equations. Line simplex tableau Home departmo	and de ent lines ponenti tial deri on algori nite int ation; d ar prog ; simplent: MA	THEMATICS (MIL)	limits; contin ules; rates of o ns; higher ord hisation proble s: basic rules ications. Mati anspose of a ng systems of ogramming p	uous change; er ems; of rix algebra: matrix; linear roblems;
142	6	Calculus II	3L, 1T	Е
		ntiation; techniques of integration; application	ations of the c	lefinite
integral; numer	ical inte	gration, partial differentiation.		
P Mathematics	(Mil) I	12		
Home departme	ent: MA	THEMATICS (MIL)		
152	6	Linear Algebra II	3L, 1T	Е
Complex numb	ers; det	erminants; real vector spaces; conic section	ons.	
P Mathematics	(Mil) 1	22		
		THEMATICS (MIL)		
212	10	Analysis I	3L, 1T	Е
theorem; Stokes differential equi PP Mathematic	s' theor ations. es (Mil)			
		THEMATICS (MIL)	21 17	F
222	10	Linear Algebra I	3L, 1T	Е
Real vector spa	ces; lin	ear transformations and matrix representa	uons.	
PP Mathematic	. ,	122, 152 THEMATICS (MIL)		

242	10	Analysis II	3L, 1T	Е	
	- •	ces; convergence or divergence of series;	,		
series; Taylor a			anomating se	nes, power	
C Mathematics	s (Mil) 2	212			
PP Mathemati					
Home departme	Home department: MATHEMATICS (MIL)				
252	10	Linear Algebra II	3L, 1T	Е	
Introduction to	linear p	programming and network analysis; eigenv	values and eige	envectors.	
C Mathematics	s (Mil) 2	222			
PP Mathemati	cs (Mil)	122, 152			
· · ·	ent: MA	THEMATICS (MIL)		1	
312	12	Introductory Topology	3L, 1T	Ε	
		spaces; basic concepts; sequences; contin	uous mapping	s; uniform	
		aces and sets; connected spaces and sets.			
C Mathematics	()				
		212, 222, 242, 252			
· ·	1	THEMATICS (MIL)	21 17	Б	
322	12	Complex Analyses	3L, 1T	E	
		complex functions; conformal mappings; tion of singularities; residues; application			
C Mathematics		e	s of contour in	legiunon.	
		212, 222, 242, 252			
	. ,	THEMATICS (MIL)			
342	12	Numerical Analyses	3L, 1T	Е	
- · -		aries; interpolation and polynomial approx	· · ·		
		gration; initial value problems for ordinar			
		ing linear systems; iterative techniques in		a;	
numerical solut	tion of p	partial differential equations; Fourier analy	/ses.		
C Mathematics	. ,				
<i>PP Mathematics (Mil)</i> 212, 222, 242, 252					
Home department: MATHEMATICS (MIL)					
352	12	Non-linear Programming	3L, 1T	E	
Classical optimisation techniques; convex sets and convex functions; one-dimensional minimisation methods; multivariable unconstrained optimisation techniques; constrained optimisation.					
C Mathematics (Mil) 312, 322 PP Mathematics (Mil) 212, 222, 242, 252					
Home department: MATHEMATICS (MIL)					

63606 MERCANTILE AND PUBLIC LAW					
24416Applied Commercial Law5LE					
Specific contracts: contracts of sale, contracts of lease, credit agreements, agency, vicarious liability. Entrepreneurial law: companies, close corporations, partnerships, business trusts.					
C Contract Law (Mil) 214					

C Contract Law (Mil) 214

		Winitary Selence		
TT 1 /			、 、	
		RCANTILE AND PUBLIC LAW (MIL	,	-
314	24	Applied Labour Law	5L	Е
dismissals, the o dismissals, dism employment eq Collective Labo organisational r forums, dispute	concept nissal fo uity, dis our Law ights, c resolut	r: introduction, discipline in the workplace s employee, dismissal and unfair dismiss or misconduct, dismissal for incapacity, us spute resolution. r: introduction, labour relations act, freed ollective bargaining, statutory bargaining ion. RCANTILE AND PUBLIC LAW (MIL	sal, automatic u unfair labour p lom of associat g forums, work	infair ractices, ion,
12478 MILIT	ARY	ETHICS		
114	8	Military Ethics	5L	Е
ethics in militar and how to appl	y comn ly it as a	l humanitarian law. The student will lear nand, be empowered with a dynamic mo a commander. DUSTRIAL PSYCHOLOGY (MIL)		
22969 MILIT	ARY	GEOGRAPHY		
114	12	Concepts and Techniques in Geography	4L, 3P	Е
environment; po behaviour; polit urban geograph cartometry (maj photography an representation); assisted mappin Home departme	opulation ical geo y; the r o scale, d remote data cl ag and a ent: MII	four main traditions of geography; the ir on geography; cultural geography; the geo ography, economic geography; the geogr egional concept; the historical developm map projections); data acquisition (topo te sensing); map communication (layout assification (statistical, thematic and qua mimated cartography. LITARY GEOGRAPHY	ography of spa aphy of natura ent of cartogra graphic survey , design, map s intitative); com	tial l resources; phy; ing, aerial ymbols and puter
144	12	The Physical Environment	4L, 3P	E
atmospheric pre- moisture; the hy climatological c the earth; endog processes (weat topography, wa coastal processe representation a interpretation of Continuous Ass	essure a vdrosph lata; syn genesis hering v ter and 1 es and 1 nd conv f the ph essmen	s of the earth; atmosphere of the earth; in nd winds; atmospheric flows and disturb tere; the South African weather and clim noptic weather charts and climogrammes of continental, sub-continental and regio and mass wasting, fluvial processes, gro wind in arid regions); ocean processes (t andforms); the South African geomorphe tour interpretation; stream orders; profile ysical environment. It LITARY GEOGRAPHY	ances; atmosp ate; interpretati a. The internal nal scale; exog und water and ides, waves, se blogical landsc	heric ion of structure of enetic karst a currents, ape; terrain

214	20	Military Conduct and the	4L, 3P	Е	
		Environment			
Introduction to environmental theory; the environment as a system; South African					
		overview; environmental resources and co			
		ed environmental problems; military action			
		ment in the military context - internationa			
		ues (sampling techniques, questionnaires,			
		etation; the procedure for environmental in	npact assessme	ent.	
Continuous Ass					
•		LITARY GEOGRAPHY	n	I	
244	20	The Geography of Sub-Saharan	4L, 3P	Е	
		Africa			
The following i	ssues re	egarding the sub-Saharan African region v	vill be studied:	the	
physical landsc	ape; po	pulation geography; the human impact on	the environme	ent;	
		culture, conflict and change; developmen			
		ban geography; agricultural development;	natural resource	ces.	
		riting about the region.			
Home departme	ent: MII	LITARY GEOGRAPHY			
314	24	Geographical Information	4L, 3P	Е	
		Systems			
		information systems (GIS); fundamental			
		aphic information technology in the comm			
		y community; the capturing, storing, retri-	eval, manipulat	tion,	
		g of digital geographic data.			
A	ent: MII	LITARY GEOGRAPHY		r	
344	24	Remote Sensing	4L, 3P	E	
		y and remote sensing; sensors and platform			
correction; geometric aspects; image enhancement and visualisation; visual image					
interpretation; digital classification.					
Home departme	ent: MII	LITARY GEOGRAPHY			
15377 MILITARY HISTORY					
114	12	General Military History to 1914	5L, 1T	Е	
Introduction to	the star		and for sting	. f : 1: t	

Introduction to the study of military history: the nature, approach and function of military history, basic concepts in military history; warfare in antiquity; medieval warfare; warfare in the early modern era; limited warfare in the eighteenth century; Napoleonic warfare wars of the Industrial Revolution: the American Civil War, Austro-Prussian War, Franco-Prussian War, Anglo-Boer War and the Russo-Japanese War; introduction to war and technology in the twentieth century.

Home department: MILITARY HISTORY

144	12	The Military History of Africa to 1945	5L, 1T	Е

Introduction to the history of Africa: African historiography; warfare in sub-Sahara Africa since the earliest times; state formation and empires; Islam; trade and slavery; internecine warfare; resistance to colonial conquest; wars of colonial competition; introduction to national liberation, independence and internal conflict in Africa.

P Military History 114

Home department: MILITARY HISTORY

	16		CI 177	T.
214	16	South African Military History to the 21st Century	5L, 1T	E
South African military historiography; early South African military history c. 1200 – 1652; intergroup conflict at the Cape, 1652 – 1795; the British Conquest of the Cape; the Difaqane/Mfecane, 1815 – 1834; conflicts between the Voortrekkers, Matabeles and Zulus, 1836 – 1845; military power and the establishment of white hegemony during the second half of the 19th century; the First Anglo-Boer War, 1880 – 1881; the Second Anglo-Boer War, 1899 – 1902; the establishment and history of the Union Defence Force, 1912 – 1957; South African defence policy and imperial defence; the crisis year 1922; the rise of black resistance in the twentieth century; the South African Defence Force, 1957 – 1994; the South African National Defence Force: integration and transformation since 1994.				
P Military Hist	ory 114	l, 144		
Home departme	ent: MII	LITARY HISTORY		
244	16	The First and Second World	5L, 1T	Ε
		Wars, 1914 – 1945 on systems and doctrines on the eve of th		
First World War, 1914 – 1918; South Africa's participation in the First World War, 1914 – 1918; the causes of the Second World War; military developments, 1919 – 1939; the opposing forces in 1939; the Axis conquest of Central and Western Europe, 1939 – 1941; operations in the Mediterranean and North Africa, 1940 – 1943; the German campaigns in Russia, 1941 – 1942; total war against the Axis forces, 1942 – 1945; the war in the Pacific, 1941 – 1945; the revolution in military technology, 1942 – 1945; South Africa's participation in the Second World War; war and society in the era of total war; military historiography to 1945; the social and historiographic impact of the Second World War. <i>P Military History 214</i>				
314	24	LITARY HISTORY Contemporary Warfare	5L, 1T	Е
The Cold War; the Korean War, 1950 – 1953; the Vietnam War, 1965 – 1975; the Arab- Israeli Conflict, 1948 – 1982; the Indo-Pakistani War, 1965 – 1971; the Iran-Iraq War (1st Gulf War), 1980 – 1988; the Falkland War, 1982; the 2nd Gulf War, 1991; the 3rd Gulf War, 2003; the influence of technology on conventional warfare since 1945; the post-Cold War era; peacekeeping operations; trends in contemporary military historiography.				
<i>P Military History 244</i> Home department: MILITARY HISTORY				
344	24	Low-Intensity Conflict in Africa since 1945	5L, 1T	Е
Theoretical background of revolutionary war/internal conflict/low-intensity conflict, with particular reference to the revolutions in Russia, China and Cuba; trends in global terrorism; low-intensity conflict and revolution in Algeria, 1830 – 1962; insurgency, counterinsurgency and civil war in Angola, 1961 – 2001; insurgency, counterinsurgency and civil war in Mozambique, 1964 – 1991; the internal war in Rhodesia, 1972 – 1980; the internal conflict in South Africa, 1976 – 1994; South African counterinsurgency operations in South West Africa/Namibia and Angola, 1966 – 1989; the low-intensity conflict in the Democratic Republic of the Congo, 1960 – 2002; the SANDF, peace-support operations and military intervention in Africa, 1998 – 2002; military history and military professionalism.				

P Military History 314

1 111111111 11150	<i>,</i>			
Home departme	ent: MII	LITARY HISTORY		
12479 MILIT	ARY	LEADERSHIP		
144	8	Military Leadership	3L, 2P	Е
The module will	l empo	wer students with knowledge on ethical, p	participative ar	nd
autocratic leade	rship, t	he role of military ethics to be a command	ler, the dark si	de of
obedience, and	how to	apply military ethics in different scenario	s in the militar	y – with
its links to the c	ode of	conduct of the SANDF and the Constituti	on of South A	frica.
P Military Ethi	cs 114			
Home departme	ent: INI	DUSTRIAL PSYCHOLOGY (MIL)		
50210 MILIT	ARY	MANAGEMENT		
114	12	Introduction to Organisation	5L	Е
		and Resource Management		
This module wi	ll focus	on the role of managers in the public sec	tor by providin	ng an
overview of the	manag	ement of the different functions within an	organisation.	Attention
will be focused	on the	unique nature of the public sector; the eth	ical foundation	ns for
		the environment in which the public sector	or manager op	erates as
		t functions of the public sector manager.		
Home departme	ent: MII	LITARY MANAGEMENT	-	
144	12	General Management	5L	Е
An overview; th	ne mana	agement environment; management of div	ersity; plannir	ng skills;
		ng; strategic and operational planning pro		
		ion; management of change; leadership sl		
		onflict and stress; control skills; control o	f human resou	rces;
financial contro				
		LITARY MANAGEMENT		-
214	16	Logistics Management	5L	E
		the economy and organisation; customer		
		iventory management; managing material		
		handling and packaging; purchasing; glo		organising
		methods to control logistics performance;	supply-chain	
		ntation of logistics strategy.		
		LITARY MANAGEMENT	5L	Б
244	16	Financial Management	•	E
		ncial management with reference to the a		
		rm financial planning. The valuation of ca		
planning and m		capital budgeting and budget control, sho	it-term imanc	lai
		LITARY MANAGEMENT		
1			5L	Б
314	<u>24</u>	Project Management		E
		oncepts, needs identification, proposed so		
		ects are addressed as part of the project li types of project organisations and projec		
		lysed as part of the personnel management studied as part of planning, scheduling, s		
		s and cost planning and performance.	cheduning con	u01,
resource consid	ciation	s and cost praining and performance.		

Home department: MILITARY MANAGEMENT						
344	24	Strategic Management		5L		Е
0			(0	1	C	

Overview of strategic management: formulation of strategy (formulation of a vision/ mission, external and internal analysis, determining long-term objectives, development of corporate and business strategies, strategic analysis and choice), strategy implementation (operationalisation and institutionalisation of a strategy) and strategic control. Home department: MILITARY MANAGEMENT

30815 MILITARY PROFESSIONAL DEVELOPMENT						
178	17812Military professional1LE					
		development				
Civic education, Convention of Service Writing (CSW), military history, musketry,						
regimental aspects, profession of arms.						
Home dans	netwo ant. MI	I ITADV MANACEMENT				

Home department: MILITARY MANAGEMENT

Mechanics

13048 PHYSICS (MIL)

12

114

Motion along a straight line; vector algebra; motion in two and three dimensions; force and motion; work and kinetic energy; law of conservation of energy; systems of particles; collisions; rotation; rolling and sliding; torque; angular momentum; equilibrium; density and pressure; fluids in motion; oscillations; waves.

5L. 4P

Е

Practical experiments and reports to support and supplement the theoretical work will be continuously assessed.

C Mathematics (Mil) 112, 122

Home department: PHYSICS (MIL)

124	12	Introduction to Motion, Waves	5L, 3P	Е
		and Optics		

Kinematics in one dimension; kinematics in two dimensions; forces and Newton's laws of motion; dynamics of uniform circular motion; work and energy; impulse and momentum; rotational kinematics; rotational dynamics; elasticity and simple harmonic motion; pressure; fluids in motion; electromagnetic waves; mirrors, lenses and optical instruments; interference and the wave nature of light.

Practical experiments and reports to support and supplement the theoretical work will be continuously assessed.

C Mathematics (Mil) 124

Home department: PHYSICS (MIL)

144	12	Electricity and	5L, 4P	Е
		Thermodynamics		
T1 · 1	1		•.	. 1

Electric charge; electric fields; Gauss's law; electric potential; capacitance; current and resistance; basic circuits; electric currents and magnetic fields; inductance; electromagnetic oscillations and alternating current; temperature; heat; laws of thermodynamics; kinetic theory of gases; electromagnetic waves; images; interference; diffraction.

Practical experiments and reports to support and supplement the theoretical work will be continuously assessed.

C Mathematics (Mil) 142, 152 P Physics (Mil) 114

Home departme	ent [.] PH	YSICS (MIL)		
154	12	Principles of Electromagnetism	5L, 3P	Е
154	14	and Thermodynamics	012, 01	-
basic electric ci current circuits; engines; refrige phenomena.	rcuits; 1 ; temper rators; v ments a	ctric fields; electric potential energy and the magnetic forces and fields; electromagnetic rature and heat; transfer of heat; laws of the waves and sound; principle of linear super- and reports to support and supplement the	ic induction; a hermodynamic rposition; inter	lternating s; heat ference
C Mathematics		224		
Home departme	. ,			
212	10	Applied Wave Theory	3L, 2P	Е
Basic wave con	cepts; v	vave equation; superposition and interfere	ence; lenses an	
lasers; stealth. Practical experi continuously as	ments a sessed.	undary; transmission spectra; aberration; and reports to support and supplement the		
PP Physics (M				
Home departme			21 2D	Б
222	10	Alternating Current Theory ce; transient and steady state currents in Li	2L, 2P	E
PP Physics (M PP Mathematic	sessed. il) 144	and reports to support and supplement the	e theoretical w	ork will be
Home departme	ent: PH	YSICS (MIL)		
242	10	Modern Physics	2L, 2P	Е
Simple atomic models; wave properties of particles; wave/particle duality; Heisenberg's uncertainty principle; special relativity; Schrödinger's equation; particle in a box; harmonic oscillator; eigenfunctions and eigenvalues; time dependence; barrier penetration. Basic statistical physics; black-body radiation; rate equations; population inversions; principals of lasers. Practical experiments and reports to support and supplement the theoretical work will be continuously assessed.				
PP Physics (Mil) 144, 212 PP Mathematics (Mil) 212 Home department: PHYSICS (MIL)				
252	10	Electromagnetism	2L, 2P	Е
Electrical curre Ampère's law; law; Electrodyn gradient, diverg divergence and electromagnetic	nt and r Diverge amics a gence ar rotation waves	nagnetic field; materials in magnetic field ence and Curl of Electrostatic fields; Stead and Relativity; Laws of electricity and ma ad rotation of fields; fundamental theorem and their physical implications; Maxwel	s; Biot-Savart dy Currents; Fa gnetism in inte s of integratio l's equations;	's law; araday's egral form; n,
- Lucticul experi		52		

		1
continuously assessed.		
PP Physics (Mil) 222		
PP Mathematics (Mil) 212		
Home department: PHYSICS (MIL)	1	
31212Nuclear Physics	3L, 2P	E
Nuclear structure; nuclear models; radioactive decay; a-decay; b		
nuclear reactions; detection; accelerators; elementary particles; i		
Practical experiments and reports to support and supplement th continuously assessed.	e theoretical w	ork will be
PP Physics (Mil) 242		
Home department: PHYSICS (MIL) 322 12 Electronics I	2L, 2P	Е
322 12 Electronics I Measuring instrument; semiconductor theory; diodes; bipolar ju		
effect transistors; other electronic components; transistor amplif		
amplifiers; feedback and stability; z and h parameters.	iers, operation	*1
Practical experiments and reports to support and supplement th	e theoretical w	ork will be
continuously assessed.		
PP Physics (Mil) 222		
Home department: PHYSICS (MIL)		
332 12 Electronics II	2L, 2P	Е
Oscillator circuits; modulation; coding; microwave components		ines;
antennas; AD converters; logic; noise; signal processing comput		
Practical experiments and reports to support and supplement the	theoretical wo	rk will be
continuously assessed.		
C Physics (Mil) 322		
PP Physics (Mil) 222		
Home department: PHYSICS (MIL)	21.20	Б
342 12 Statistical Physics	3L, 2P	E
First law of thermodynamics; second law of thermodynamics; the thermodynamics; paramagnetism; simple systems; phase equilib		26.
quantum gas; black-body radiation; FD and BE statistics.	fila, classical g	us,
Practical experiments and reports to support and supplement th	e theoretical w	ork will be
continuously assessed.		
PP Physics (Mil) 242		
Home department: PHYSICS (MIL)		
352 12 Solid State Physics	3L, 2P	Е
Crystal structure; Crystal lattice geometry; binding forces in cry		
Defects in crystals; the influence of defects; point defects; vacar		
dislocations; kinetic theory of gases; equipartition of energy; Bo		
distribution of speeds; mean free path; Statistical mechanics; Bo Planck distribution; Phonos in crystals; one-dimensional chain;		
specific heat; Electrons in metals; electronic structure of atoms;		
free electron theory; Fermi-Dirac statistics; electrical conductivi		
motion in magnetic fields; energy bands; electrons in semicondu		
semiconductors; doped semiconductors; mobility and the Hall e	ffect; p-n junct	ions.
Practical experiments and reports to support and supplements the	e theoretical w	ork will be
continuously assessed.		

PP Physics (Mil) 212, 222			
Home department: PHYSICS (MIL)			
362 12 Radar		3L, 2P	Е
Radar fundamentals: range; Doppler; coh	erence; radar; jamming	effects; losses	. CW
radar: CW equation; FM; linear FM; mult			
Radar detection: noise; probability of dete		lse-alarm; coh	erent and
non-coherent pulse integration; detection		CIT I	1 1 1
Radar waveforms: low and band-pass sign		nents; CW and	l pulsed;
linear FM; high resolution; stepped freque Pulse compression: analogue; digital.	ency.		
Radar wave propagation: earth atmospher	e refraction reflection	· nattern propa	gation
factor; diffraction; AREPS.	•, ••••••••••••	, pattern prope	Burron
Clutter and MTI: single and dual line can	ellars.		
Radar antennas: directivity; power; gain;	circular dish; array ante	ennas; convent	ional
beam forming.			
Target tracking: single target track; multip			
Signal processing: Fourier transform and Z transform.	series; convolution and	correlation;	
PP Physics (Mil) 322, 332			
Home department: PHYSICS (MIL)		AL 175	-
38212Electronic com		3L, 1T	Е
Digital communication systems. Data com	imunications systems.	Microwave ra	d10
communications systems. Satellite communications systems: Kepler	'e lawe. Clark orbite, li	mits of visibili	tv
satellite radio navigation and Navstar GPS			ty,
Optical fibre communications systems: li		wer, optical so	urces and
link budget.			
Cellular and PCS telephone systems: trell			endations,
PCM line speed, extended super format, v	vavelength division mu	ltiplexing.	
PP Physics (Mil) 322, 332			
Home department: PHYSICS (MIL)			
46663 MILITARY STRATEGY			
214 16 Study of Strate	oric Thought and	6L	Е

40003 MILLI		SIKAILUI		
214	16	Study of Strategic Thought and	6L	Е
		Concepts		
Battlefield to se	ecurity;	modern and post-modern concepts in the	formulation an	d
execution of str	ategy; j	political guidance and civilian control ove	r the formulati	on and
		the theory of strategy and modern problem bught, the execution of military strategy of		
war.				
Home departme	ent: MI	LITARY STRATEGY		
244	16	Introduction to African Security	6L	Е

Theoretical approaches to security co-operation: the concept of security, typology of security, security regimes, security communities, collective security. Studies in African security co-operation: Southern African security co-operation, West African security co-operation, peace and security architecture of the African Union. African security and the changed global agenda: economic development and the prospect for economic security in Africa, democracy and security in Africa, the environment and African security,

ethnicity, ethnic conflict and security in Africa. National security policy of South Africa.Home department: MILITARY STRATEGY31424Contemporary Thought on
Low-intensity Conflict6L

The internal conflict spectrum.

The aetiology of internal conflict.

Insurgency: types and strategy.

Civil war: the African dimension.

Civil violence: popular and external support.

Political terrorism; peace support operations.

Organisational profiles: militant movements and government forces.

Home department: MILITARY STRATEGY

344	24	Conventional Schools of	6L	Е
		Thought and Future Warfare		

Introduction: impact of technology on conventional warfare; the philosophy of conventional warfare; the continental school of thought; the aerospace school of thought; the maritime school of thought; South African doctrine on conventional warfare; conventional warfare and the revolution in military affairs. Home department: MILITARY STRATEGY

46698 MILITARY TECHNOLOGY21210Strength of Materials

21210Strength of Materials3L, 2TEStatics: forces, moments and couples; equilibrium of forces; free-body diagrams; pulleys;
forces in frames; method of sections, loads and structural members; forces in space;
centriods of areas and moments of inertia. Stresses and strains: stress and strain
relationships; direct stress relationship; Hooke's law; stress concentrations; temperature
stresses. Rivets and welding joints: rivet joints; stresses in and yielding of riveted joints;
stresses in thin-walled cylinders under high pressure; types of welding joints; strength
and design of welding joints. Normal and shear stresses: torque; torque equation; angular
displacement; power on axles; ending moments and shear stresses in straight beams;
yielding of beams; compound tresses; Mohr's circle; elastic stability of columns; Euler's
equations and relevant restrictions.

P Mathematics (Mil) 142, 152

Home department: MILITARY TECHNOLOGY

222	10	Fluid Mechanics	3L, 2T	Е
Γ. 1		1.6.11	1.4	1. 1 1

Fundamental concepts: definition of fluid; viscosity, compressibility; ideal fluid; ideal gas.

Statics: pressure distribution; pressure measurement; forces on submerged bodies; buoyancy and stability of submerged floating bodies. Dynamics: Euler and Lagrange descriptions; continuity, momentum, and energy equations derived for a control volume. Dimensional analysis: geometric, kinematics and dynamic similitude; Raleigh method; Buckingham Pi-theorem.

P Mathematics (Mil) 112, 122, 142, 152

Home department: MILITARY TECHNOLOGY

242	10	Fluid Mechanics	3L, 1T	Е
Fluid in closed	conduit	s: laminar and turbulent flow; effect of vis	scosity; equation	on of
motion; friction	factors	and pipe roughness; minor losses; pumps	and piping sy	stems.

Flow over immersed bodies: introduction to boundary layer theory; drag on various two-

dimensional and three-dimensional bodies; introduction to lift on airfoils. Navier-Stokes equations: equations of motion; applications to laminar flow; introduction to turbulent flow. Propellers: propellers and propulsion; Froude's momentum theory of propulsion; blade element theory; momentum theory applied to helicopter rotor.

P Military Technology 222 P Mathematics (Mil) 112, 122, 142, 152

Home department: MILITARY TECHNOLOGY

Home department: MILITARY TECHNOLOGY				
252	10	Numerical Techniques	3L, 2T	Ε
		on and truncation of numbers: number rep		
		error propagation. Simultaneous linear equ		
		erse; determinants; matrix conditioning. I		
		ials; polynomial interpolation; Lagrange		
		ifferentiation and integration: interpolator		
		e; compound quadrature formulas; Gauss		
		nd error control; adaptive quadrature. Non		
		section method; secant method; Newton's		
		olynomial roots. Function approximation a		
		; stabilisation of least-squares methods; F		
		elementary methods; Runge-Kutta method		
		al equations; two-point boundary value pr	oblems; adapti	ve step-
size; error contr	rol.			
P Computer In	f. Svster	ns (Mil) 114		
		12, 122, 142, 152		
Home departme	ent: MI	LITARY TECHNOLOGY		
254	16	Information Warfare	5L, 1T	Е
	-	es; players; offensive IW; defensive IW.	- 2	
		play; crime; rights of the individual; natio	onal security	
		urces; psy-ops and perception manageme		enal
		break-ins and hacking; masquerade; cybe		8
		codes and hideaways; fake recognition; m		tekeepers.
		ity awareness; risk management; incident		
		encryption policy.	0.1	e
		LITARY TECHNOLOGY		
312	12	Aerodynamics	3L, 2T	Е
Fluid mechanic	s: conti	nuity, momentum and energy equation in	differential for	rm for
		otential flow: definitions of velocity potential		n function;
		nd sink in terms of stream function; Biot-		
		around a Rankine oval and rotating cylind		
		w. Two-dimensional aerofoil theory: deve		
		erofoil theory: Helmholtz's vortex theore		
		l properties for finite series distributions;		
		ortex; formation flying effects, ground eff		
		n to computational fluid mechanics; Navi		
		ence formulations; numerical solution of I		
elementary flow	vs. Drag	g: definition of drag components; boundar	y layer theory.	
P Military Tech	hnology	242, 252		
Home departme	ent: MI	LITARY TECHNOLOGY		
322	12	Gas Dynamics	3L, 2T	Е
F1 1		· · · · · · · · · · · · · · · · · · ·		

Fluid mechanics: continuity, momentum and energy equations in differential form for

compressible flow; isentropic flow; propagation of small disturbances; stagnation conditions; steady one-dimensional flow of an ideal gas with changing area; Da Laval nozzles; propulsion nozzles. Shock waves: normal and oblique shock waves in ideal gases. Expansion waves: expansion waves in ideal gases. Aerofoils in compressible flow: qualitative discussion on the Prandtl-Glauert corrections and Ackert's theory. Finite wings in supersonic flow: qualitative discussion on the flow model and solution procedures. Transonic and hypersonic flow: qualitative aspects of transonic and hypersonic flow.

P Military Technology 242, 252

Home department: MILITARY TECHNOLOGY

342	12	Aircraft Mechanics: Performance Analysis	3L, 2T	Е
Aircraft propule	ion Fr	oude's momentum theory applied to a pro	nallar: blada a	amont

Aircraft propulsion: Froude's momentum theory applied to a propeller; blade element theory; characteristics of propulsion configurations. Aircraft performance: aircraft performance in steady and accelerating flight, including gliding flight, climbing flight, take-off, landing and horizontal turning flight; determination of speeds for minimum drag and minimum power; optimisation of flight profiles for range and endurance; influence of adverse atmospheric conditions on aircraft performance.

P Military Technology 312

Home department: MILITARY TECHNOLOGY

344	24	Electronic Warfare	3L, 1T	Е

Mathematics and physics: logarithms; exponents; decibel; electromagnetic principles. Electronic warfare (EW): introduction; glossary of terms; EW background and structures; objectives; EW analysis and vulnerability; receiver antenna resonance; antenna parameters and characteristics; the ideal receiver; receiver parameters; receiver noise; types of EW receivers; EW processing.

Radar: basic radar; the radar equation; radar countermeasures; chaff.

Infrared: the IR spectrum and guidance principles; IR countermeasures; IR countercountermeasures.

COMINT: introduction to communication systems; advanced communication systems. Home department: MILITARY TECHNOLOGY

352	12	Aircraft mechanics: Stability	3L, 2T	Е
		and control		

Static stability and control of aircraft: co-ordinate system; stick-fixed and stick-free static longitudinal stability; longitudinal control; manoeuvring; stick-fixed and stick-free lateral and directional stability; directional control; lateral control. Dynamic stability and control of aircraft: general equations of motion; linearisation of equations; analytical and numerical solution of equations; characteristic motions; handling quality; coupling effects.

P Military Technology 312

Home department: MILITARY TECHNOLOGY

33057 NAUT	ICAL	SCIENCE		
114	12	General Navigation	6L, 4P	Е
Coastal and dee	ep-sea n	avigation; astro-navigation.		
Home departme	ent: NA	UTICAL SCIENCE (MIL)		
144	12	Navigational Theory	6L, 2P	Е
Elements of oce	eanogra	phy; chart projections and chart construct	ion; spherica	1

	1	· · · · · · · · · · · · · · · · · · ·		
		nic sailing methods.		
•		UTICAL SCIENCE (MIL)		
214	20	Navigational Systems	6L, 4P	Ε
		avigation systems; magnetism; compasses	; INS; GME	DSS.
Home departme	ent: NA	UTICAL SCIENCE (MIL)		
244	20	Introduction to Marine	6L, 4P	Е
		Engineering Principles		
Propulsion syst	ems and	l power output; ship services and auxiliar	ies; control s	systems;
stabilisers; subr	marine s	systems; combat and explosive damage.	-	
		UTICAL SCIENCE (MIL)		
314	24	Ship Stability	6L, 4P	Е
General ship sta	ability;	transverse static stability; introductory dy	namical stab	ility;
introductory sul				
		UTICAL SCIENCE (MIL)		
344	24	Introduction to Naval	6L, 4P	Е
-		Architecture	-	
General ship kr	owledg	e; conventional hull forms; tonnages and	1 0	
		e conventional null forms formages and	draffs' resist	ance.
hydrodynamic s	support	ed vessels; hydrofoils; air cushion vessels		
hydrodynamic s steering devices	support s.	ed vessels; hydrofoils; air cushion vessels		
hydrodynamic s steering devices	support s.			
hydrodynamic s steering devices Home departme	support s. ent: NA	ed vessels; hydrofoils; air cushion vessels UTICAL SCIENCE (MIL)		
hydrodynamic s steering devices Home departme 48283 POLIT	support s. ent: NA	ed vessels; hydrofoils; air cushion vessels UTICAL SCIENCE (MIL) SCIENCE (MIL.)	; propulsion	devices;
hydrodynamic s steering devices Home departme 48283 POLIT 114	support s. ent: NA	ed vessels; hydrofoils; air cushion vessels UTICAL SCIENCE (MIL) SCIENCE (MIL.) Introduction to Politics	; propulsion 6L	devices;
hydrodynamic s steering devices Home departme 48283 POLIT 114 The nature and	support s. ent: NA FICAL 12 study o	ed vessels; hydrofoils; air cushion vessels UTICAL SCIENCE (MIL) SCIENCE (MIL.) Introduction to Politics f politics; the classification of governmen	; propulsion 6L ts and politic	devices;
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hydrodynamic s steering devices Home departme 48283 POLIT 114 The nature and political ideolog the state; the ma	support s. ent: NA FICAL 12 study o gies; mo ass med	ed vessels; hydrofoils; air cushion vessels UTICAL SCIENCE (MIL) SCIENCE (MIL.) Introduction to Politics f politics; the classification of governmen odels of democracy and their application; ia and political communication; represent	; propulsion 6L ts and polition the theory an tation, election	E cal systems; nd the role of ons and voter
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International Relations: the study of International Relations; theories of International Relations; states and the inter-state system; non-state actors in international relations; Africa's international relations.

Civil-military relations: politics, the military and 'control'; reforming civil-military relations; challenges for military transformation; parliamentary oversight of the defence sector in South Africa and Tanzania.

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Home department: POLITICAL SCIENCE (MIL)

21	14	

16 South Africa and the International Community

Phenomenon of globalisation; institutionalised international co-operation; international intergovernmental organisations; regional sub-system of Southern Africa; conflict and conflict management in Africa; goals and scope of foreign policy; goals and scope of diplomacy; foreign policy in South Africa since 1994; the military dimension in South Africa's foreign policy; South African philosophy and policy on participation in peace missions; principles of best practice engagement in peace missions for Africa and South Africa; division of labour between the UN and regional organisations with regards to peacekeeping.

Military Science

Home departm	nt: DO	LITICAL SCIENCE (MIL)		
244	16		5L	Е
			-	
The core introduction to function of the politics and society; the main theoretical approaches to the study of African politics; the political and economic context of pre-colonial Africa; the political and economic impact of colonialism on Africa, the factors behind the rise of nationalism and the emergence of independence movements; the role of ethnicity and class in contemporary African politics and society; the main trends and dynamics in state-society relations in Africa; the nature and dynamics of military intervention in African politics and society; the manifestation of democratic experiments and multiparty politics in Africa; the foreign policy-making context and the pan-African ideal in African political co-operation; the African continent in the 20th century and contemporary international politics and relations. Home department: POLITICAL SCIENCE (MIL)5LE31424African Political Thought5LEUnderstanding social research; ideology and the spectrum of political attitudes; the nation-state, nationalism and African nationalism; modern democracy and the search for democratic government in Africa; Marxism, socialism and African socialism; capitalism and political economies of African states; ideologies in the Developing World; ideology				
manifestation o P Political Scie	f Pan-A	fricanism.	inai Zamoia, w	nets and
Home departme	ent: PO	LITICAL SCIENCE (MIL)		
344	24	Africa and the International	5L	Е
		Political Economy		
Definitions and descriptions central to the study of political economy and the main characteristics of the world economic system; the evolution of the International Political Economy; the study of International Political Economy as a specific field of scholarly interest; Africa's contemporary economic history; internal and external causes of economic decline in Africa; the NEPAD strategy as a remedy for Africa's developmental challenges; lessons from successful states in the Developing World; U.S. foreign aid after September 11; the U.S., China and Africa in contemporary political-economic context; 'war economies' and the role of natural resources; the role of natural resources in the conflict in Sudan; the role of 'conflict diamonds' in Angola and Sierra Leone.				
P Political Science (Mil) 214, 244				
Home department: POLITICAL SCIENCE (MIL)				
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53449 PUBLIC AND DEVELOPMENT MANAGEMENT (MIL)				
144	12	Budget Management	5L	Ε
Introduction; why states require funds; objectives of the modern state; functions of the				
state and service provision; sources of income for the state; tax regimes; state expenses;				
functions of the budget; expense responsibility; the budget cycle and the defence budget.				
Home departme	ent: PU	BLIC AND DEVELOPMENT MAN	AGEMENT (M	IIL)

214	16	Public Labour Relations	5L	Ε
Introduction: d	efinition	ns; analysis; interaction and the processes	in which the la	abour
		our relations systems; role of the state; So		
		historical context; the legal framework; l		
		s in a theoretical context; communication		
		lures. Labour relations in the military env		
unions.	procee	ares. Easour relations in the minury env	nonment und i	uooui
	nt· PI⊺	BLIC AND DEVELOPMENT MANAG	EMENT (MIL)	\ \
			5L	E
244	16	Development Management	01	-
		views; theories and an overview of devel		
		eloping world; classifications, component		
		opment. Selected issues such as poverty, u		
		nent management and strategies: the role		
		ment planning, participation, community	development a	nd the role
of the military				
	ent: PU	BLIC AND DEVELOPMENT MANAGE	EMENT (MIL))
314	24	Organisational Science	5L	Е
This module fo	cuses of	n the development of organisational theor	ry. It addresses	the
		ns as systems; the components of the mac		
		f the organisation; organisational effectiv		
		contemporary problems of organisational		
		re and of organisational change and renew		
		BLIC AND DEVELOPMENT MANAGI		
324	24	Human Resource Development	5L	Е
-	e modu	le is to empower the student with knowle	dge and skills t	o evaluate
		ourses and study material. The module in		
		s analysis; organisational training needs a		
		ds for different levels of military courses;		
material, manuals and programmes; selection of training techniques; presentation skills,				
		al skills, training the officer to become an		on skins,
		DUSTRIAL PSYCHOLOGY (MIL)	mstructor.	
344	24	Public Management under	5L	Е
011		Administrative Law Principles		2
The module pr	l wides a	in introduction to South A fricon administ	rative law as a	set of
The module provides an introduction to South African administrative law as a set of guidelines for effective public management. Attention is given to basic concepts of				
		eral principles of administrative law; co-		
		trative law, administrative law relationshi		
		st administrative action and control over a	aministrative a	iction and
		ate to the actions of a public manager.		
Home departme	ent: PU	BLIC AND DEVELOPMENT MANAGE	ement (MIL)	
56294 SECU	RITY	LAW (MIL)		
144	12	Security Law	5L	Е

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 12
 Security Law
 5L
 E

 International Law: introduction, sources of international law, international law and municipal law, states and governments, international organisations, individuals, companies and groups, jurisdiction, immunity from jurisdiction, treaties.
 Humanitarian Law: human rights, ius ad bellum, ius in bello, the United Nations and peace and security.

Operational Law: private defence, necessity, obedience to orders, official capacity.

Home department: MERCANTILE AND PUBLIC LAW (MIL)

45764 STATISTICS (MIL)				
144	12	Statistics for Managers	6L, 2P	Е
Frequency distributions and graphical representations. Descriptive measures of location				
and dispersion. Sampling. Introductory probability theory, theoretical distributions and				
sampling distributions. Introduction to statistical inference: estimation theory and				
hypothesis testing of sampling averages and proportions. Regression and correlation.				
Analysis of variance. Introductory categorical data analysis and distribution-free				
methods. Identification, use, evaluation and interpretation of statistical computer				
packages and statistical techniques.				
Home departm	ent: MA	THEMATICS (MIL)		