

# **CALENDER 2012**

**FACULTY OF ECONOMIC SCIENCES AND  
INFORMATION TECHNOLOGY  
UNDERGRADUATE  
Vaal Triangle Campus**

Address all correspondence to:  
The Registrar  
North-West University  
Vaal Triangle Campus  
P.O. Box 1174  
Vanderbijlpark  
1900

Tel: (016) 910 3290  
Fax: (016) 910 3292  
Internet: <http://www.nwu.ac.za>

PLEASE MENTION YOUR UNIVERSITY NUMBER IN ALL CORRESPONDENCE.

The Academic Rules of the University, to which all students have to subject themselves and which apply to all the qualifications offered by the University, appear in a separate publication and are available on the web page at: <http://www.nwu.ac.za>.

**Please note:** Although the information in this Calendar has been compiled with the utmost care and accuracy, the Council and the Senate of the University accept no responsibility whatsoever for errors that may occur. Before students finally decide on the selection of modules, they must consult the class timetable. If a clash occurs in the planned selection of a student, the relevant module combination is not permitted.

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## **OFFICE BEARERS**

**Executive Dean: Prof HJ van der Merwe**

**Director: Research Development: Prof A Garnett**

## **SCHOOL OF ACCOUNTING SCIENCES**

**Director: Prof HH Janse van Vuuren**

### **Management Accounting**

Subject Chair: Ms E Venter

### **Tax**

Subject Chair: Prof M Delpont

### **Commercial Law**

Subject Chair: Ms V Pelsler-Carstens

### **Auditing**

Subject Chair: Mr A Swart

### **Accounting**

Subject Chair: Ms A Mostert

## **SCHOOL OF ECONOMIC SCIENCES**

**Director: Dr WCJ Grobler**

### **Economics**

Subject Chair: Dr B Sekatane

### **Business Management**

Subject Chair: Ms T Mosabala

### **Risk Management**

Subject Chair: Mr A Mellet

### **Marketing and Sport Sciences**

Subject Chair: Dr WP Viljoen

## **SCHOOL OF INFORMATION TECHNOLOGY**

**Director: Prof PD Pretorius**

### **Information Technology**

Subject Chair: Ms I Smit

### **Business Mathematics and Informatics**

Subject Chair: Vacant

### **Mathematics**

Subject Chair: Ms D Gerber

### **Statistics and Operational Research**

Subject Chair: Ms C Scrimnger-Christian

**FACULTY OF HUMANITIES:**

**SCHOOL OF BEHAVIOURAL SCIENCES**

**Director: Prof C van Eeden**

**Industrial Psychology**

Subject Chair: Dr E Botha

**Labour Relations Management**

Subject Chair: Dr L Moolman

**Psychology**

Subject Chair: Mrs H Williams

**Social Work**

Subject Chair: Dr A Fouche

**Sociology**

Subject Chair: Mr PJM van Niekerk

## **FACULTY BOARD**

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Bevan-Dye, A

Delpont, M

De Klerk, N

Garnett, A

Gilliland, S

Grobler, WCJ

Janse van Vuuren, HH

Jordaan, DB

Lucouw, P

May, C

Pelser-Carstens, V

Pretorius, PD

Vermeulen, CW

SRC Academic

Mbijekana, W (Scribe)

Jooste, H (Secretary)

# 1 FACULTY RULES

## 1.1 AUTHORITY OF THE ACADEMIC RULES

The Faculty Rules valid for the different qualifications, programmes and curricula of this Faculty and contained in this Faculty Calendar are subject to the General Academic Rules of the University, as determined from time to time by the Council of the University on recommendation by the Senate. The Faculty Rules should therefore be read in conjunction with the General Academic Rules.

The *General Academic Rules*, which is published in the WebPages of the University can be found at <http://www.nwu.ac.za>

## 1.2 EVALUATION OF ACADEMIC LITERACY LEVELS

- a) All undergraduate students who register at the University for the first time, must report, at a time and place determined by the University, for compulsory proficiency tests in academic literacy in order to evaluate their ability to function in an academic environment. The purpose of the test is to identify students who, due to insufficient academic skills, run the risk of not completing their study programme successfully within the allowed period.
- b) The test is conducted in the presentation language of the programme that the student has registered for (Afrikaans or English), and with the exception of students who are indicated as marginal cases by the test, each student will receive only one opportunity to write the test. Students considered marginal cases, will receive a second opportunity to write the test.
- c) Students, who are identified as risk cases by the test, must register for the module AGLA 111 (Afrikaans) or AGLE111 (English). These modules will not be considered for credit purposes in curricula, but the credits awarded in these modules will count as additional credits.
- d) For admission to the examination in AGLA111 / AGLE111, a participation mark of 35% is required. Students who do not obtain admission to the examination in AGLA111 / AGLE111, or who fail the examination, and who also fail two or more other modules, will have to have the continuation of their studies in the next semester re-evaluated by the Selection Committee. Lastly, AGLA111 / AGLE111 must be passed by the end of the second historic year of study in order to prevent the termination of studies.
- e) AGLA121 / AGLE121 (depending on the student's preferred or working language) is a compulsory module for all students registering at the University for the first time. This module carries a weight of 12 credits and forms part of the curriculum that the student has registered for. A student who passed the compulsory test in academic literacy has admission to AGLA121 / AGLE121. A student who first had to complete AGLA111 / AGLE111 had to have obtained a final mark of at least 40% for AGLA111 / AGLE111 in order to obtain admission to AGLA121 / AGLE121.
- f) Students who have failed the module AGLA111 / AGLE111, but who have been admitted to AGLA121 / AGLE 121 and have passed this examination, may have their results for AGLA111 / AGLE111 condoned into a passing grade by the relevant school director.



- g) Students who have already successfully completed a module/course or modules/courses similar to AGLA111, 121 / AGLE111, 121, at another institution and can provide proof of this, can apply, in writing, to receive recognition for this from the **Director of the School for Languages**.
- h) A subminimum applies to each of the three sections of AGLA/E121. Students must pass all three sections to complete the module successfully.

### **1.3 FACULTY-SPECIFIC RULES**

#### **1.3.1 Admission requirements**

Requirements for admission to the University are given in General Academic Rule A.5.1. Specific requirements are stated in the rules of the different qualifications, programmes and curricula offered in the Faculty.

#### **1.3.2 Admission to the examination**

- a) Admission to the examination in any module takes place by obtaining a proof of participation (Academic Rule A.5.4.3).
- b) A proof of participation that grants admission to the examination will only be issued after a student has, to the satisfaction of the school director in consultation with the subject chair, complied with the requirements of the specific proof of participation as set out in the **study guide** of the relevant module.
- c) In order to be admitted to the examination (the final assessment) in a module, a bona fide first year student must have obtained the minimum participation mark of 35% for a first semester first year module.
- d) In order to be admitted to the examination for modules other than a first year module mentioned in c) above, a student must have obtained the minimum participation mark of 40%.

#### **1.3.3 Pass requirements of a module and a curriculum**

- a) The provisions of Academic Rule A.5.4.4 apply.
- b) The sub-minimum for all examination papers is 40% (Academic Rule A5.4.4.4). There are also modules from other faculties such as the Faculty of Humanities where the JURI-modules have a sub-minimum of 45%.
- c) In order to pass a module, the final module mark of at least 50% must be attained (Academic Rule A5.4.4.1), but still subject to the sub-minimum for each examination paper as required in b) above.
- d) The adjustment of a final module mark of a first semester module in which a bona fide first-time entering student who had obtained a participation mark and has written the final examination paper, but has not passed, will be done in accordance with Academic Rule A5.4.4.2.
- e) Passing all the modules of which the programme or curriculum is compiled individually, means passing the programme.
- f) The requirements for a module/curriculum/qualification to be passed with distinction are 75%. Any qualification will be conferred with distinction if the candidate obtains an average of 75% for all the core modules of the curriculum of the qualification at all levels in the minimum period of study (Academic Rule A.5.4.5).

### **1.3.4 Progress in a curriculum**

- a) A module of any subject can only be registered for if the student has complied with the prescribed prerequisites as stipulated in the list of modules.
- b) Academic Rule A.5.3.5 stipulates the number of credits for which the student may register in a subsequent semester without permission from the Dean.
- c) A student may not continue with exit level modules unless the prescribed first year modules were successfully completed.

### **1.3.5 Termination of studies**

The studies of a student may be terminated (Academic Rule A.5.7).

- a) A student who in any semester fails more than 50% of the modules he / she was registered for, shall receive a formal written warning from the Dean, and be referred for academic advice and study counselling.
- b) If a student's academic performance is unsatisfactory the studies of the student may be terminated in terms of Academic Rule A.5.5.

### **1.3.6 Modules to complete a qualification**

In order to reach the programme outcomes of a curriculum in this faculty, it is not possible to complete exit level modules (i.e. third-year modules) through another institution, such as UNISA, to complete the qualification here. If one or more exit level modules are needed to complete a qualification, the student must return full time to pass the modules, or, in some instances, class exemption (with specific conditions) can be arranged with the specific School Director. Exemption from classes can only be given if the module has been attended previously, admission to the examination was received, but the examination was not passed. Exemption from classes will only be granted once (if the module is then not passed, it must again be taken full time). A maximum of two modules can be completed on second level through another institution, such as UNISA, to complete the qualification, provided that those are the only modules that are needed to complete the qualification in that year.

## **1.4 WARNING AGAINST PLAGIARISM**

Assignments are individual tasks and not group activities, unless expressly indicated as a group activity). For further details see: <http://www.nwu.ac.za>

## 1.5 SCHOOLS IN THE FACULTY

School	Subject group
School of Accounting Sciences	Accounting Auditing Commercial Law Management Accounting Tax
School of Economic Sciences	Business Management Economics Law Marketing Management Risk Management Sport Sciences
School of Information Technology	Business Mathematics and Informatics Information Technology Mathematics Statistics and Operational Research

## 1.6 QUALIFICATIONS, PROGRAMMES AND CURRICULA

<b>SCHOOL OF BEHAVIOURAL SCIENCES (B Com - 3 years)</b>				
<b>Qualification</b>	<b>Programme / Curriculum</b>	<b>NQF</b>	<b>APS</b>	<b>Admission Requirements</b>
500153 Full-time and Part-time	Programme: Industrial Psychology and Labour Relations Management <b>(E360V)</b>	6(7)	24	Mathematics level 3
500151 Full-time and Part-time	Programme: Human Resource Management <b>(E361V)</b>	6(7)	24	Mathematics level 3

<b>SCHOOL OF ACCOUNTING SCIENCES (B Com - 3 years)</b>				
<b>Qualification</b>	<b>Programme / Curriculum</b>	<b>NQF</b>	<b>APS</b>	<b>Admission Requirements</b>
<p><i>Note: Candidates without Accounting as school subject or those who did not meet the APS requirement should start with ACCS111 (Special Financial Accounting) and if they achieve at least 65% in this module at the end of the first semester they will be allowed to continue with ACCF121 (Financial Accounting) in the second semester. If a student achieves an average of 65% in ACCF121 he/she can write the second opportunity examination in ACCC121 and if the result is at least 55% he/she will be admitted to the second year CA-accounting.</i></p>				
500155 Full-time and Part-time	Programme: Chartered Accountancy (CA) <b>(E371V)</b>	6(7)	30	Mathematics level 5 and Accounting level 4
500156 Full-time and Part-time	Programme: Financial Accountancy (SAIPA) <b>(E372V)</b>	6(7)	28	Mathematics level 4
500158 Full-time and Part-time	Programme: Management Accounting (CIMA) <b>(E373V)</b>	6(7)	30	Mathematics level 5
500160 Full-time and Part-time	Programme: Accounting <b>(E334V)</b>	6(7)	24	Mathematics level 3
500162 Full-time	Programme: Accounting and Informatics <b>(E374V)</b>	6(7)	28	Mathematics level 4
<b>EXTENDED PROGRAMME (B Com - 4 years)</b>				
500204 Full-time	Programme: Chartered Accountancy (CA) <b>(E302V)</b>	6(7)	26	Mathematics level 3

<b>SCHOOL OF ECONOMIC SCIENCES (B Com - 3 years)</b>				
<b>Qualification</b>	<b>Programme / Curriculum</b>	<b>NQF</b>	<b>APS</b>	<b>Admission Requirements</b>
<i>Note: Candidates without Accounting as school subject or those who did not meet the APS requirement should start with ACCS111 (Special Financial Accounting) and if they achieve at least 65% in this module at the end of the first semester they will be allowed to continue with ACCF121 (Financial Accounting) in the second semester.</i>				
500130 Full-time and Part-time	Programme: Economics and International Trade <b>(E340V)</b>	6(7)	24	Mathematics level 4
500132 Full-time and Part-time	Programme: Economics and Risk Management <b>(E341V)</b>	6(7)	28	Mathematics level 4
500134 Full-time and Part-time	Programme: Economics, Risk Management and Investment Management <b>(E342V)</b>	6(7)	28	Mathematics level 5
500135 Full-time	Programme: Economics and Informatics <b>(E343V)</b>	6(7)	28	Mathematics level 4
500142 Full-time and Part-time	Programme: Entrepreneurship and Management <b>(E350V)</b>	6(7)	24	Mathematics level 3
500183 Full-time	Programme: in Law Subjects <b>(R301V)</b>	6(7)	30	Mathematics Level 3
500203 Full-time and Part-time	Programme: Marketing Management <b>(E354V)</b>	6(7)	24	Mathematics level 3
500150 Full-time	Programme: Sport and Recreation Management <b>(E301V)</b>	6(7)	24	Mathematical Literacy level 5
<b>EXTENDED PROGRAMME (B Com - 4 years)</b>				
500214 Full-time	Programme: Economics and Risk Management <b>(E301V)</b>	6(7)	24	Mathematical Literacy 70% / Selection Test
<b>SCHOOL OF ECONOMIC SCIENCES (Diploma - 3 years)</b>				
832100 Full-time	Programme: Diploma in Sport Science <b>(G101V)</b>	5(6)	16	National Senior Certificate / Admission to Diploma studies

<b>SCHOOL OF INFORMATION TECHNOLOGY (BSc - 3 years)</b>				
<b>Qualification</b>	<b>Programme / Curriculum</b>	<b>NQF</b>	<b>APS</b>	<b>Admission Requirements</b>
200166 Full-time	Programme: Quantitative Risk Management <b>(N134V)</b>	6(7)	32	Mathematics level 6
200167 Full-time	Programme: Financial Mathematics <b>(N135V)</b>	6(7)	32	Mathematics level 6
200168 Full-time	Programme: Data Mining <b>(N136V)</b>	6(7)	32	Mathematics level 6
200123	Programme: Actuarial Science <b>(N137V)</b>	<b>*Not presented in 2012</b>		
264100 Full-time	Programme: Information Technology <b>(N150V)</b>	6(7)	24	Mathematics level 4 and one of the following on level 4: Physical Sciences, Life Sciences, Information Technology or Accounting.
200191 Full-time	Programme: Computer and Mathematical Sciences:			
	Curriculum: Computer Science and Economics <b>(N175V)</b>	6(7)	24	Mathematics level 5 and Physical Sciences level 4
	Curriculum: Computer Science and Statistics <b>(N156V)</b>	6(7)	24	Mathematics level 5 and Physical Sciences level 4
<b>EXTENDED PROGRAMMES (BSc - 4 years)</b>				
200198 Full-time	Programme: Data Mining <b>(N301V)</b>	6(7)	28	Mathematics level 4
264102 Full-time	Programme: Information Technology <b>(N301V)</b>	6(7)	24	Mathematics level 3

## **2 RULES FOR DEGREES AND DIPLOMAS**

### **2.1 RULES FOR THE DEGREE BACHELOR OF COMMERCE**

#### **2.1.1 Duration of study**

The minimum duration of the study for a B Com qualification is three years and the maximum duration for the completion of the qualification is four years.

The minimum duration of the study for a B Com extended qualification is four years and the maximum duration for the completion of the qualification is five years.

#### **2.1.2 Admission requirements**

The B Com qualification requires a minimum APS-score of 24 and Mathematics on level 3 (40-49%).

The following exceptions apply:

- a) Accounting (500160 : E334V) requires Mathematics on level 3 (40-49%) and an APS of 24.
- b) Financial Accountancy (500156 : E372V) and Accounting and Informatics (500162 : E374V) require Mathematics on level 4 (50-59%) and an APS of 28.
- c) Management Accountancy (500158 : E373V), and Chartered Accountancy CA (500155 : E371V) require Mathematics on level 5 (60-69%) and an APS of 30.
- d) Chartered Accountancy CA Extended Programme (500204 : E302V) requires Mathematics on level 3 (40-49%) and an APS of 26.
- e) A student on the Chartered Accountancy CA Extended Programme (500155 : E302V) curriculum will not necessarily be allowed to change over to any other curriculum
- f) Economics and International Trade requires Mathematics on level 4 (50-59%) and an APS of 24
- g) Economics, Risk- and Investment Management, (500134 : E342V) requires Mathematics on level 5 (60-69%) and an APS of 28.
- h) Economics and Risk Management (500132 : E341V) requires Mathematics on level 4 (50-59%) and an APS of 28.
- i) Economics and Risk Management Extended Programme (500214 : E301V) requires Mathematics Literacy 70% and an APS of 24.
- j) Sport and Recreation Management (500150 : E301V) requires Mathematics Literacy on level 5 (60-69%) and an APS of 24.
- k) Diploma in Sport Science (832100 : G101V) requires a National Senior Certificate allowing diploma studies and an APS of 16.
- l) Entrepreneurship and Business Management (500142 : E350V), Marketing Management (500203 : E354V), Industrial Psychology and Labour Relations Management (500153 : E360V) and Human Resource Management (500151 : E361V), require Mathematics on level 3 (40-49%) and an APS of 24.
- m) The Accounting modules ACCC111 and ACCC121 require Accounting on level 4 (50-59%).

- n) Students who did not have Accountancy as a subject at school, must do the Special Accounting modules ACCS111,121 in the first year before starting with ACCF111.
- o) If a student achieves 65% at the end of the first semester in ACCS111, the student will be allowed to continue with ACCF121 in the second semester.
- p) If a student achieves 65% at the end of the first semester in ACCF111, the student will be allowed to continue with ACCC121 in the second semester.
- q) If a student achieves 65% in ACCF111,121, he/she can write the second opportunity examination in ACCC121 and if a mark of 55% is reached, he/she can be admitted to the second year CA-Accountancy (ACCC271).

### 2.1.3 Outcomes

The general outcomes of the B Com qualification are the following:

- a) Empowering students with graduate knowledge of concepts, structures, models, theories, principles, skills, research methodologies and applied competence enabling them to pursue rewarding careers in the changing economic and business environment of the new millennium.
- b) Providing South Africa with graduates who are competent in one or more of the following specialisations: Economics, International Trade and Marketing, Risk Management, Business Management, Entrepreneurship, Accounting, Computer Science and Information Technology, Human Resource Development, Labour Relations and Business Ethics.
- c) Assisting and enabling the student to develop his/her intellectual and moral capacity to understand the economic and business environment, to think critically and innovatively and to lay the foundations for further specialisation.

In addition to the general outcomes of this qualification its contents is structured in such a way that specific exit levels (including the critical outcomes) can be attained. The B Com graduate will be able to:

- a) demonstrate a thorough knowledge of and insight into economic and business environments and to solve problems that arise from these environments in the context of other disciplines;
- b) identify and solve convergent and divergent economic and business related problems in a creative and critical manner on the strength of his/her multidisciplinary knowledge of concepts, structures, models, theories, principles and research methods;
- c) identify and create opportunities and understand the entrepreneurial process.
- d) act effectively both as an individual and in the context of a team and organisation in view of creating the opportunity to develop as a leader in a multidisciplinary environment;
- e) organise and manage his/her activities with self-discipline, integrity and commitment in a responsible and effective manner in order to reach the required goals;
- f) collect, analyse, organise, critically evaluate and apply economic and entrepreneurial management knowledge;
- g) exploit and communicate economic and business information effectively by utilising appropriate information technology;



- h) demonstrate responsibility towards the environment and the health of other people by the effective and critical use of science and technology;
- i) practise lifelong learning by establishing an active interest in the dynamics of the economic and business environment;
- j) demonstrate an understanding for the need to sustain competence and healthy practices in order to keep ahead of the changing economic environment of new methods, techniques and competing challenges;
- k) critically evaluate views of life;
- l) develop respect for the value system of this University;
- m) act as a responsible citizen at a local, national and international level;
- n) be sensitive to the socio-economic needs of our heterogenic and multicultural business communities and of the world in general;
- o) exploit educational and career opportunities.

#### **2.1.4 Articulation**

- a) Vertically the B Com qualification articulates a competency to apply for admission to NQF level 6 (7) qualifications, specifically honours qualifications in the student's selected specialist discipline.
- b) The B Com qualification prepares the graduate for a career in a local and international economic and business environment.
- c) The B Com qualification may grant the student admission to related studies at other institutions for higher education.
- d) Articulation at other tertiary institutions is possible on the strength of applicable exit levels attained.

### 2.1.5 List of modules

Module code	Descriptive name	Prerequisites	Credits
<b>Chartered Accountancy</b>			
ACCC111	Accounting: Framework, Assumptions, Cycle and Financial Reporting	Mathematics level 5 (60-69%) and Accounting level 4 (50-59%)	16
ACCC121	Accounting: Introductory Corporate Accounting	ACCC111 (55%) or ACCF111 (65%)	16
ACCC271	Accounting: Corporate accounting and introduction to IFRS and group statements	ACCC121(55%) or ACCF111,121(65%) and ACCC121 (55%) in the 2nd Exam Opportunity	32
ACCC371	Accounting: Complex Corporate Accounting and IFRS	ACCC271 (55%)	32
<b>Financial Accountancy</b>			
ACCF111	Financial Accounting: Basic Concepts, Accounting Cycle, Accounting Systems and Elementary Financial Reporting	Mathematics and Accounting level 3 (40-49%)	16
ACCF121	Financial accounting: Elementary Financial Reporting, Partnerships, Closed Corporations and Companies	ACCF111 (40%) or ACCC111 (40%) or ACCS 111 (65%)	16
ACCF211	Financial Accounting: Financial Reporting	ACCF111 & 121 or ACCC111 & 121	16
ACCF221	Financial Accounting: Special Topics and Elementary Group Statements	ACCF211 (40%) or ACCC271 (40%)	16
ACCF311	Financial Accounting: Group Statements and Introduction to International Financial Reporting Standards (IFRS)	ACCF211 & 221 or ACCC271	16
ACCF321	Financial Accounting: International Financial Reporting Standards (IFRS)	ACCF311 (40%) or ACCC371 (40%)	16
<b>Financial Accounting (Special)</b>			
ACCS111	Financial Accounting (Special): Basic Concepts, Accounting Cycle and Accounting Systems		16
ACCS121	Financial Accounting (Special): Financial Reporting, Analyses and Interpretation of Financial Statements	ACCS111 (40%)	16
<b>Academic Literacy</b>			
AGLE111	Introduction to Academic Literacy	TALL test	
AGLE121	Academic Literacy	AGLA/E111 or TALL test	12
<b>Accounting &amp; Computers</b>			
ACMP311	Accounting & Computers: Accounting and Auditing Computer Applications	AUDT221	12
<b>Auditing</b>			
AUDT211	Auditing: The Auditor and the Audit	ACCC111,121	12

Module code	Descriptive name	Prerequisites	Credits
	Process		
AUDT221	Auditing: Applications and Computer Auditing	AUDT211 (40%)	12
AUDT371	Auditing: Audit process- and Company Law Application	AUDT211 & 221	24
IAUD211	Internal Auditing: Role of the Internal Auditor	ACCC111 & 121 or ACCF111 & 121	12
IAUD221	Internal Auditing: Planning of Internal Audit Process	IAUD211 (40%)	12
IAUD321	Internal Auditing: Fieldwork and Finalisation Phases of the Internal Audit Process	IAUD211 & 221	16
<b>Business Management</b>			
BMAN111	Introduction to Business Management		12
BMAN121	General Management		12
BMAN211	Introduction to Marketing Management		16
BMAN212	Entrepreneurial skills		16
BMAN221	Purchasing Management		16
BMAN222	Entrepreneurial Opportunities		16
BMAN311	Financial Management		16
BMAN312	Entrepreneurship		16
BMAN321	Strategic Management		16
<b>Business Marketing</b>			
BMAR211	Services Marketing		16
BMAR221	Consumer Behaviour		16
BMAR311	Product Decisions		16
BMAR312	Price and Distribution Decisions		16
BMAR321	Marketing Research		16
BMAR322	Integrated Marketing Communications		16
<b>Economics</b>			
ECON111	Introduction to Economics		12
ECON121	Basic Micro- and Macro-economics		12
ECON211	Macro-economics	ECON121 & WISN/111/112/123	16
ECON221	Micro-economics	ECON121 & WISN111/WISN112/WISN123	16
ECON311	Fiscal and Monetary Policy	ECON211 & 221	16
ECON321	Economic Analysis	ECON211	16
ECON322	Development Economics	ECON211	16
EKIP211	International Trade		16
EKIP221	International Financing		16
EKIP311	International Trade Geography		16
EKIP321	International Business Communication		16

Module code	Descriptive name	Prerequisites	Credits
EKRP211	Introduction to Risk Management		16
EKRP221	Corporate Financing	ECON211	16
EKRP311	Bank Risk Management	ECON211	16
EKRP321	Financial Markets	WISN111/WISN112/ WISN123	16
EKRP311	Bank Risk Management	(ECON211 & EKRP211 & EKRP221) or (BWIA 211 & ECON211)	16
EKRP321	Financial Markets	EKRP221 or (BWIA 221 & WISN111/WISN112/ WISN123)	16
<b>Law</b>			
JURI111	Introduction to Law		12
JURI112	Language skills in Legal Context		8
JURI113	History of Law		12
JURI114	Law of Persons and Juristic Persons		12
JURI121	Indigenous Law		12
JURI122	Legal Skills		12
JURI123	Contemporary Foundations of South African Law		12
JURI124	Law of Succession		12
JURI211	Criminal Law: General Principles		12
JURI213	Criminal Procedure		12
JURI214	Constitutional Law		12
JURI215	Entrepreneurial Law		12
JURI216	Family Law		12
JURI217	Interpretation of Statutes		12
JURI221	Criminal Law- Specific Crimes		12
JURI224	Labour Law		12
JURI223	Criminal Procedure		12
JURI225	Law of Delict		12
JURI226	Law of Property		12
JURI313	Jurisprudence		12
JURI315	Law of Contract		12
JURI327	Law of Specific Contracts		12
<b>Business French</b>			
FREB111	Elementary Business French 1		12
FREB121	Elementary Business French 2		12
<b>Business German</b>			
GERB111	Elementary Business German 1		12
GERB121	Elementary Business German 2	GERB111	12

Module code	Descriptive name	Prerequisites	Credits
<b>Management Accounting</b>			
FINM221	Financial Management: Introduction	ACCC121or ACCF121 and WISN112 or 123	16
FINM321	Financial Management: Decision Making and Valuations	FINM221	16
MACC211	Management Accounting: Cost terms, -elements and -systems.	ACCS111 & 121 or ACCC111 & 121 or ACCF111 & 121	16
MACC221	Management Accounting: Cost Behaviour Patterns and Decision-making Techniques	MACC211 (40%)	16
MACC311	Management Accounting: Planning and Control	MACC211 & 221	16
<b>Industrial Psychology</b>			
IOPS111	Introduction to Industrial Psychology		12
IOPS121	Ergonomics and Occupational Health		12
IOPS211	Personnel Psychology		16
IOPS221	Career Psychology		16
IOPS311	Organisational Behaviour		16
IOPS321	Psychometrics and Research Methodology		16
<b>Labour Relations Management</b>			
LARM111	Introduction to Workplace Relations		12
LARM211	Occupational Management		16
LARM221	Work Group Dynamics		16
LARM311	Theory and Practice of Labour Relations		16
LARM321	The Management of Labour Relations		16
LARM322	Conflict Resolution		16
HRMA122	The Functions of Human Resource Management		12
<b>Computer Science and Information Systems</b>			
ITRW112	Introduction to Programming		12
ITRW123	Graphic Interface Programming I	ITRW112	12
ITRW211	Graphic Interface Programming II	ITRW123	8
ITRW213	Systems Analysis and Design I	ITRW123	16
ITRW225	System Analysis and Design II	ITRW213	16
ITRW311	Databases I	ITRW225	16
ITRW321	Databases II	ITRW311	16
<b>Communication Studies</b>			
KCOM226	Business Communication Skills		12
<b>Human Resource Management (Business Psychology and Business Sociology)</b>			
PSDT111	Professional Skills Development		12

Module code	Descriptive name	Prerequisites	Credits
<b>Commercial Law</b>			
MLAW111	Introduction to Contracts and Business Law		12
MLAW121	Business Forms		12
MLAW211	Commercial Law: Advanced Company Law	MLAW121	12
<b>Professional Ethics</b>			
PETH211	Professional Ethics for Accountants		12
<b>Psychology</b>			
PSYC121	Social and Community Psychology		12
PSYC211	Developmental Psychology		16
PSYC212	Personality Psychology		16
PSYC311	Psychopathology		16
<b>Recreation Management</b>			
MBXR217	Sport Management		8
MBXR218	Sport Commercialisation, Sport Development and Sport Law		16
MBXR219	Sport Organisation and Administration		8
RKKX113	Introduction to Recreation Science		12
RKKX123	Introduction to Outdoor Recreation		12
RKKX214	Recreation Leadership		16
RKKX314	Professional Issues in Recreation		16
RKKX325	Recreation Management		16
<b>Statistics</b>			
STTN111	Descriptive Statistics		12
STTN121	Introductory Statistical Inference	STTN111	12
STTN122	Introductory Statistics		12
STTN124	Practical Statistics		12
STTK211	Probability Theory	WISN121	16
<b>Strategy, Risk Management and Control</b>			
STRA321	Strategy, Risk Management and Control	ACCC271 or ACCF211 & ACCF221	12
<b>Taxation</b>			
TAXC211	Introduction to Income Tax of Companies and Vat	ACCC111,121	12
TAXC221	Introduction to Income Tax of Individuals and Estate Administration	TAXC211	12
TAXC371	Income Tax of Businesses and Advanced Income Tax of Individuals	ACCC271 & TAXC221 (40%)	32
TAXF211	Introduction to Income Tax of Companies	ACCF111, 121	12
TAXF221	Introduction to Income Tax of Individuals	TAXF211(40%)	12
TAXF311	Taxation of individuals and businesses	TAXF221	16

Module code	Descriptive name	Prerequisites	Credits
TAXF321	Tax Applications	ACCF211/221 & TAXF311 (40%)	16
<b>Mathematics</b>			
WISN111	Introductory Algebra and Analysis I	Mathematics level 5 (60-69%)	12
WISN112	Mathematical Techniques	Mathematics level 4 (50-59%)	12
WISN121	Introductory Algebra and Analysis II	WISN111	12
WISN123	Mathematical Techniques	Mathematics level 4 (50-59%)	12
<b>Know and Understand the World</b>			
WVES221	Understanding the Economic World		12
WVES311	Applied Ethics		12

<b>Extended Programme Modules</b>			
Module Code	Descriptive Name	Prerequisites	Credits
ACFS111	Financial Accounting Special		16
ACFS121	Financial Accounting Special	ACFS111 (40%)	16
AGLA/E111	Introduction to Academic Literacy		
AGLA/E121	Academic Literacy		12
BRSF121	Analytical Thinking		8
CTSS111	Critical Thinking Skills		8
STTF111	Foundation Statistics I		12
STTF121	Foundation Statistics II	STTF111	12
WISS112	Foundation Mathematics I	Mathematics level 3 (40-49%) or Mathematical Literacy (70%)	12
WISS122	Foundation Mathematics II	WISS112	12

## 2.2 RULES FOR THE DEGREE BACHELOR OF SCIENCE

### 2.2.1 Duration of study

The minimum period of study for this qualification is three years for full-time students only. The minimum period of study for the extended programmes is four years for full-time students. The maximum period of study is equal to the minimum period of study plus one year. A student may apply for extension of this period.

### 2.2.2 Admission requirements

Admission to all the programmes in this qualification is governed by Academic Rule A2 of the University.

- A student who wishes to enrol for WISN111, must have obtained at least 60% (level 5) for Mathematics in the grade 12 examination or at least 70% (level 6) in another examination in Mathematics regarded by the Senate as equivalent to the above.

Students who do not meet these requirements, but have obtained at least 50% (level 4) in the grade 12 examination or at least 60% (level 5) in another examination in Mathematics deemed by the Senate as equivalent to the above, are permitted to a refresher course in Mathematics that will be offered in January by the School of Computer, Statistical and Mathematical Sciences (Potchefstroom Campus). If such students perform adequately in the tests that are written during this course, they may be considered for admission to studies in Mathematics modules for the BSc qualification.

- A student who wishes to enrol for Mathematical Techniques (WISN112, WISN123) / Basic Mathematical Techniques (WISN113) must have obtained at least 50% (level 4) for Mathematics in the grade 12 examination or at least 60% (level 5) in another examination in Mathematics deemed by the Senate as equivalent to the above.

#### **Remark:**

Prospective students who do not meet the grade 12 requirements to enrol for WISN111, and who also have not attended the refresher course, may obtain permission to WISN111 in the second study year by passing the appropriate module in Mathematical Techniques (WISN112, WISN123) in the first study year, on condition that students who acquire permission along this route to programmes that would have been otherwise inaccessible, have to take into consideration that they might not be able to complete their studies in the minimum period.

### 2.2.3 Outcomes

- a) General:

At the end of the studies, the student will have the ability to integrate the basic knowledge and techniques of the core subjects in the curriculum he/she completed with a view to investigating phenomena in nature relevant to the core subjects of the curriculum and solving relevant problems.

- b) Knowledge:

The student will: have a thorough knowledge of the core subjects of the curriculum he/she completed in order to be able to apply his/her knowledge; understand the physical reality in terms of this knowledge; be ready to continue with postgraduate studies in one of the core subjects.



c) Skills:

The student will have acquired the following skills:

- the ability to retrieve knowledge and information electronically and otherwise in preparation of lifelong learning;
- the ability to perform mathematical-analytical and mathematical-numerical data processing, problem solving and modelling;
- the ability to process, evaluate and report on scientific information;
- where applicable, the basic laboratory skills;
- the ability to work in groups and where necessary to exercise the necessary leadership.

d) Values:

The student ought to have acquired the following values:

- the ability to understand and strive after the normative aspects of practising science and in this way demonstrate a sense of responsibility towards fellow human beings and the environment in scientific investigations;
- scientific honesty and integrity;
- commitment;
- accountability (ICARUS).

#### 2.2.4 Articulation

- a) On successfully completing a curriculum the student who has performed adequately will have direct access to honours studies in one of the core subjects of the curriculum, and in the case of some core subjects, thereafter access to master studies.
- b) Credits will be awarded for modules that have been passed in other faculties or at other universities, provided such modules contribute to the outcomes and total credit requirements of the curriculum concerned.
- c) With the basic and applied skills that the student has acquired by this qualification in the mathematical, computer and natural science disciplines he/she will be prepared to continue further learning in several specialised subject areas at other institutions.

## 2.2.5 List of modules

Module code	Descriptive name	Prerequisites	Credits
<b>Financial Accountancy</b>			
ACCC111	Accounting: Framework, Assumptions, Cycle and Financial Reporting	Mathematics level 5 (60-69%) and Accounting level 4 (50-59%)	16
ACCC121	Accounting: Introductory Corporate Accounting	ACCC111 (55%) or ACCF111 (65%)	16
ACCF111	Financial Accounting: Basic Concepts, Accounting Cycle, Accounting Systems and Elementary Financial Reporting	Mathematics and Accounting level 3 (40-49%)	16
ACCF121	Financial accounting: Elementary Financial Reporting, Partnerships, Closed Corporations and Companies	ACCF111 (40%) or ACCC111 (40%) or ACCS111 (65%)	16
ACCF211	Financial Accounting: Financial Reporting	ACCF111, 121 or ACCC111, 121	16
ACCF221	Financial Accounting: Special Topics and Elementary Group Statements	ACCF211 (40%) or ACCC271 (40%)	16
<b>Financial Accounting Special</b>			
ACCS111	Financial Accounting (Special): Basic Concepts, Accounting Cycle and Accounting Systems		16
ACCS121	Financial Accounting (Special): Financial Reporting, Analyses and Interpretation of Financial Statements	ACCS111 (40%)	16
<b>Academic Literacy</b>			
AGLA/E111	Academic Literacy	TALL test	12
AGLA/E121	Academic Literacy	AGLA/E111 or TALL test	12
<b>Business Management</b>			
BMAN111	Introduction to Business Management		12
BMAN222	Entrepreneurial Opportunities		16
<b>Business Mathematics</b>			
BWIA271	Financial Mathematics	WISN121	32
BWIA311	Models: Survival Models and Stochastic Processes	STTN221	24
BWIN123	Project: Financial Mathematics	WISN111	12
BWIN313	Financial Mathematics	WISN221, STTN221	24
BWIN321	BMI project: Capital Markets Modelling and Analysis	BWIN313, STTN311	16
BWIN324	Statistical Methods	BWIN313	24

Module code	Descriptive name	Prerequisites	Credits
<b>Economics</b>			
ECON111	Introduction to Economics		12
ECON121	Basic Micro- and Macro Economics		12
ECON211	Macro Economics	ECON121 (40%) WISN113 (40%)	16
ECON221	Micro Economics		16
ECON311	Fiscal and Monetary Policy		16
ECON321	Economic Analysis		16
<b>Economics</b>			
EKRP211	Introduction to Risk Management		16
EKRP221	Cooperative Finance	EKRP211 (40%)	16
EKRP311	Bank Risk Management	EKRP211 (40%)	16
EKRP321	Financial Markets	EKRP311 (40%)	16
<b>Financial Management</b>			
FINM221	Financial Management: Introduction	ACCC121/ACCF1 21 and WISN112 / 123 / WISN111 / WISN121	16
<b>Information Technology and Computer Science</b>			
ITRW112	Introduction to Programming		12
ITRW123	Graphic Interface Programming I	ITRW112	12
ITRW124	Programming I	ITRW112	12
ITRW211	Graphic Interface Programming II	ITRW123	8
ITRW212	Programming II	ITRW124	16
ITRW213	Systems Analysis and Design I	ITRW123 or ITRW124	16
<b>Information Technology and Computer Science</b>			
ITRW214	Decision Support Systems I	WISN111 or WISN113	16
ITRW222	Data Structures and Algorithms	ITRW212	16
ITRW225	System Analysis and Design II	ITRW213	16
ITRW311	Databases I	ITRW225	16
ITRW313	Expert Systems	ITRW211 or ITRW212	8
ITRW315	Communication Skills	Must be registered for any other IT- module on level 3	8
ITRW316	Operating Systems	ITRW222	16
ITRW317	Artificial Intelligence	Must be registered for any other IT- module on level 3	16
ITRW321	Databases II	ITRW311	16

Module code	Descriptive name	Prerequisites	Credits
ITRW322	Computer Networks	ITRW316	16
ITRW324	IT Developments	Must be registered for any other IT-module on level 3	16
ITRW325	Decision Support Systems II	ITRW214	16
<b>Statistics</b>			
STTN111	Descriptive Statistics		12
STTN121	Introductory Statistical Inference	STTN111	12
STTK211	Probability Theory	WISN121	16
STTN221	Sampling theory and Statistical Inference	STTK211	16
STTN311	Statistical Inference	STTK211 & STTN221	32
STTK321	Linear Models	STTN311	24
STTK322	Statistics Project	STTN311	8
<b>Applied Mathematics</b>			
TGWN222	Numerical Analysis	WISN121	8
<b>Mathematics</b>			
WISN111	Introductory Algebra and Analysis I	Mathematics level 5 (60-69%)	12
WISN113	Basic Mathematical Techniques	Mathematics level 4 (50-59%)	12
WISN121	Introductory Algebra and Analysis II	WISN111	12
WISN211	Analysis III	WISN121	8
WISN212	Linear Algebra I	WISN121	8
WISN221	Analysis IV	WISN211	8
WISN222	Linear Algebra II	WISN212	8
WISN223	Discrete Mathematics	WISN111 or WISN113	8
WISN311	Real Analysis I	WISN221	16
WISN321	Real Analysis II	WISN311	16
<b>Compulsory Modules</b>			
WVNS211	Understanding the Natural World		12
WVNS221	Science and Society		12

<b>Extended Programme Modules</b>			
<b>Module code</b>	<b>Descriptive name</b>	<b>Prerequisites</b>	<b>Credits</b>
ACFS111	Financial Accounting Special		16
ACFS121	Financial Accounting Special	ACFS111 (40%)	16
CTSS111	Critical Thinking Skills		8
ITSP111	Introduction to Problem Solving		12
ITSP121	Introductory Programming Principles		12
ITSP113	Introduction to Graphical Interface Programming		16
ITSP114	Introduction to Object Oriented Programming		16
STTF211	Introduction to Probability		12
STTF221	Introduction to Sampling Theory and Statistical Inference	STTF211	12
STTF311	Statistical Inference	STTF221	16
STTF321	Foundation Data Mining	STTF311	16
WISS111	Introduction to Mathematics I	Mathematics level 3 (40-49%)	12
WISS121	Introduction to Mathematics II	WISS111	12
WISS113	Introduction to Mathematical Techniques I	Mathematics level 3 (40-49%)	12
WISS123	Introduction to Mathematical Techniques II	WISS113	12

## **2.3 RULES FOR THE DIPLOMA IN SPORT SCIENCE**

### **2.3.1 Duration of study**

The diploma is presented on a full-time basis.

The duration of study for this qualification is a minimum of two (2) years and a maximum of three (3) years.

Extension of the period of study can take place in accordance with the regulations of Academic Rule A.5.6.

### **2.3.2 Admission requirements**

In addition to the general admission requirements (Academic Rule A2) the following entrance requirements apply:

- a) The student must be in possession of a National Senior Certificate issued by the South African Certification Authority,
- b) An APS score of 15 is required for the diploma. In cases of merit, where the APS score was not obtained, the School of Economic Sciences may, after subjecting to testing, allow entrance.
- c) Recognition of prior learning will, where applicable, be granted by the faculty of prior learning in accordance with the university's relevant policy.
- d) Entrance to the programme is subject to prior selection, which is managed academically by the School of Economic Sciences.
- e) A student who wishes to register for the DS must determine his medical competence beforehand.

### **2.3.3 Outcomes**

After completion of the Sport Science Programme the student should be able to demonstrate knowledge, skill, value and applied competence in various aspects of one specific sport, by solving a well-defined and outlined problem, and in exemplary practice targeted scenario's or case studies, and to found these at the hand of the necessary theories and literature research.

### 2.3.4 List of modules

Module code	Descriptive name	Prerequisites	Credits
<b>Prescribed modules</b>			
AGLA/E111	Introduction to Academic Literacy	See Rule 1.2	-
AGLA/E121	Language Proficiency	AGLA/E 111(40)	12
WVGW221	Know and Understand the World of Health		12
<b>Psychology</b>			
PSYC121	Social and Community Psychology		12
<b>Sport Sciences</b>			
MBWK112	Motor Learning		12
MBWK216	Biomechanics		8
MBWK218	Introduction to Sport Injuries		8
MBWK223	Kinanthropometry	MBXR114	8
MBWK226	Sport and Exercise Psychology		8
MBXC124	Game Skills Development in Cricket		12
MBXC225	Game Skills Applications in Cricket		16
MBXG114	Coaching Science of Golf		8
MBXH221	Coaching Science of Hockey		8
MBXK124	Generic Coaching Science		12
MBXR112	Supplementation and Ergogenic Aids		12
MBXR114	Basic Anatomy and Energy Systems		12
MBXR214	Sport Physiology in Practice		8
MBXR216	Game Notational Analyses and Preparation		16
MBXR217	Sport Management		8
MBXR218	Sport Commercialisation, Sport Development and Sport Law		16
MBXR219	Sport Organization and Administration		8
MBXR324	Practical Coaching in Rugby		32
MBXT211	Coaching Science of Tennis		8

### 3 CURRICULA OF PROGRAMMES IN THE DIFFERENT SCHOOLS

**NOTE:** Core modules (“Main subjects”) are indicated by an (H) next to it.

#### 3.1 SCHOOL OF ACCOUNTING SCIENCES

##### 3.1.1 Curriculum: Chartered Accountancy (CA) Extended Programme E302V

Year level 1		Year level 2		Year level 3		Year level 4	
First semester		First semester		First semester		First semester	
Module code	Cr	Module code	Cr	Module code	Cr	Module code	Cr
ACFS111	16	ACCC111 (H)	16	AUDT211 (H)	12	MACC311 (H)	16
WISS112	12	PSDT111	12	MLAW211	12	ACMP311	12
CTSS111	8	MLAW111	12	MACC211 (H)	16		
BMAN111	12	STTF111	12	PETH211	12		
ECON111	12	WISN112	8	TAXC211 (H)	12		
<b>Total first semester</b>	<b>60</b>	<b>Total first semester</b>	<b>60</b>	<b>Total first semester</b>	<b>64</b>	<b>Total first semester</b>	<b>28</b>
Year level 1		Year level 2		Year level 3		Year level 4	
Second semester		Second semester		Second semester		Second semester	
Module code	Cr	Module code	Cr	Module code	Cr	Module code	Cr
AGLA/AGLE 121	12	ACCC121 (H)	16	AUDT221 (H)	12	FINM321 (H)	16
ACFS121	16	STTF121	12	MACC221 (H)	16	STRA321	12
WISS122	12	MLAW121	12	FINM221 (H)	16		
BMAN121	12	BRSF121	12	TAXC221 (H)	12		
ECON121	12						
STTN122	12						
<b>Total second semester</b>	<b>76</b>	<b>Total second semester</b>	<b>52</b>	<b>Total second semester</b>	<b>56</b>	<b>Total second semester</b>	<b>28</b>
<b>YEAR MODULES:</b>							
				ACCC271 (H)	32	ACCC371 (H)	32
						TAXC371 (H)	32
						AUDT371 (H)	24
				<b>Total Year module</b>	<b>32</b>	<b>Total Year module</b>	<b>88</b>
<b>Total Year level 1</b>	<b>136</b>	<b>Total Year level 2</b>	<b>112</b>	<b>Total Year level 3</b>	<b>152</b>	<b>Total Year level 4</b>	<b>144</b>
<b>Total credits for the curriculum</b>							<b>544</b>



### 3.1.2 Curriculum: Chartered Accountancy (CA) E371V

Year level 1		Year level 2		Year level 3	
First semester		First semester		First semester	
Module code	Cr	Module code	Cr	Module code	Cr
ACCC111 (H)	16	MACC211 (H)	16	MACC311 (H)	16
BMAN111	12	AUDT211 (H)	12	ACMP311	12
ECON111	12	MLAW211	12		
PSDT111	12	PETH211	12		
MLAW111	12	TAXC211 (H)	12		
WISN112	12				
<b>Total first semester</b>	<b>76</b>	<b>Total first semester</b>	<b>64</b>	<b>Total first semester</b>	<b>28</b>
Year level 1		Year level 2		Year level 3	
Second semester		Second semester		Second semester	
Module code	Cr	Module code	Cr	Module code	Cr
ACCC121 (H)	16	AUDT221 (H)	12	FINM321 (H)	16
AGLA/AGLE121	12	MACC221 (H)	16	STRA321	12
BMAN121	12	FINM221 (H)	16		
ECON121	12	TAXC221 (H)	12		
MLAW121	12				
STTN122	12				
<b>Total second semester</b>	<b>76</b>	<b>Total second semester</b>	<b>56</b>	<b>Total second semester</b>	<b>28</b>
		<b>YEAR MODULES:</b>			
		ACCC271 (H)	32	ACCC371 (H)	32
				TAXC371 (H)	32
				AUDT371 (H)	24
		<b>Total Year module</b>	<b>32</b>	<b>Total Year module</b>	<b>88</b>
<b>Total Year level 1</b>	<b>152</b>	<b>Total Year level 2</b>	<b>152</b>	<b>Total Year level 3</b>	<b>144</b>
<b>Total credits for the curriculum</b>					<b>448</b>

### 3.1.3 Curriculum: Financial Accountancy (SAIPA) E372V

Year level 1		Year level 2		Year level 3	
First semester		First semester		First semester	
Module code	Cr	Module code	Cr	Module code	Cr
ACCF111 (H)	16	ACCF211 (H)	16	MACC311 (H)	16
BMAN111	12	IAUD211 (H)	12	ACMP311	12
ECON111	12	MACC211 (H)	16	ACCF311 (H)	16
PSDT111	12	MLAW211	12	TAXF311 (H)	16
MLAW111	12	TAXF211 (H)	12	WVES311	12
WISN112	12				
<b>Total first semester</b>	<b>76</b>	<b>Total first semester</b>	<b>68</b>	<b>Total first semester</b>	<b>72</b>
Year level 1		Year level 2		Year level 3	
Second semester		Second semester		Second semester	
Module code	Cr	Module code	Cr	Module code	Cr
ACCF121 (H)	16	ACCF221 (H)	16	FINM321 (H)	16
AGLA/AGLE121	12	IAUD221 (H)	12	TAXF321 (H)	16
BMAN121	12	TAXF221 (H)	12	ACCF321 (H)	16
ECON121	12	MACC221 (H)	16	IAUD321 (H)	16
STTN122	12	FINM221 (H)	16		
MLAW121	12	WVES221	12		
<b>Total second semester</b>	<b>76</b>	<b>Total second semester</b>	<b>84</b>	<b>Total second semester</b>	<b>64</b>
<b>Total year level 1</b>	<b>152</b>	<b>Total year level 2</b>	<b>152</b>	<b>Total year level 3</b>	<b>136</b>
<b>Total credits for the curriculum</b>					<b>440</b>

### 3.1.4 Curriculum: Management Accountancy (CIMA) E373V

Year level 1		Year level 2		Year level 3	
First semester		First semester		First semester	
Module code	Cr	Module code	Cr	Module code	Cr
ACCC/ACCF111 (H)	16	ACCF211 (H)	16	MACC311 (H)	16
BMAN111	12	IAUD211 (H)	12	ACMP311	12
ECON111	12	MACC211 (H)	16	ACCF311 (H)	16
PSDT111	12	MLAW211	12	TAXF311 (H)	16
MLAW111	12	TAXF211 (H)	12	WVES311	12
WISN112	12				
<b>Total first semester</b>	<b>76</b>	<b>Total first semester</b>	<b>68</b>	<b>Total first semester</b>	<b>72</b>
Year level 1		Year level 2		Year level 3	
Second semester		Second semester		Second semester	
Module code	Cr	Module code	Cr	Module code	Cr
ACCC/ACCF121(H)	16	ACCF221 (H)	16	FINM321 (H)	16
AGLA/AGLE121	12	IAUD221 (H)	12	TAXF321 (H)	16
BMAN121	12	TAXF221 (H)	12	ACCF321 (H)	16
ECON121	12	MACC221 (H)	16	IAUD321 (H)	16
STTN122	12	FINM221 (H)	16	STRA321	12
MLAW121	12	WVES221	12		
<b>Total second semester</b>	<b>76</b>	<b>Total second semester</b>	<b>84</b>	<b>Total second semester</b>	<b>76</b>
<b>Total Year level 1</b>	<b>152</b>	<b>Total Year level 2</b>	<b>152</b>	<b>Total Year level 3</b>	<b>148</b>
<b>Total credits for the curriculum</b>					<b>452</b>

### 3.1.5 Curriculum: Accounting E334V

Year level 1		Year level 2		Year level 3	
First semester		First semester		First semester	
Module code	Cr	Module code	Cr	Module code	Cr
ACCF111 (H)	16	ACCF211 (H)	16	MACC311 (H)	16
BMAN111	12	BMAN211 (H)	16	BMAN311 (H)	16
ECON111	12	MACC211 (H)	16	ACCF311 (H)	16
PSDT111	12	TAXF211 (H)	12	TAXF311 (H)	16
MLAW111	12			WVES311	12
<b>Total first semester</b>	<b>64</b>	<b>Total first semester</b>	<b>60</b>	<b>Total first semester</b>	<b>76</b>
Year level 1		Year level 2		Year level 3	
Second semester		Second semester		Second semester	
Module code	Cr	Module code	Cr	Module code	Cr
ACCF121 (H)	16	ACCF221 (H)	16	FINM321 (H)	16
AGLA/AGLE 121	12	BMAN221 (H)	16	TAXF321 (H)	16
BMAN121	12	TAXF221 (H)	12	ACCF321 (H)	16
ECON121	12	MACC221 (H)	16	BMAN321 (H)	16
STTN122	12	FINM221 (H)	16		
WISN123	12	WVES221	12		
<b>Total second semester</b>	<b>76</b>	<b>Total second semester</b>	<b>88</b>	<b>Total second semester</b>	<b>64</b>
<b>Total year level 1</b>	<b>140</b>	<b>Total year level 2</b>	<b>148</b>	<b>Total year level 3</b>	<b>140</b>
<b>Total credits for the curriculum</b>					<b>428</b>

### 3.1.6 Curriculum: Accounting and Informatics E374V

Year level 1		Year level 2		Year level 3	
First semester		First semester		First semester	
Module code	Cr	Module code	Cr	Module code	Cr
ACCF111 (H)	16	ACCF211 (H)	16	ACCF311 (H)	16
BMAN111	12	ITRW211 (H)	8	ITRW311 (H)	16
ECON111	12	ITRW213 (H)	16	MACC311 (H)	16
PSDT111	12	MACC211 (H)	16	TAXF311 (H)	16
ITRW112 (H)	12	TAXF211 (H)	12	WVES311	12
WISN112	12				
<b>Total first semester</b>	<b>76</b>	<b>Total first semester</b>	<b>68</b>	<b>Total first semester</b>	<b>76</b>
Year level 1		Year level 2		Year level 3	
Second semester		Second semester		Second semester	
Module code	Cr	Module code	Cr	Module code	Cr
ACCF121 (H)	16	ACCF221 (H)	16	ACCF321(H)	16
AGLA/AGLE121	12	ITRW225 (H)	16	FINM321 (H)	16
BMAN121	12	MACC 221 (H)	16	ITRW321 (H)	16
ECON121	12	TAXF221 (H)	12	TAXF321 (H)	16
STTN122	12	FINM221 (H)	16		
ITRW123 (H)	12	WVES221	12		
<b>Total second semester</b>	<b>76</b>	<b>Total second semester</b>	<b>88</b>	<b>Total second semester</b>	<b>64</b>
<b>Total Year level 1</b>	<b>152</b>	<b>Total Year level 2</b>	<b>156</b>	<b>Total Year level 3</b>	<b>140</b>
<b>Total credits for the curriculum</b>					<b>448</b>

### 3.2 SCHOOL OF ECONOMIC SCIENCES

#### 3.2.1 Curriculum: Economics and International Trade E340V

Year level 1		Year level 2		Year level 3	
First semester		First semester		First semester	
Module code	Cr	Module code	Cr	Module code	Cr
ACCS/ACCF111	16	BMAN211 (H)	16	BMAN311 (H)	16
BMAN111 (H)	12	BMAR211 (H)	16	ECON311 (H)	16
ECON111 (H)	12	ECON211 (H)	16	EKIP311 (H)	16
PSDT111	12	EKIP211	16	EKRP211 or	16
ITRW112	12			FREB111 or	12
				GERB111	12
				WVES311	12
<b>Total first semester</b>	<b>64</b>	<b>Total first semester</b>	<b>64</b>	<b>Total first semester</b>	<b>72/ 76</b>
Year level 1		Year level 2		Year level 3	
Second semester		Second semester		Second semester	
Module code	Cr	Module code	Cr	Module code	Cr
ACCS/ACCF121	16	BMAN221 (H)	16	ECON321 (H)	16
AGLA/E121	12	ECON221 (H)	16	ECON322/ BMAN321 (H)	16
BMAN121 (H)	12	EKIP221 (H)	16	EKIP321 (H)	16
ECON121 (H)	12	BMAR221	16	EKRP221 or FREB121 or GERB121	16 12 12
STTN122	12	WVES221	12		
WISN123	12				
<b>Total second semester</b>	<b>76</b>	<b>Total second semester</b>	<b>76</b>	<b>Total second semester</b>	<b>60/ 64</b>
<b>Total Year level 1</b>	<b>140</b>	<b>Total Year level 2</b>	<b>140</b>	<b>Total Year level 3</b>	<b>132/ 140</b>
<b>Total credits for the curriculum</b>					<b>412/ 420</b>
If an honours degree in International trade is your aim, you must register for EKIP311,321.					

### 3.2.2 Curriculum: Economics and Risk Management Extended Programme E301V

Year level 1		Year level 2		Year level 3		Year level 4	
First semester		First semester		First semester		First semester	
Module code	Cr	Module code	Cr	Module code	Cr	Module code	Cr
ACFS111	16	ACCF111	16	ACCF211	16	ECON311(H)	16
BMAN111 (H)	12	BMAN211(H)	16	ECON211(H)	16	ACCF311/ EKIP311	16
CTSS111	8	WISN112	12	EKIP211	16	EKRP311 (H)	16
ECON111(H)	12	PSDT111	12	EKRP211 (H)	16	WVES311	12
WISS112	12	STTF111	12			BMAN311(H)	16
<b>Total first semester</b>	<b>60</b>	<b>Total first semester</b>	<b>68</b>	<b>Total first semester</b>	<b>64</b>	<b>Total first semester</b>	<b>76</b>
Year level 1		Year level 2		Year level 3		Year level 4	
Second semester		Second semester		Second semester		Second semester	
Module code	Cr	Module code	Cr	Module code	Cr	Module code	Cr
AGLA/E121	12	ACCF121	16	ACCF221	16	EKIP321	16
ACFS121	16	ECON221(H)	16	EKIP221	16	ECON321(H)	16
BMAN121 (H)	12	BRSF121	8	EKRP221(H)	16	ECON322 (H)	16
ECON121(H)	12	STTF121	12	BMAR221	16	EKRP321 (H)	16
STTN122	12	WVES221	12			BMAN321(H)	16
WISS122	12						
<b>Total second semester</b>	<b>76</b>	<b>Total second semester</b>	<b>64</b>	<b>Total second semester</b>	<b>64</b>	<b>Total second semester</b>	<b>80</b>
<b>Total year level 1</b>	<b>136</b>	<b>Total year level 2</b>	<b>132</b>	<b>Total year level 3</b>	<b>128</b>	<b>Total year level 4</b>	<b>156</b>
<b>Total credits for the curriculum</b>							<b>552</b>

### 3.2.3 Curriculum: Economics and Risk Management E341V

Year level 1		Year level 2		Year level 3	
First semester		First semester		First semester	
Module code	Cr	Module code	Cr	Module code	Cr
ACCS/ACCF111*	16	ACCF211	16	ECON311 (H)	16
BMAN111	12	BMAN211	16	EKIP311 (H)	16
ECON111 (H)	12	ECON211 (H)	16	EKRP311 (H)	16
PSDT111	12	EKIP211 (H)	16	BMAN311	16
WISN112	12	EKRP211 (H)	16	WVES311	12
<b>Total first semester</b>	<b>64</b>	<b>Total first semester</b>	<b>80</b>	<b>Total first semester</b>	<b>76</b>
Year level 1		Year level 2		Year level 3	
Second semester		Second semester		Second semester	
Module code	Cr	Module code	Cr	Module code	Cr
ACCS/ACCF121	16	ACCF221	16	ECON321 (H)	16
AGLA/AGLE121	12	ECON221 (H)	16	ECON322	16
BMAN121	12	EKIP221 (H)	16	EKIP321 (H)	16
ECON121 (H)	12	EKRP221 (H)	16	EKRP321 (H)	16
STTN122	12	BMAR221	16	BMAN321	16
		WVES221	12		
<b>Total second semester</b>	<b>64</b>	<b>Total second semester</b>	<b>92</b>	<b>Total second semester</b>	<b>80</b>
<b>Total Year level 1</b>	<b>128</b>	<b>Total Year level 2</b>	<b>172</b>	<b>Total Year level 3</b>	<b>156</b>
<b>Total credits for the curriculum</b>					<b>456</b>
<p>* Students who did not have Accounting in grade 12, will have to register for ACCS111,121 in the first year and then for ACCF111,121 and ACCF211, 221 in the second and third years. There should be no time table clashes.</p>					



### 3.2.4 Curriculum: Economics, Risk- and Investment Management E342V

Year level 1		Year level 2		Year level 3	
First semester		First semester		First semester	
Module code	Cr	Module code	Cr	Module code	Cr
ACCF111	16	ACCF211	16	EKIP311(H)	16
BMAN111	12	ECON211 (H)	16		
ECON111 (H)	12	EKIP211 (H)	16	ECON311 (H)	16
PSDT111	12	EKRP211 (H)	16	EKRP311 (H)	16
STTN111	12	STTK211	16	BMAN311	16
WISN111	12			WVES311	12
<b>Total first semester</b>	<b>76</b>	<b>Total first semester</b>	<b>80</b>	<b>Total first semester</b>	<b>76</b>
Year level 1		Year level 2		Year level 3	
Second semester		Second semester		Second semester	
Module code	Cr	Module code	Cr	Module code	Cr
ACCF121	16	ACCF221	16	EKIP321 (H)	16
AGLA/AGLE121	12	ECON221 (H)	16	ECON321 (H)	16
BMAN121	12	EKIP221 (H)	16	ECON322	16
ECON121 (H)	12	EKRP221 (H)	16	EKRP321 (H)	16
STTN121	12	BMAR221	16	BMAN321	16
WISN121	12	WVES221	12		
<b>Total second semester</b>	<b>76</b>	<b>Total second semester</b>	<b>92</b>	<b>Total second semester</b>	<b>80</b>
<b>Total Year level 1</b>	<b>152</b>	<b>Total Year level 2</b>	<b>172</b>	<b>Total Year level 3</b>	<b>156</b>
<b>Total credits for the curriculum</b>					<b>480</b>
If an honours degree in International trade is your aim, you must register for EKIP311,321.					

### 3.2.5 Curriculum: Economics and Informatics E343V

Year level 1		Year level 2		Year level 3	
First semester		First semester		First semester	
Module code	Cr	Module code	Cr	Module code	Cr
ACCS/ACCF111	16	ECON211 (H)	16	ECON311 (H)	16
BMAN111	12	EKRP211 (H)	16	EKRP311 (H)	16
ECON111 (H)	12	ITRW211 (H)	8	ITRW214 (H)	16
ITRW112 (H)	12	ITRW213 (H)	16	ITRW311 (H)	16
PSDT111	12	MACC211	16	WVES311	12
WISN112	12				
<b>Total first semester</b>	<b>76</b>	<b>Total first semester</b>	<b>72</b>	<b>Total first semester</b>	<b>76</b>
Year level 1		Year level 2		Year level 3	
Second semester		Second semester		Second semester	
Module code	Cr	Module code	Cr	Module code	Cr
ACCS/ACCF121	16	ECON221 (H)	16	ECON321 (H)	16
AGLA/AGLE121	12	EKRP221 (H)	16	ECON322 (H)	16
BMAN121	12	ITRW 225 (H)	16	EKRP321 (H)	16
ECON121 (H)	12	MACC221	16	ITRW321 (H)	16
ITRW123 (H)	12	WVES221	12	ITRW325 (H)	16
STTN122	12				
<b>Total second semester</b>	<b>76</b>	<b>Total second semester</b>	<b>76</b>	<b>Total second semester</b>	<b>80</b>
<b>Total Year level 1</b>	<b>152</b>	<b>Total Year level 2</b>	<b>148</b>	<b>Total Year level 3</b>	<b>156</b>
<b>Total credits for the curriculum</b>					<b>480</b>
<p>* Students who did not have Accounting in grade 12, will have to register for ACCS111,121 in the first year and then for ACCF111,121 and ACCF211, 221 in the second and third years. There should be no time table clashes.</p>					

### 3.2.6 Curriculum: Entrepreneurship and Business Management E350V

Year level 1		Year level 2		Year level 3	
First semester		First semester		First semester	
Module code	Cr	Module code	Cr	Module code	Cr
ACCS111	16	BMAN211 (H)	16	BMAN311	16
BMAN111 (H)	12	BMAN212 (H)	16	BMAN312 (H)	16
ECON111	12	LARM211 (H)	16	BMAR311	16
ITRW112	12	ECON211	16	LARM311 (H)	16
PSDT111	12			WVES311	12
<b>Total first semester</b>	<b>64</b>	<b>Total first semester</b>	<b>64</b>	<b>Total first semester</b>	<b>76</b>
Year level 1		Year level 2		Year level 3	
Second semester		Second semester		Second semester	
Module code	Cr	Module code	Cr	Module code	Cr
ACCS121	16	BMAN221 (H)	16	BMAN321 (H)	16
AGLA/AGLE121	12	BMAN222 (H)	16	BMAR321	16
BMAN121 (H)	12	BMAR221	16	BMAR322	16
ECON121	12	LARM221 (H)	16	LARM321 (H)	16
STTN122	12	ECON221	16		
WISN123	12	WVES221	12		
<b>Total second semester</b>	<b>76</b>	<b>Total second semester</b>	<b>92</b>	<b>Total second semester</b>	<b>64</b>
<b>Total Year level 1</b>	<b>140</b>	<b>Total Year level 2</b>	<b>156</b>	<b>Total Year level 3</b>	<b>140</b>
<b>Total credits for the curriculum</b>					<b>436</b>

### 3.2.7 Curriculum: Marketing Management E354V

Year level 1		Year level 2		Year level 3	
First semester		First semester		First semester	
Module code	Cr	Module code	Cr	Module code	Cr
ACCS111	16	BMAN211 (H)	16	BMAN311 (H)	16
BMAN111 (H)	12	BMAN212	16	BMAR311 (H)	16
ECON111	12	BMAR211 (H)	16	BMAR312 (H)	16
ITRW112	12	ECON211	16	EKIP311 (H)	16
PSDT111	12	EKIP211	16	WVES311	12
<b>Total first semester</b>	<b>64</b>	<b>Total first semester</b>	<b>80</b>	<b>Total first semester</b>	<b>76</b>
Year level 1		Year level 2		Year level 3	
Second semester		Second semester		Second semester	
Module code	Cr	Module code	Cr	Module code	Cr
ACCS121	16	BMAN221 (H)	16	BMAN321 (H)	16
AGLA/AGLE121	12	BMAR221 (H)	16	BMAR321 (H)	16
BMAN121 (H)	12	ECON221	16	BMAR322 (H)	16
ECON121	12	EKIP221 (H)	16	EKIP321 (H)	16
STTN122	12	WVES221	12		
WISN123	12				
<b>Total second semester</b>	<b>76</b>	<b>Total second semester</b>	<b>76</b>	<b>Total second semester</b>	<b>64</b>
<b>Total Year level 1</b>	<b>140</b>	<b>Total Year level 2</b>	<b>156</b>	<b>Total Year level 3</b>	<b>140</b>
<b>Total credits for the curriculum</b>					<b>436</b>

### 3.2.8 Curriculum: Sport and Recreation Management E301V

Year level 1		Year level 2		Year level 3	
First semester		First semester		First semester	
Module code	Cr	Module code	Cr	Module code	Cr
ACCS111	16	BMAN211 (H)	16	BMAN311 (H)	16
BMAN111 (H)	12	BMAR211 (H)	16	BMAR311 (H)	16
ECON111	12	MBXR217	8	RKKX314 (H)	16
MBXR218	16	RKKX214 (H)	16	BMAR312 (H)	16
RKKX113 (H)	12	MBXR219	8	WVES311	8
<b>Total first semester</b>	<b>68</b>	<b>Total first semester</b>	<b>64</b>	<b>Total first semester</b>	<b>72</b>
Year level 1		Year level 2		Year level 3	
Second semester		Second semester		Second semester	
Module code	Cr	Module code	Cr	Module code	Cr
STTK122	8	BMAN221 (H)	16	BMAR321 (H)	16
AGLA/ AGLE121	12	BMAN222 (H)	16	BMAR322 (H)	16
BMAN121 (H)	12	BMAR221 (H)	16	BMAN321 (H)	16
ECON121	12	WVES221	12	RKKX325 (H)	16
RKKX123 (H)	12				
<b>Total second semester</b>	<b>56</b>	<b>Total second semester</b>	<b>60</b>	<b>Total second semester</b>	<b>64</b>
<b>Total Year level 1</b>	<b>124</b>	<b>Total Year level 2</b>	<b>124</b>	<b>Total Year level 3</b>	<b>136</b>
<b>Total credits for the curriculum</b>					<b>384</b>

### 3.2.9 Curriculum: Law Subjects R301V

Year level 1		Year level 2		Year level 3	
First semester		First semester		First semester	
Module code	Cr	Module code	Cr	Module code	Cr
ACCF/ACCS111*	16	JURI211 (H)	12	JURI216 (H)	12
BMAN111	12	JURI213 (H)	12	JURI217 (H)	12
ECON111	12	JURI214 (H)	12	JURI313 (H)	12
JURI111 (H)	12	JURI215 (H)	12	JURI315 (H)	12
JURI112 (H)	8	Two of the following: BMAN211 or ECON211 or ACCF211	32	One of the following: BMAN311 or ECON311 or ACCF311	16
JURI113 (H)	12			One of the following: BMAR312 or EKIP211 or EKRP211 or TAXF211	12/ 16
JURI114 (H)	12				
<b>Total first semester</b>	<b>84</b>	<b>Total first semester</b>	<b>80</b>	<b>Total first semester</b>	<b>76/ 80</b>
Year level 1		Year level 2		Year level 3	
Second semester		Second semester		Second semester	
Module code	Cr	Module code	Cr	Module code	Cr
ACCF121/ACCS121	16	JURI121 (H)	12	JURI224 (H)	12
AGLE121	12	JURI122 (H)	12	JURI225 (H)	12
BMAN121	12	JURI221 (H)	12	JURI226 (H)	12
ECON121	12	JURI223 (H)	12	JURI327 (H)	12
JURI123 (H)	12	Two of the following: BMAN221 or ECON221 or ACCF221 (H)	32	One of the following: BMAN321 or ECON321 or ACCF321	16
JURI124	12			One of the following: BMAR321 or EKIP221 or EKRP221 or TAXF221	12/ 16
WISN123/STTN122	12				
<b>Total second semester</b>	<b>88</b>	<b>Total second semester</b>	<b>80</b>	<b>Total second semester</b>	<b>76/ 80</b>
<b>Total Year level 1</b>	<b>172</b>	<b>Total Year level 2</b>	<b>160</b>	<b>Total Year level 3</b>	<b>152/ 160</b>
<b>Total credits for the curriculum</b>					<b>484/ 492</b>
<p>** Students that choose ECON as main module must take WISN123 on first level.  ** Students who wants to continue with ACCF must take TAXF211and TAXF221 (Both 12 Credits) .  ** Students that choose BMAN311 and BMAN321 must take BMAR312 and BMAR321.  ** Students that choose ECON311 and ECON 321 must take EKIP211 and EKIP221 or EKRP211 and EKRP221.  ** Students that choose ACCF311 and ACCF321 can take TAXF211 and TAXF221 optional.  ** Students that take ACCF211 must have passed ACCF121.</p>					

### 3.2.10 Curriculum: Sport Science G101V

Year level 1		Year level 2		Year level 3	
First semester		First semester		First semester	
Module code	Cr	Module code	Cr	Module code	Cr
MBXR114	12	MBXT211	8	MBWK218	8
MBXR112	12	MBWK216	8	MBXR219	8
MBWK112	12	MBXG114	8	MBXR217	8
		MBXR216	16	MBXR218	16
		MBXR214	8		
<b>Total first semester</b>	<b>36</b>	<b>Total first semester</b>	<b>48</b>	<b>Total first semester</b>	<b>40</b>
Year level 1		Year level 2		Year level 3	
Second semester		Second semester		Second semester	
Module code	Cr	Module code	Cr	Module code	Cr
PSYC121	12	MBWK223	8	MBWK226	8
MBXK124	12	MBXH221	8	MBXR324	32
MBXC124	12	WVGW221	12		
AGLA/AGLE121	12	MBXC225	16		
<b>Total second semester</b>	<b>48</b>	<b>Total second semester</b>	<b>44</b>	<b>Total second semester</b>	<b>40</b>
<b>Total year level 1</b>	<b>84</b>	<b>Total year level 2</b>	<b>92</b>	<b>Total year level 3</b>	<b>80</b>
<b>Total credits for the curriculum</b>					<b>256</b>

### 3.3 SCHOOL OF BEHAVIOURAL SCIENCES

#### 3.3.1 Curriculum: Industrial Psychology and Labour Relations Management E360V

Year level 1		Year level 2		Year level 3	
First semester		First semester		First semester	
Module code	Cr	Module code	Cr	Module code	Cr
ACCS111	16	IOPS211	16	BMAN211	16
BMAN111	12	LARM211	16	IOPS311	16
ECON 111	12	PSYC211	16	LARM311	16
IOPS 111	12	PSYC212	16	PSYC311	16
LARM111	12	STTN111	12	WVES311	12
<b>Total first semester</b>	<b>64</b>	<b>Total first semester</b>	<b>76</b>	<b>Total first semester</b>	<b>76</b>
Year level 1		Year level 2		Year level 3	
Second semester		Second semester		Second semester	
Module code	Cr	Module code	Cr	Module code	Cr
ACCS121	16	IOPS221	16	BMAR221	16
AGLA121/AGLE121	12	LARM221	16	IOPS321	16
BMAN121	12	PSYC221	16	LARM321	16
ECON121	12	STTN124	12	*LARM322	16
IOPS121	12	WVES221	12	PSYC321	16
PSYC121	12				
<b>Total second semester</b>	<b>76</b>	<b>Total second semester</b>	<b>72</b>	<b>Total second semester</b>	<b>64/ 80</b>
<b>Total year level 1</b>	<b>140</b>	<b>Total year level 2</b>	<b>148</b>	<b>Total year level 3</b>	<b>140/ 156</b>
<b>Total credits for the curriculum</b>					<b>428/ 444</b>
*Students who want to continue with Honours B Com in Labour Relations Management must register and pass LARM322.					



### 3.3.2 Curriculum: Human Resource Management E361V

Year level 1		Year level 2		Year level 3	
First semester		First semester		First semester	
Module code	Cr	Module code	Cr	Module code	Cr
IOPS111	12	IOPS211	16	IOPS311	16
LARM111	12	BMAN211	16	BMAN311	16
BMAN111	12	LARM211	16	LARM311	16
ECON111	12	STTN111	12	WVES311	12
ACCS111	16				
<b>Total first semester</b>	<b>64</b>	<b>Total first semester</b>	<b>60</b>	<b>Total first semester</b>	<b>60</b>
Year level 1		Year level 2		Year level 3	
Second semester		Second semester		Second semester	
Module code	Cr	Module code	Cr	Module code	Cr
IOPS121	12	IOPS221	16	IOPS321	16
HRMA122	12	STTN124	12	LARM321	16
BMAN121	12	LARM221	16	LARM322	16
ECON121	12	WVES221	12	BMAN321	16
ACCS121	16	BMAN221	16		
AGLA121/AGLE121	12				
<b>Total second semester</b>	<b>76</b>	<b>Total second semester</b>	<b>72</b>	<b>Total second semester</b>	<b>64</b>
<b>Total year level 1</b>	<b>140</b>	<b>Total year level 2</b>	<b>132</b>	<b>Total year level 3</b>	<b>124</b>
<b>Total credits for the curriculum</b>					<b>396</b>

### 3.4 SCHOOL OF TECHNOLOGY

The School of Information Technology presents the following programmes on a full-time basis:

Programme: Information Technology  
Programme: Computer and Mathematical Sciences  
Programme: Quantitative Risk Management  
Programme: Financial Mathematics  
Programme: Data Mining

#### 3.4.1 Language medium for teaching-learning

The full-time undergraduate programme in Information Technology is presented in English and in Afrikaans, both with the aid of interpreting services. Examinations, assessments and correspondence may be conducted in English or Afrikaans, according to the preference of the student.

The full-time undergraduate programmes in Computer and Mathematical Sciences, Quantitative Risk Management, Financial Mathematics and Data Mining are presented in English. Examinations, assessments and correspondence will be conducted only in English.

Students may only with the consent of the school directors concerned change from one programme to another, or change the curriculum within the programme for which they are registered.

#### 3.4.2 Curriculums

The curriculums of all the programmes are composed from the list of modules in 2.2.5.

Every year a student registers subject to the rules valid for the specific year. If the curriculum for which a student registered the previous year has been changed in this Calendar, the curriculum of the student will be adapted according to the version in this Calendar. If possible, adaptation will be done in such a way that a student's load of studies will not be aggravated.

If obstacles such as insurmountable clashes in the schedule should arise because of necessary curriculum changes, the Dean may decide that students who enrolled previously must switch to the changed curriculum, even if an aggravation should result.

In the case where students have to repeat one or more modules at a specific year level of a curriculum, the following apply:

- The total number of credits of the modules taken by a student in any semester at any year level, also by the student who has to repeat modules, is limited in accordance with the Academic Rules.
- The Faculty cannot undertake that modules that have to be repeated and the other modules that must be taken will all fit in the class schedule. Clashes that arise because of modules that have to be repeated will result in the student having to take those modules in a future year.
- If a student has not completed the modules of a specific year level of the curriculum for which he/she enrolled in the minimum prescribed period of study, and the modules of the specific year level of the curriculum have since been changed, the Dean may decide that the student must complete the relevant year level as published in the latest edition of the Calendar. This means that if a student must repeat a module that has since been replaced by another module, the Dean may decide that the student must take the latter module.

### **3.4.3 Curriculum: Information Technology N150V**

This curriculum provides a good basic training in Information Technology. In the composition of the curriculum, consideration was given to career opportunities and the human resource needs of our country. This curriculum furthermore prepares the student for postgraduate study (Hons BSc and MSc), and is recommended in view of registration with the South African Council for Scientific Professions (SACSP).

#### **3.4.3.1 Outcomes**

On completion of this curriculum students should:

- a) be able to integrate the basic knowledge and techniques of the curriculum they have completed to investigate situations pertaining to the curriculum and to solve related problems;
- b) contribute in a professional manner and according to modern, acceptable methodologies to the design, development and delivery of computer systems in accordance with business needs and principles;
- c) contribute meaningful to the management of information and information sources on the basis of his knowledge and understanding of appropriate concepts, structures, models, theories, principles and research methods;
- d) solve Information Technology (IT) relevant problems in the context of approaches and techniques of other appropriate disciplines by means of a thorough, practice-directed knowledge of and insight into the field of IT;
- e) realise the necessity to ensure continuing competency and to remain at the forefront of the latest technology and techniques, and as a lifelong student to stay involved with these by means of established and well-developed learning skills;
- f) understand the process of entrepreneurship and to identify, create and make opportunities materialise in practice;
- g) be in a position to continue with postgraduate study.

#### **3.4.3.2 Articulation**

- a) On successful completion of the curriculum, graduates who performed satisfactorily will immediately have access to honours study.
- b) Credit will be given for modules passed in other faculties or at other universities, on condition that such modules contribute to the outcomes and total credit requirements of the relevant curriculum.
- c) With the basic and practical skills in information technology that have been acquired through this curriculum, the student will be equipped to continue with further learning at other institutions

### 3.4.3.3 Other rules

- a) ACCS111 must be taken by students who did not take Accountancy up to grade 12 level. ACCF111 must be taken by students who did have Accountancy up to grade 12 level.
- b) ACCS121 must be taken by students who did not take Accountancy up to grade 12 level. ACCF121 must be taken by students who did have Accountancy up to grade 12 level.

### 3.4.4 The curriculum Information Technology N150V has the following composition:

Year level 1		Year level 2		Year level 3	
First semester		First semester		First semester	
Module code	Cr	Module code	Cr	Module code	Cr
ACCS111 or ACCF111	16	ITRW211	8	ITRW311	16
BMAN111	12	ITRW212	16	ITRW313	8
ITRW112	12	ITRW213	16	ITRW315	8
STTN111	12	ITRW214	16	ITRW316	16
WISN111 or WISN113	12	WVNS211	12	ITRW317	16
<b>Total first semester</b>	<b>64</b>	<b>Total first semester</b>	<b>68</b>	<b>Total first semester</b>	<b>64</b>
Year level 1		Year level 2		Year level 3	
Second semester		Second semester		Second semester	
Module code	Cr	Module code	Cr	Module code	Cr
ACCS121 or ACCF121	16	BMAN222	16	ITRW321	16
AGLA121 or AGLE121	12	ITRW222	16	ITRW322	16
ITRW123	12	ITRW225	16	ITRW324	16
ITRW124	12	WISN223	8	ITRW325	16
STTN121	12	WVNS221	12		
<b>Total second semester</b>	<b>64</b>	<b>Total second semester</b>	<b>68</b>	<b>Total second semester</b>	<b>64</b>
<b>Total year level 1</b>	<b>128</b>	<b>Total year level 2</b>	<b>136</b>	<b>Total year level 3</b>	<b>128</b>
<b>Total credits for the curriculum</b>					<b>392</b>

### 3.4.5 Curriculum: Information Technology Extended Programme N301V

Year level 1		Year level 2		Year level 3		Year level 4	
First semester		First semester		First semester		First semester	
Module code	Cr	Module code	Cr	Module code	Cr	Module code	Cr
BMAN111	12	ACFS111	16	ITRW211	8	ITRW311	16
CTSS111	8	ITRW112	12	ITRW212	16	ITRW313	8
ITSP111	12	ITSP113	16	ITRW213	16	ITRW315	8
STTN111	12	ITSP114	16	ITRW214	16	ITRW316	16
WISS113	12	WISN113	12	WVNS211	12	ITRW317	16
<b>Total first semester</b>	<b>56</b>	<b>Total first semester</b>	<b>72</b>	<b>Total first semester</b>	<b>68</b>	<b>Total first semester</b>	<b>64</b>
Year level 1		Year level 2		Year level 3		Year level 4	
Second semester		Second semester		Second semester		Second semester	
Module code	Cr	Module code	Cr	Module code	Cr	Module code	Cr
AGLA121 or AGLE121	12	ACFS121	16	ITRW222	16	ITRW321	16
ITSP121	12	BMAN222	16	ITRW225	16	ITRW322	16
STTN121	12	ITRW123	12	WISN223	8	ITRW324	16
WISS123	12	ITRW124	12	WVNS221	12	ITRW325	16
<b>Total second semester</b>	<b>48</b>	<b>Total second semester</b>	<b>56</b>	<b>Total second semester</b>	<b>52</b>	<b>Total second semester</b>	<b>64</b>
<b>Total year level 1</b>	<b>104</b>	<b>Total year level 2</b>	<b>128</b>	<b>Total year level 3</b>	<b>120</b>	<b>Total year level 4</b>	<b>128</b>
<b>Total credits for the curriculum</b>							<b>480</b>

### 3.4.6 Curriculum: Computer Science and Statistics N156V

This is the first curriculum of the programme Computer and Mathematical Sciences.

#### 3.4.6.1 Outcomes

The goal of the programme Computer and Mathematical Sciences is to deliver graduates in an outcomes-based programme in the subjects Computer Science, Statistics and Economics. Graduates who have completed this programme will be able to serve nationally as programmers, systems analysts and database administrators. The qualification will equip graduates with degree level expertise and appropriate skills in the field of computer science. A worldwide shortage, especially in South Africa, of well-qualified and equipped human resources exists, especially in the field of mathematics. The programme delivers graduates who have the ability to apply their proficiency in the economic sector of the country.

The graduates who have completed this programme will be able to serve in the financial sector, IT business, industry and education. Depending on their focus within this program, they will be ready to continue postgraduate studies in computer, mathematical and economic sciences.

See paragraph 1.3.1 for admission requirements.

Year level 1		Year level 2		Year level 3	
First semester		First semester		First semester	
Module code	Cr	Module code	Cr	Module code	Cr
AGLA111 or AGLE111	12	ITRW212	16	ITRW311	16
ECON111	12	STTK211	16	ITRW316	16
ITRW112	12	WISN211	8	STTN311	32
STTN111	12	WISN212	8		
WISN111	12	WVNS211	12		
<b>Total first semester</b>	<b>60</b>	<b>Total first semester</b>	<b>60</b>	<b>Total first semester</b>	<b>64</b>
Year level 1		Year level 2		Year level 3	
Second semester		Second semester		Second semester	
Module code	Cr	Module code	Cr	Module code	Cr
AGLA121 or AGLE121	12	ITRW222	16	ITRW321	16
ITRW124	12	STTN221	16	ITRW322	16
STTN121	12	WISN221	8	STTK321	24
ECON121	12	WISN222	8	STTK322	8
WISN121	12	WVNS221	12		
<b>Total second semester</b>	<b>60</b>	<b>Total second semester</b>	<b>60</b>	<b>Total second semester</b>	<b>64</b>
<b>Total year level 1</b>	<b>120</b>	<b>Total year level 2</b>	<b>120</b>	<b>Total year level 3</b>	<b>128</b>
<b>Total credits for the curriculum</b>					<b>368</b>

### 3.4.7 Curriculum: Computer Science and Economics N175V

This is the second curriculum of the programme Computer and Mathematical Sciences.

#### 3.4.7.1 Outcomes

The goal of the programme Computer and Mathematical Sciences is to deliver graduates in an outcomes-based programme in the subjects Computer Science, Statistics and Economics. Graduates who have completed this programme will be able to serve nationally as programmers, systems analysts and database administrators. The qualification will equip graduates with degree level expertise and appropriate skills in the field of computer science. A worldwide shortage, especially in South Africa, of well-qualified and equipped human resources exists, especially in the field of mathematics. The programme delivers graduates who have the ability to apply their proficiency in the economic sector of the country.

The graduates who have completed this programme will be able to serve in the financial sector, IT business, industry and education. Depending on their focus within this program, they will be ready to continue postgraduate studies in computer, mathematical and economic sciences.

See paragraph 1.3.1 for admission requirements.

Year level 1		Year level 2		Year level 3	
First semester		First semester		First semester	
Module code	Cr	Module code	Cr	Module code	Cr
AGLA111 or AGLE111	12	ECON211	16	ECON311	16
ACCS111 or ACCF111	16	ITRW212	16	EKRP311	16
ECON111	12	WISN211	8	ITRW311	16
ITRW112	12	WISN212	8	ITRW316	16
WISN111	12	WVNS211	12		
<b>Total first semester</b>	<b>64</b>	<b>Total first semester</b>	<b>60</b>	<b>Total first semester</b>	<b>64</b>
Year level 1		Year level 2		Year level 3	
Second semester		Second semester		Second semester	
Module code	Cr	Module code	Cr	Module code	Cr
ACCS121 or ACCF121	16	ECON221	16	ECON321	16
AGLA121 or AGLE121	12	ITRW222	16	EKRP321	16
ECON121	12	WISN221	8	ITRW321	16
ITRW124	12	WISN222	8	ITRW322	16
WISN121	12	WVNS221	12		
<b>Total second semester</b>	<b>64</b>	<b>Total second semester</b>	<b>60</b>	<b>Total second semester</b>	<b>64</b>
<b>Total year level 1</b>	<b>128</b>	<b>Total year level 2</b>	<b>120</b>	<b>Total year level 3</b>	<b>128</b>
<b>Total credits for the curriculum</b>					<b>376</b>

### 3.4.8 Curriculum: Quantitative Risk Management N134V

This is the curriculum of the programme Quantitative Risk Management.

#### 3.4.8.1 Outcomes

In addition to the outcomes discussed for the BSc qualification in paragraph 2.2.3 the student will, on successful completion of the curriculum, also have the following specific knowledge and skills:

##### Knowledge

- Functioning of an economy, introductory micro- and macroeconomics, determining the national income and the influence of different policy measures on it, national accountancy concepts and the macro-equilibrium equation, economic conjuncture and stabilisation, transferring funds between countries, exchange rate systems, balance of payment and international monetary system; monetary policy in South Africa.
- The impact of the asset and liability management of banks on the national economy. Risk, liquidity policy, lending policy, liability management and the apportionment of capital by banks, the South African futures market. Functioning of derivative instruments and their application to risk hedging.
- The nature, aim and basic theory of accountancy. Financial statements, fixed assets and depreciation. Control, departmental and manufacturing accounts. Partnerships, close corporations and appropriate GAAP viewpoints.
- Probability theory, sampling theory and techniques, and statistical inference.
- Theory and topology of real numbers and finite dimensional vector spaces, algebraic and measurable spaces, integrals of measurable functions and monotone convergence, linear transformations between general vector spaces, complex functions, ordinary and partial linear differential equations, optimisation.
- Basic computer literacy, object-directed programming language, artificial intelligence, data structures and algorithms, and modern IT developments.

##### Skills

- The ability to identify and solve convergent and divergent quantitative risk management problems in a creative and pro-active manner.
- In-depth knowledge of and insight into the financial markets and financial risk instruments and related problems, together with the ability to solve problems in interaction with other disciplines.
- The ability to identify and develop quantitative financial risk, computer and data analysis techniques and/or approaches on an entrepreneurial basis with a view to managing financial risks.
- The ability to work efficiently as an individual or in a team in an organisation in order to address quantitative financial risk management problems.
- The ability to organise and manage own activities in a responsible and efficient manner to attain desired aims.
- The ability to handle questionnaires, meaningful data collecting methods, data presentation methods and exploratory data evaluation by using amongst others statistical computer software (e.g. Statistica, S-Plus and SAS), as well as standard executive inference methods over wide range.
- The ability to prepare and present written an oral reports and presentations professionally.



- Mathematical modelling of practical problems by using partial differential equations, combinatory mathematics, linear programmes and optimisation methods, together with computerised implementation where applicable.
- Programming in a modern high-level language, together with the ability to analyse and design computer systems and algorithms.
- The ability to handle database management systems with ease.

### 3.4.8.2 Articulation possibilities

The programme grants admission to postgraduate studies in Hons BSc Business Mathematics and Informatics (BMI) programmes and may grant admission to honours studies in Economics, Statistics or Computer Science.

See paragraph 1.3.1 for admission requirements.

Year level 1		Year level 2		Year level 3	
First semester		First semester		First semester	
Module code	Cr	Module code	Cr	Module code	Cr
ACCC111 or ACCF111	16	ECON211	16	BWIA311	24
BMAN111	12	EGRP211	16	EGRP311	16
ECON111	12	STTK211	16	STTN311	32
ITRW112	12	WISN211	8		
STTN111	12	WISN212	8		
WISN111	12	WVES311	12		
<b>Total first semester</b>	<b>76</b>	<b>Total first semester</b>	<b>76</b>	<b>Total first semester</b>	<b>72</b>
Year level 1		Year level 2		Year level 3	
Second semester		Second semester		Second semester	
Module code	Cr	Module code	Cr	Module code	Cr
ACCC121 or ACCF121	16	EGRP221	16	BWIN321	16
AGLE121 or AGLA121	12	STTN221	16	EGRP321	16
BWIN123	12	TGWN222	8	FINM221	16
ECON121	12	WISN222	8	STTK321	24
ITRW123	12	WVES221	12	STTK322	8
STTN121	12				
WISN121	12				
<b>Total second semester</b>	<b>88</b>	<b>Total second semester</b>	<b>60</b>	<b>Total second semester</b>	<b>80</b>
		<b>Year module</b>			
		BWIA271	32		
<b>Total year level 1</b>	<b>164</b>	<b>Total year level 2</b>	<b>168</b>	<b>Total year level 3</b>	<b>152</b>
<b>Total credits for the curriculum</b>					<b>484</b>

### 3.4.9 Curriculum: Financial Mathematics N135V

This is the curriculum of the programme Financial Mathematics.

#### 3.4.9.1 Outcomes

The outcomes are as discussed in paragraph 3.4.5.1.

Year level 1		Year level 2		Year level 3	
First semester		First semester		First semester	
Module code	Cr	Module code	Cr	Module code	Cr
ACCS111 or ACCF111	16	ECON211	16	BWIA311	24
ECON111	12	EKRP211	16	STTN311	32
ITRW112	12	STTK211	16	WISN311	16
STTN111	12	WISN211	8		
WISN111	12	WISN212	8		
		WVES311	12		
<b>Total first semester</b>	<b>64</b>	<b>Total first semester</b>	<b>76</b>	<b>Total first semester</b>	<b>72</b>
Year level 1		Year level 2		Year level 3	
Second semester		Second semester		Second semester	
Module code	Cr	Module code	Cr	Module code	Cr
ACCS121 or ACCF121	16	EKRP221	16	BWIN321	16
AGLE121 or AGLA121	12	STTN221	16	STTK321	24
BWIN123	12	TGWN222	8	STTK322	8
ECON121	12	WISN221	8	WISN321	16
ITRW123	12	WISN222	8		
STTN121	12	WVES221	12		
WISN121	12				
<b>Total second semester</b>	<b>88</b>	<b>Total second semester</b>	<b>68</b>	<b>Total second semester</b>	<b>64</b>
		Year module			
		BWIA271	32		
<b>Total year level 1</b>	<b>152</b>	<b>Total year level 2</b>	<b>176</b>	<b>Total year level 3</b>	<b>136</b>
<b>Total credits for the curriculum</b>					<b>464</b>

### 3.4.10 Curriculum: Data Mining N136V

This is the curriculum of the programme Data Mining.

#### 3.4.10.1 Outcomes

The outcomes are as discussed in paragraph 3.4.5.1.

Year level 1		Year level 2		Year level 3	
First semester		First semester		First semester	
Module code	Cr	Module code	Cr	Module code	Cr
ACCS111 or ACCF111	16	ECON211	16	BWIA311	24
		ITRW212	16	ITRW311	16
ECON111	12	STTK211	16	STTN311	32
ITRW112	12	WISN211	8		
STTN111	12	WISN212	8		
WISN111	12	WVES311	12		
<b>Total first semester</b>	<b>64</b>	<b>Total first semester</b>	<b>76</b>	<b>Total first semester</b>	<b>72</b>
Year level 1		Year level 2		Year level 3	
Second semester		Second semester		Second semester	
Module code	Cr	Module code	Cr	Module code	Cr
ACCS121 or ACCF121	16	ITRW222	16	BWIN321	16
		AGLE121 or AGLA121	12	STTN221	16
BWIN123	12	TGWN222	8	STTK321	24
ECON121	12	WISN222	8	STTK322	8
ITRW124	12	WVES221	12		
STTN121	12				
WISN121	12				
<b>Total second semester</b>	<b>88</b>	<b>Total second semester</b>	<b>60</b>	<b>Total second semester</b>	<b>64</b>
		<b>Year module</b>			
		BWIA271	32		
<b>Total year level 1</b>	<b>152</b>	<b>Total year level 2</b>	<b>168</b>	<b>Total year level 3</b>	<b>136</b>
<b>Total credits for the curriculum</b>					<b>456</b>

### 3.4.11 Curriculum: Data Mining Extended Programme N301V

This is the curriculum of the extended programme Data Mining.

#### 3.4.11.1 Outcomes

The outcomes are as discussed in paragraph 3.4.5.1.

Year level 1		Year level 2		Year level 3		Year level 4	
First semester		First semester		First semester		First semester	
Module code	Cr	Module code	Cr	Module code	Cr	Module code	Cr
ACFS111	16	ECON211	16	EKRP311	16	STTF311	16
CTSS111	8	EKRP211	16	ITRW311	16	STTN311	32
ECON111	12	ITRW212	16	STTK211	16	WVES311	12
ITRW112	12	STTF211	12	WISN211	8		
STTN111	12	WISN111	12	WISN212	8		
WISS111	12						
<b>Total first semester</b>	<b>72</b>	<b>Total first semester</b>	<b>72</b>	<b>Total first semester</b>	<b>64</b>	<b>Total first semester</b>	<b>60</b>
Year level 1		Year level 2		Year level 3		Year level 4	
Second semester		Second semester		Second semester		Second semester	
Module code	Cr	Module code	Cr	Module code	Cr	Module code	Cr
ACFS121	16	BWIN123	12	EKRP321	16	BWIN321	16
AGLA121 or AGLE121	12	EKRP221	16	ITRW321	16	STTF321	16
ECON121	12	ITRW222	16	STTN221	16	STTK321	24
ITRW124	12	STTF221	12	TGWN222	8	STTK322	8
STTN121	12	WISN121	12	WISN221	8	WVES221	12
WISS121	12			WISN222	8		
<b>Total second semester</b>	<b>76</b>	<b>Total second semester</b>	<b>68</b>	<b>Total second semester</b>	<b>72</b>	<b>Total second semester</b>	<b>76</b>
				<b>Year module</b>			
				BWIA271	32		
<b>Total year level 1</b>	<b>148</b>	<b>Total year level 2</b>	<b>140</b>	<b>Total year level 3</b>	<b>168</b>	<b>Total year level 4</b>	<b>136</b>
<b>Total credits for the curriculum</b>							<b>592</b>

## 4 MODULE OUTCOMES

### 4.1 MODULE OUTCOMES: BACHELOR OF COMMERCE

<b>Module code: ACCC111</b>	<b>Semester 1</b>	<b>HEQF level: 5</b>
<b>Title: Framework, Foundations, Cycle and Financial Reporting</b>		
<p><b>Module outcomes:</b> On completion of the module the student should be able to:</p> <ul style="list-style-type: none"> <li>demonstrate a basic knowledge of the principles of the accounting cycle, including the recording of transactions and adjustments, from source documents in the subsidiary journals/ledgers and general ledger of an entity;</li> <li>understand the accounting Framework and the basic elements of financial statements, including their recognition and measurement criteria;</li> <li>prepare a set of basic financial statements, in the correct format, based on the information in a trial balance or general ledger, including basic disclosure in the notes to the financial statements;</li> <li>record transactions incurred by clubs and other non-profit enterprises in the subsidiary ledgers, general ledger and financial statements.</li> </ul>		
<b>Method of delivery:</b> Full-time and part-time		
<b>Assessment modes:</b> Assessment criteria will be provided at the beginning of the semester by means of a working schedule.		
<b>Module code: ACCC121</b>	<b>Semester 2</b>	<b>HEQF level: 5</b>
<b>Title: Accounting for Different Entities</b>		
<p><b>Module outcomes:</b> On completion of the module the student should be able to:</p> <ul style="list-style-type: none"> <li>apply the definitions, recognition and measurement criteria of the different elements of financial statements, as well as the principles regarding the presentation of financial statements to a given situation;</li> <li>distinguish between different entity forms, including sole proprietors, partnerships, companies and close corporations, and account for transactions in the records of each of these entity forms;</li> <li>use information technology effectively in the recording of transactions in the records of an entity;</li> <li>work effectively together with others as part of a team or group.</li> </ul>		
<b>Method of delivery:</b> Full-time and part-time		
<b>Assessment modes:</b> Assessment criteria will be provided at the beginning of the semester by means of a working schedule.		
<b>Module code: ACCC271</b>	<b>Year module</b>	<b>HEQF level: 6</b>
<b>Title: Accounting: Corporate Accounting, Analysis of Financial Statements and Introduction to IFRS and Group Statements</b>		
<p><b>Module outcomes:</b> On completion of the module the student should be able to:</p> <ul style="list-style-type: none"> <li>understand and interpret basic principles of different International Financial Reporting Standards (IFRS) and the interaction between them;</li> <li>analyse and interpret a set of financial statements;</li> <li>perform a very basic consolidation of a parent and one subsidiary;</li> <li>utilise spreadsheets and accounting software to perform calculations and in the preparation of financial statements;</li> <li>organise and manage activities in a responsible and effective manner.</li> </ul>		

<b>Method of delivery:</b> Full-time and part-time		
<b>Assessment modes:</b> Assessment criteria will be provided at the beginning of the semester by means of a working schedule.		
<b>Module code: ACCC371</b>	<b>Year module</b>	<b>HEQF level: 7</b>
<b>Title: Accounting: Complex Corporate Accounting and IFRS</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>• perform a complex consolidation of a parent and one or more subsidiaries;</li> <li>• account for an investment in an associated entity or a joint venture;</li> <li>• prepare a set of financial statements that fully comply with International Financial Reporting Standards (IFRS), including the discussion of the correct accounting treatment of transactions and the recording of transactions;</li> <li>• utilise information technology in the accounting/auditing profession effectively;</li> <li>• identify and solve problems where the response provides evidence of critical and creative thinking;</li> <li>• collect, analyse, organise and evaluate information.</li> </ul>		
<b>Method of delivery:</b> Full-time and part-time		
<b>Assessment modes:</b> Assessment criteria will be provided at the beginning of the semester by means of a working schedule.		
<b>Module code: ACCF111</b>	<b>Semester 1</b>	<b>HEQF level: 5</b>
<b>Title: Financial Accounting: Basic concepts, Accounting Systems and Elementary Financial Reporting</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>• explain the purpose and function of accounting;</li> <li>• demonstrate a clear understanding of the accounting equation;</li> <li>• create journals, ledgers, subsidiary ledgers and control accounts;</li> <li>• design an accounting system that will meet the requirements of a specific entity;</li> <li>• prepare bank reconciliations;</li> <li>• calculate claims against insurers for inventory losses;</li> <li>• record transactions and compile financial statements for sole traders and departmental accounts.</li> </ul>		
<b>Method of delivery:</b> Full-time and part-time		
<b>Assessment modes:</b> Assessment criteria will be provided at the beginning of the semester by means of a working schedule.		
<b>Module code: ACCF121</b>	<b>Semester 2</b>	<b>HEQF: 5</b>
<b>Title: Financial Accounting: Elementary Financial Reporting, Partnerships, Close Corporations and Companies</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>• record transactions and compile the Statement of receipts and payments, Statement of comprehensive income (income statement) and Statement of financial position (balance sheet) for non-trading enterprises;</li> <li>• compile annual financial statements for partnerships;</li> <li>• compile annual financial statements for close corporations in conformity with IFRS;</li> <li>• demonstrate a clear understanding of the different types of company shares, record transactions for the issue and redemption of shares and compile elementary financial statements for companies.</li> </ul>		

<b>Method of delivery:</b> Full-time and part-time		
<b>Assessment modes:</b> Assessment criteria will be provided at the beginning of the semester by means of a working schedule.		
<b>Module code: ACCF211</b>	<b>Semester 1</b>	<b>HEQF level: 6</b>
<b>Title: Financial Accounting: Financial Reporting</b>		
<p><b>Module outcomes:</b> On completion of the module the student should be able to:</p> <ul style="list-style-type: none"> <li>• explain the motivation for establishing a trust; name the parties to a trust; know what the duties and powers of trustees are and how the office of the trustee may be vacated; discuss the rights of the trust beneficiary and know what the remedies are to protect his interest; know the ways in which a trust can be terminated; calculate the tax payable by the trust and place it on record; explain the function of the annual financial statements of a trust and know how to compile the financial statements for presentation to interested parties;</li> <li>• name the duties and powers of the body corporate and trustees as defined in the Sectional Titles Act; compile the annual financial statements of a sectional title entity;</li> <li>• demonstrate his/her knowledge of the accounting standard of which the objective is to create a framework for the preparation and presentation of financial statements;</li> <li>• demonstrate his/her knowledge of International Accounting Standard (IAS) 1 of which the objective is to set out the structure and content of financial statements and the overall requirements for presentation;</li> <li>• demonstrate his/her knowledge of IAS 7 of which the objective is to prescribe the structure and contents of the statement of cash flow;</li> <li>• demonstrate a clear understanding of the disclosure requirements of companies as prescribed by the Companies Act and in accordance with International Financial Reporting Standards (IFRS); compile, analyse and interpret the statement of cash flow;</li> <li>• demonstrate his/her knowledge of IAS 16 of which the objective is to prescribe the accounting treatment for property, plant, and equipment;</li> <li>• identify and analyse financial ratios; explain the use and application of ratios in the analyses and interpretation of an undertaking's liquidity, profitability and solvency; compile a report to interested parties regarding the liquidity, profitability and solvency of the business;</li> <li>• convert incomplete records to proper financial records based on the double entry system; reconstruct the annual financial statements of the business from the information obtained from incomplete records.</li> </ul>		
<b>Method of delivery:</b> Full-time and part-time		
<b>Assessment modes:</b> Assessment criteria will be provided at the beginning of the semester by means of a working schedule.		
<b>Module code: ACCF221</b>	<b>Semester 2</b>	<b>HEQF level: 6</b>
<b>Title: Financial Accounting: Special Topics and Elementary Group Statements</b>		
<p><b>Module outcomes:</b> On completion of the module the student should be able to:</p> <ul style="list-style-type: none"> <li>• demonstrate his/her knowledge of International Accounting Standard (IAS) 2 of which the objective is to prescribe how the cost of inventory is determined and which information is provided in the financial statements;</li> <li>• calculate the cost price and selling price per unit of a manufactured product; record the accounting entries of a manufacturing concern in the journal and ledger, including unrealised profit in completed goods; compile the financial statements of a manufacturing entity;</li> <li>• demonstrate his/her knowledge of IAS 18 of which the objective is to prescribe the accounting treatment for revenue arising from certain types of transactions and events;</li> </ul>		

<ul style="list-style-type: none"> <li>• demonstrate his/her knowledge of IAS 40 of which the objective is to prescribe the accounting treatment for investment property;</li> <li>• demonstrate his/her knowledge of IAS 17 of which the objective is to prescribe, for lessees and lessors, the accounting treatment for finance and operating leases;</li> <li>• explain the purpose of and need for consolidated financial statements; draft pro forma journal entries and consolidated financial statements at the date of acquisition and a few years since the acquisition date; account for intra group transactions relating to unrealised profit in opening and closing inventory, management fees, dividends, loans and interest.</li> </ul>		
<b>Method of delivery:</b> Full-time and part-time		
<b>Assessment modes:</b> Assessment criteria will be provided at the beginning of the semester by means of a working schedule.		
<b>Module code:</b> ACCF 311	<b>Semester</b> 1	<b>HEQF level:</b> 7
<b>Title: Financial Accounting: Group statements and Introduction to International Financial Reporting Standards (IFRS)</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to: <ul style="list-style-type: none"> <li>• execute applicable consolidated accounting entries relating to a parent company and a single subsidiary;</li> <li>• compile consolidated statements of financial position/balance sheet; comprehensive income/income statement; changes in equity, cash flow and notes to the consolidated financial statements relating to a parent and subsidiary;</li> <li>• demonstrate his/her knowledge of the IASB's mission and objectives, the scope of International Financial Reporting Standards (IFRS), due process for developing IFRS and Interpretations, and policies on effective dates, format, and language for IFRS;</li> <li>• demonstrate his/her knowledge of IAS 1 of which the objective is to prescribe the basis for presentation of general purpose financial statements, to ensure comparability both with the entity's financial statements of previous periods and with the financial statements of other entities;</li> <li>• demonstrate his/her knowledge of IAS 12 of which the objective is to prescribe the accounting treatment for income taxes;</li> <li>• demonstrate his/her knowledge of IAS 8 of which the objective is to prescribe the accounting treatment for changes in accounting estimates; changes in accounting policies and the correction of prior period errors;</li> <li>• demonstrate his/her knowledge of IAS 10 of which the objective is to prescribe the accounting treatment for events after the balance sheet date;</li> <li>• demonstrate his/her knowledge of IAS 37 of which the objective is to prescribe the accounting treatment for provisions, contingent liabilities and contingent assets.</li> </ul>		
<b>Method of delivery:</b> Full-time and part-time		
<b>Assessment modes:</b> Assessment criteria will be provided at the beginning of the semester by means of a working schedule.		
<b>Module code:</b> ACCF321	<b>Semester</b> 1	<b>HEQF-level:</b> 7
<b>Title: Financial Accounting: International Financial Reporting Standards (IFRS)</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to: <ul style="list-style-type: none"> <li>• demonstrate his/her knowledge of IAS 18 of which the objective is to prescribe the accounting treatment for revenue arising from certain types of transactions and events;</li> <li>• demonstrate his/her knowledge of IAS 23 of which the objective is to prescribe the accounting treatment for borrowing costs including interest on bank overdrafts and borrowings, amortisation of discounts or premiums on borrowings, amortisation of ancillary costs incurred in the arrangement of borrowings and finance charges on finance leases;</li> </ul>		



<ul style="list-style-type: none"> <li>• demonstrate his/her knowledge of IAS 16 of which the objective is to prescribe the accounting treatment for property, plant, and equipment;</li> <li>• demonstrate his/her knowledge of IAS 36 of which the objective is to ensure that assets are carried at no more than their recoverable amount and to define how recoverable amount is calculated;</li> <li>• demonstrate his/her knowledge of IAS 38 of which the objective is to prescribe the accounting treatment for intangible assets;</li> <li>• demonstrate his/her knowledge of IAS 40 of which the objective is to prescribe the accounting treatment for investment property;</li> <li>• demonstrate his/her knowledge of IAS 17 of which the objective is to prescribe, for lessees and lessors, the accounting treatment for finance and operating leases;</li> <li>• demonstrate his/her knowledge of IAS 33 of which the objective is to prescribe the accounting treatment for earnings per share (EPS) amounts in order to improve performance comparisons between different enterprises, excluding diluted and headline earnings per share.</li> </ul>		
<b>Method of delivery:</b> Full-time and part-time		
<b>Assessment modes:</b> Assessment criteria will be provided at the beginning of the semester by means of a working schedule.		
<b>Module code:</b> ACCS/ACFS111	<b>Semester 1</b>	<b>HEQF level: 5</b>
<b>Title: Financial Accounting(special): Basic Concepts, Accounting Cycle and Accounting Systems</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to: <ul style="list-style-type: none"> <li>• explain the purpose and function of accounting;</li> <li>• demonstrate a clear understanding of the accounting equation;</li> <li>• create journals, ledgers subsidiary ledgers and control accounts;</li> <li>• design an accounting system that will meet the requirements of a specific entity;</li> <li>• record transactions and prepare financial statements of sole traders.</li> </ul>		
<b>Method of delivery:</b> Full-time and part-time		
<b>Assessment modes:</b> Assessment criteria will be provided at the beginning of the semester by means of a working schedule.		
<b>Module code:</b> ACCS/ACFS121	<b>Semester 2</b>	<b>HEQF level: 5</b>
<b>Title: Financial Accounting(special): Bank Reconciliation, Elementary Financial Reporting and Analysis and Interpretation of Elementary Financial Statements</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to: <ul style="list-style-type: none"> <li>• draw up a cash receipts- and payment journal and to prepare a bank reconciliation statement;</li> <li>• prepare a statement of comprehensive income (income statement), statement of financial position (balance sheet) and a statement of changes in equity for sole traders on a generally acceptable format;</li> <li>• identify and explain financial ratios; explain their purpose and use in the analyses of the liquidity, profitability and solvency of a sole trader.</li> </ul>		
<b>Method of delivery:</b> Full-time and part-time		
<b>Assessment modes:</b> Assessment criteria will be provided at the beginning of the semester by means of a working schedule.		

<b>Module code: ACMP311</b>	<b>Semester 1</b>	<b>NQF level: 7</b>
<b>Title: Computer Applications in Auditing</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>• understand the need for access to information;</li> <li>• establish or enhance financial reporting using IT;</li> <li>• understand how IT impacts an accountant's daily functions and routines;</li> <li>• apply appropriate IT systems / tools to business accounting problems (including spreadsheets, CAATS, internet, research);</li> <li>• demonstrate an understanding of business and accounting systems (including accounting packages, LAN's and e-commerce).</li> </ul>		
Method of delivery: Full-time and part-time		
Assessment modes: Assessment criteria will be provided at the beginning of the semester by means of a working schedule.		
<b>Module code: AGLE111</b>	<b>Semester 1</b>	<b>HEQF level: None</b>
<b>Title: Introduction to Academic Literacy</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>• demonstrate basic knowledge of learning strategies, academic vocabulary and register as well as the ability to read and write academic texts to function effectively in the academic environment;</li> <li>• communicate effectively both orally and in writing in an appropriate manner in an academic environment;</li> <li>• understand, interpret, and evaluate basic academic texts and write appropriate academic genres in a coherent manner by making use of accurate and appropriate academic conventions;</li> <li>• listen, speak, read and write accurately, fluently and appropriately in an ethical framework.</li> </ul>		
Method of delivery: Full-time and part-time		
Assessment modes: This is a guideline and can change.		
<b>Module code: AGLE121</b>	<b>Semester 1</b>	<b>HEQF level: 5</b>
<b>Title: Academic Literacy</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>• demonstrate fundamental knowledge of appropriate computer programmes, and also the ability to apply learning, listening, reading and writing strategies, to use academic language register and to read and write academic texts, in order to function effectively in the academic environment;</li> <li>• communicate effectively both in oral and in written format in an ethically responsible and acceptable manner in an academic environment, both as an individual and as a member of a group;</li> <li>• both as an individual and a member of a group, find and collect scientific knowledge in a variety of study fields, analyse, interpret, and evaluate texts, and coherently synthesise and propose solutions in appropriate academic genres by making use of linguistic conventions used in formal language registers.</li> </ul>		
Method of delivery: Full-time and part-time		
Assessment modes: 1X2 1:1 This is a guideline and can change.		

<b>Module code: AUDT211</b>	<b>Semester 1</b>	<b>HEQF level: 6</b>
<b>Title: Auditing: The Auditor and the Audit Process</b>		
<p><b>Module outcomes:</b>  On completion of the module the student should be able to:  Regarding the audit profession in South Africa:</p> <ul style="list-style-type: none"> <li>• explain the need for an audit;</li> <li>• distinguish between the different types of audits and auditors;</li> <li>• understand the difference between the professional and regulatory bodies with regards to the audit profession, as well as the purpose and duties respectively of each body;</li> <li>• discuss the purpose of an audit, general principles relating to the performance of an audit, as well as the degree of assurance that an audit offers to the users of audited information;</li> <li>• discuss the quality control procedures relating to the performance of an audit;</li> <li>• discuss the purpose, structure, content and scope of audit documentation with reference to ISA 230R.</li> </ul> <p>Regarding the audit process:</p> <ul style="list-style-type: none"> <li>• know and discuss the different steps that the audit process consists of;</li> <li>• know and discuss the requirements that each step of the audit process must consist of, as illustrated by the international audit standards;</li> <li>• apply the principles relating to each step of the audit process to a practical case study.</li> </ul> <p>Regarding fraud and error:</p> <ul style="list-style-type: none"> <li>• know the responsibilities of the auditor, specific audit procedures to be performed, as well as the reactions of the auditor with regards to fraud and error as illustrated by ISA 240 (Redrafted);</li> <li>• know and apply the definition of a reportable irregularity to a case study according to the Auditing Profession Act;</li> <li>• know and apply the duties of the auditor with regards to reporting on reportable irregularities according to the requirements of the Auditing Profession Act.</li> </ul>		
<b>Method of delivery:</b> Full-time and part-time		
<b>Assessment modes:</b> Assessment criteria will be provided at the beginning of the semester by means of a working schedule.		
<b>Module code: AUDT221</b>	<b>Semester 2</b>	<b>HEQF level: 6</b>
<b>Title: Auditing</b>		
<p><b>Module outcomes:</b>  On completion of the module the student should be able to:  Understand the functioning of the different operating systems in a business, with specific reference to:</p> <ul style="list-style-type: none"> <li>• the organisational structure and responsibilities of staff members;</li> <li>• source documents used;</li> <li>• flow of information to record transactions;</li> <li>• supervising and control procedures which must be performed.</li> </ul> <p>Apply the procedures which should be performed by the auditor in the verification of the different financial statements items, with specific reference to:</p> <ul style="list-style-type: none"> <li>• the audit objectives;</li> <li>• identification of audit risks;</li> <li>• design of an audit programme;</li> <li>• interpretation of results;</li> <li>• making a conclusion.</li> </ul> <p>Formulate an appropriate audit opinion in the audit report for the users of financial statements.  Know and apply the responsibilities of auditors regarding material irregularities with clients.</p>		

<b>Method of delivery:</b> Full-time and part-time		
<b>Assessment modes:</b> Assessment criteria will be provided at the beginning of the semester by means of a working schedule.		
<b>Module code: AUDT371</b>	<b>Semester 2</b>	<b>HEQF level: 7</b>
<b>Title: Auditing: Company Law Applications and Computer Audit</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to: <ul style="list-style-type: none"> <li>• understand and apply the Companies Act and selected South African Auditing Statements, in all communications;</li> <li>• apply and interpret the knowledge of the technical terms and demonstrate the acquisition of professional communication skills;</li> <li>• analyse and interpret factual auditing situations in financial statements and case studies;</li> <li>• demonstrate skills in problem solving in case studies;</li> <li>• work in groups because practical auditing is done in teams;</li> <li>• know, understand and implement the correct steps in the audit process, in particular regarding the requirements of the Companies Act;</li> <li>• write an audit report after successful completion of the audit;</li> <li>• prepare advice/recommendations on completion of the audit illustrating the acquisition of skills in writing reports, memorandums, audit programmes or audit working papers complying with the desired professional approach.</li> </ul>		
<b>Method of delivery:</b> Full-time and part-time		
<b>Assessment modes:</b> Assessment criteria will be provided at the beginning of the semester by means of a working schedule.		
<b>Module code: BMAN111</b>	<b>Semester 1</b>	<b>HEQF level: 5</b>
<b>Title: Introduction to Business Management</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to: <ul style="list-style-type: none"> <li>• demonstrate a complete and systematic knowledge of the nature of business management, establishment issues of a new business, the different business functions and the basic elements of a business plan;</li> <li>• demonstrate skills, based upon an informed comprehension of theories and concepts, to identify established issues of a new businesses, identify the different business functions and to draw up a basic SWOT analysis and business plan;</li> <li>• undertake a literature and environmental review, prepare a basic report as individual or as a member of a team and communicate in writing as well as verbally the report to a audience.</li> </ul>		
<b>Method of delivery:</b> Full-time and part-time		
<b>Assessment modes:</b> Summative: 1 x 3 hour examination; weight – 50 This is a guideline and can change.		
<b>Module code: BMAN121</b>	<b>Semester 1</b>	<b>HEQF level: 5</b>
<b>Title: General Management</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to: <ul style="list-style-type: none"> <li>• use management in different contexts;</li> <li>• show a management mindset;</li> <li>• report on management and managers in a changing environment;</li> <li>• understand and use the underlying principles of planning;</li> <li>• do organisational design and understand the human resource process;</li> <li>• understand how to lead and remunerate employees;</li> </ul>		

<ul style="list-style-type: none"> <li>• apply the principles of control in a business situation;</li> <li>• apply his/her knowledge in decision-making;</li> <li>• be familiar with the management of change, stress and innovation, motivation, leadership and trust;</li> <li>• participate as part of a team;</li> <li>• evaluate and apply management by objectives;</li> <li>• demonstrate an ethical approach in all operations;</li> <li>• communicate effectively as an individual and in groups;</li> <li>• do at least half of his/her assignments in English – the language of the business world.</li> </ul>		
<b>Method of delivery:</b> Full-time and part-time		
<b>Assessment modes:</b> Summative: 1 x 3 hour examination; weight – 50 This is a guideline and can change.		
<b>Module code: BMAN211</b>	<b>Semester 1</b>	<b>HEQF level: 6</b>
<b>Title: Introduction to Marketing Management</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to: <ul style="list-style-type: none"> <li>• understand the nature of marketing management;</li> <li>• demonstrate an ability to provide an adequate overview of a business's marketing environment;</li> <li>• explain the role of marketing information in the marketing process;</li> <li>• define the concept 'marketing research' accurately;</li> <li>• comment in detail on marketing research as a tool to collect information in order to solve marketing management problems;</li> <li>• discuss consumer behaviour and consumer decision-making adequately;</li> <li>• understand the processes of market segmentation, targeting and positioning;</li> <li>• explain the components of the marketing mix.</li> </ul>		
<b>Method of delivery:</b> Full-time and part-time		
<b>Assessment modes:</b> Formative: Summative: 1 x 3 hour examination; weight – 50 This is a guideline and can change.		
<b>Module code: BMAN212</b>	<b>Semester 1</b>	<b>HEQF level: 6</b>
<b>Title: Entrepreneurial Skills</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to: <ul style="list-style-type: none"> <li>• know how to get access to the resources required for a successful management / entrepreneurship career;</li> <li>• discover opportunities in different industries and fields of study;</li> <li>• discover his/her interests, personality, talents and values and bring in connection with the chosen industry and field of study;</li> <li>• develop a personal development plan with a vision and goals;</li> <li>• plan income and expenses wisely and improve the use of numbers in everyday life;</li> <li>• implement his/her own personal development plan by communicating with various audiences what has been learned, improve functional numeric, receive and give relevant feedback, understand and express himself/herself better, understand his/her emotions, apply self-control, demonstrate good interpersonal skills and effectively use functional business language.</li> </ul>		
<b>Method of delivery:</b> Full-time and Part-time		
<b>Assessment modes:</b> Formative: Summative: 1 x 3 hour examination; weight – 50 This is a guideline and can change.		

<b>Module code: BMAN221</b>	<b>Semester 2</b>	<b>HEQF level: 6</b>
<b>Title: Purchasing Management</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>• provide an overview of purchasing management;</li> <li>• understand how to manage the supply base with special emphasis on the selection of suppliers;</li> <li>• determine the key performance areas of purchasing and supply in terms of cost analysis, inventory management and materials management;</li> <li>• identify the instruments used in managing purchasing and supply and electronic information; and understand the areas of application in purchasing and supply.</li> </ul>		
<b>Method of delivery:</b> Full-time and Part-time		
<b>Assessment modes:</b> Formative: Summative: 1 x 3 hour examination; weight – 50 This is a guideline and can change.		
<b>Module code: BMAN222</b>	<b>Semester 2</b>	<b>HEQF level: 6</b>
<b>Title: Entrepreneurial Opportunities</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>• use the term entrepreneurship in different contexts;</li> <li>• display an entrepreneurial mindset;</li> <li>• report on the elements of entrepreneurship;</li> <li>• understand the functioning of the brain, brain preferences and thinking skills;</li> <li>• manage his/her thoughts and self talk;</li> <li>• identify stumbling blocks and know how to overcome them;</li> <li>• evaluate environments and identify opportunities for creative application in all walks of life;</li> <li>• understand and utilise the characteristics for entrepreneurial success;</li> <li>• use applicable creative techniques to generate ideas and solve problems;</li> <li>• function in idea-generating teams;</li> <li>• demonstrate the use of entrepreneurial language;</li> <li>• display skills imperative to creative entrepreneurial thinking;</li> <li>• plan and execute the initial steps in implementing a solution or project in practice;</li> <li>• demonstrate an ethical approach in all operations;</li> <li>• communicate effectively on a one-to-one basis and in groups.</li> </ul>		
<b>Method of delivery:</b> Full-time and Part-time		
<b>Assessment modes:</b> Formative: 2 - 3 class tests; weight – 35 1 - 2 assignments; weight – 20 1 - 2 other assignments; weight – 15 Summative: 1 x 2 hour examination; weight – 30 This is a guideline and can change.		
<b>Module code: BMAN311</b>	<b>Semester 1</b>	<b>HEQF level: 7</b>
<b>Title: Financial Management</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>• demonstrate a complete and systematic knowledge of financial statements and cash management, fixed assets, analysis of financial management and working capital, time value of money, valuation and the required rate of return, financial decisions and dividend policy;</li> </ul>		

<ul style="list-style-type: none"> <li>demonstrate skills, based upon an informed comprehension of theories and concepts, evaluating and analysing financial statements, calculating all calculations on the time value of money, financial aspects and making decisions based on these results;</li> <li>demonstrate the ability to undertake a literature and environmental review, prepare a basic report on financial issues as individual or as a member of a team and communicate in writing as well as verbally the report to an audience.</li> </ul>		
<b>Method of delivery:</b> Full-time and Part-time		
<b>Assessment methods:</b> Formative: 3 class tests; weight – 35 1 integrated assignment; weight – 10 2 class assignments; weight – 5 Summative: 1 x 3 hour examination; weight – 50.		
<b>Module code: BMAN312</b>	<b>Semester 1</b>	<b>HEQF level: 7</b>
<b>Title: Entrepreneurship</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to: <ul style="list-style-type: none"> <li>understand what entrepreneurs and entrepreneurship entail;</li> <li>utilise the context of entrepreneurship;</li> <li>report on how to go about looking for sustainable ideas;</li> <li>understand and utilise the underlying principles of planning a new business;</li> <li>apply competitive advantage as key success factor;</li> <li>know how to organise a new business;</li> <li>conduct the launch of a new business;</li> <li>apply the principles of management in business situations;</li> <li>apply his/her knowledge in decision-making;</li> <li>be familiar with the management of human resources within a new business;</li> <li>function as part of a team in a meaningful manner;</li> <li>apply some of the most important event factors of entrepreneurship;</li> <li>learn more about the establishment of new businesses by means of the given case studies;</li> <li>demonstrate an ethical approach in all activities;</li> <li>communicate effectively on an individual basis and in group context;</li> <li>carry out at least half of your assignments in English – the language of the world of work and business.</li> </ul>		
<b>Method of delivery:</b> Full-time and Part-time		
<b>Assessment modes:</b> Formative: 2 - 3 class tests; weight – 30 1 - 2 assignments; weight – 15 1 - 2 other assignments; weight – 5 Summative: 1 x 3 hour examination; weight – 50 This is a guideline and can change.		
<b>Module code: BMAN321</b>	<b>Semester 2</b>	<b>HEQF level: 7</b>
<b>Title: Strategic Management</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to: <ul style="list-style-type: none"> <li>demonstrate systematic and theoretical knowledge of the elements that forms part of a strategic plan;</li> <li>demonstrate the skills to identify appropriate business strategies and threats, and opportunities that will contribute to a financial sound business venture;</li> <li>compile and facilitate a strategic business plan.</li> </ul>		

<b>Method of delivery:</b> Full-time and Part-time		
<b>Assessment modes:</b> Formative: 3 class tests; weight – 25 3 assignments, weight –25 Summative: 1 x 3 hour examination; weight - 50		
This is a guideline and can change		
<b>Module code: BMAR211</b>	<b>Semester 1</b>	<b>HEQF level: 6</b>
<b>Title: Services Marketing</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>• demonstrate a complete and systematic knowledge of marketing within a service environment, including service quality, the service delivery process, insights into service customers and their decision-making, an understanding of the different available pricing strategies, as well as integrated service-marketing communications;</li> <li>• demonstrate skills, based on an informed comprehension of theories and concepts, to design and develop a proper service offering, to analyse and identify a pricing strategy relevant to a specific service market, to suggest ways on how to build customer relationships and loyalty, and to recover service failure;</li> <li>• demonstrate the ability to undertake a literature and environmental review of the service environment and prepare a report as individual or as member of a team, and to communicate these results in writing as well as verbally.</li> </ul>		
<b>Method of delivery:</b> Full-time and Part-time		
<b>Assessment modes:</b> Formative: 3 class tests; weight – 30 1 integrated assignment; weight – 20 Summative: 1 x 3 hour examination; weight – 50		
This is a guideline and can change.		
<b>Module code: BMAR221</b>	<b>Semester 2</b>	<b>HEQF level: 6</b>
<b>Title: Consumer Behaviour</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>• demonstrate sound knowledge of consumer behaviour, the consumer as an individual, consumers in their social and cultural settings and the consumer decision-making process;</li> <li>• demonstrate skills, based on the understanding of concepts and theories, to identify the role of the consumer research and market segmentation in consumer behaviour as well as how consumer behaviour influences the marketing environment.</li> </ul>		
<b>Method of delivery:</b> Full-time and Part-time		
<b>Assessment modes:</b> Formative : 3 class tests; weight – 35 2 assignments / homework assignments; weight – 15 Summative: 1 x 3 hour examination; weight – 50		
This is a guideline and can change.		
<b>Module code: BMAR311</b>	<b>Semester 1</b>	<b>HEQF level: 7</b>
<b>Title: Product Decisions</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>• demonstrate a complete and systematic knowledge of the product decisions – the classification of products, new product development, individual and multiple product decisions, product positioning and the product life cycle concept – as an element of the</li> </ul>		



marketing mix; <ul style="list-style-type: none"> <li>• demonstrate skills, based an informed comprehension of theories and concepts, to identify and analyze product related issues in a given case study and to suggest a suitable product strategy to address the product issues a component of the marketing mix;</li> <li>• demonstrate the ability to apply and evaluate the relevant theory and concepts as well as the ability to use the knowledge gained to suggest product strategies as part of the marketing mix decisions to business as an individual or member of a team and to communicate the strategy verbally and in writing.</li> </ul>		
<b>Method of delivery:</b> Full-time and Part-time		
<b>Assessment modes:</b> Formative: 3 class tests; weight – 35 1 integrated assignment; weight – 15 Summative: 1 x 3 hour examination; weight – 50 This is a guideline and can change.		
<b>Module code: BMAR312</b>	<b>Semester 1</b>	<b>HEQF level: 7</b>
<b>Title: Price and Distribution Decisions</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to: <ul style="list-style-type: none"> <li>• demonstrate a complete and systematic knowledge of the importance of price, steps in setting price, determining the final price, designing distribution channels, selecting channels members, logistics management, managing the distribution channel and the behavioural processes in the distribution channels;</li> <li>• demonstrate skills, based upon an informed comprehension of theories and concepts, to price setting, determining a final price and distribution channel design and management;</li> <li>• demonstrate the ability to undertake a literature and environmental review to identify and analyse problems in price setting and distribution management and to come up with solutions to solve the problems by writing reports and us applicable computer software.</li> </ul>		
<b>Method of delivery:</b> Full-time and Part-time		
<b>Assessment modes:</b> Formative: 3 class tests; weight – 35 1 integrated assignment; weight – 15 Summative: 1 x 3 hour examination; weight – 50 This is a guideline and can change.		
<b>Module code: BMAR321</b>	<b>Semester 2</b>	<b>HEQF level: 7</b>
<b>Title: Marketing Research</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to: <ul style="list-style-type: none"> <li>• demonstrate a complete and systematic knowledge of marketing research problem definition, research design, measurement and scaling, questionnaire design, sampling design, fieldwork and data preparation, analysis and report writing;</li> <li>• demonstrate skill, based upon an informed comprehension of theories and concepts, to identify and analyze marketing management problems and suggest solutions to these marketing management problems by designing suitable marketing research projects and successfully reporting on the results of these projects;</li> <li>• demonstrate the ability to undertake a literature and environmental review, plan research project and prepare a research report as individual or as a member of a team and to communicate in writing as well as verbally the research proposal and research report to a professional audience.</li> </ul>		
<b>Method of delivery:</b> Full-time and Part-time		
<b>Assessment modes:</b> Formative: 3 class tests; weight – 35		

1 integrated assignment; weight – 15		
Summative: 1 x 3 hour examination; weight – 50		
This is a guideline and can change.		
<b>Module code: BMAR322</b>	<b>Semester 2</b>	<b>HEQF level: 7</b>
<b>Title: Integrated Marketing Communications</b>		
<b>Module outcomes:</b>		
On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>• demonstrate a complete and systematic knowledge of integrated marketing communications (IMC), IMC advertising tools, promotional tools and integration tools;</li> <li>• demonstrate skills, based on understanding of theories and concepts, to identify and analyze which IMC components will be best suited to different situations by compiling a suitable IMC plan campaign;</li> <li>• demonstrate the ability to undertake a situational review, plan an IMC campaign and prepare a research report as an individual or as a member of a team, as well as to communicate the plan and campaign in writing and verbally to an audience.</li> </ul>		
<b>Method of delivery:</b> Full-time and Part-time		
<b>Assessment modes:</b> Formative: 3 class tests; weight – 35		
1 integrated assignment; weight – 15		
Summative: 1 x 3 hour examination; weight – 50		
This is a guideline and can change.		
<b>Module code: ECON111</b>	<b>Semester 1</b>	<b>HEQF level: 5</b>
<b>Title: Introduction to Economics</b>		
<b>Module outcomes:</b>		
On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>• know how to get access to the resources required for a successful management / entrepreneurship career;</li> <li>• discover opportunities in different industries and fields of study;</li> <li>• discover his/her interests, personality, talents and values and bring in connection with the chosen industry and field of study;</li> <li>• develop a personal development plan with a vision and goals;</li> <li>• plan income and expenses wisely and improve the use of numbers in everyday life;</li> <li>• implement his/her own personal development plan by communicating with various audiences what has been learned, improve functional numeric, receive and give relevant feedback, understand and express himself/herself better, understand his/her emotions, apply self-control, demonstrate good interpersonal skills and effectively use functional business language.</li> </ul>		
<b>Method of delivery:</b> Full-time and Part-time		
<b>Assessment modes:</b> Formative: 2 - 3 class tests; weight – 35		
1 - 2 assignments; weight – 20		
1 - 2 other assignments; weight – 15		
Summative: 1 x 2 hour examination; weight – 30		
This is a guideline and can change.		
<b>Module code: ECON121</b>	<b>Semester 1</b>	<b>HEQF level: 5</b>
<b>Title: Basic Micro- and Macro-economics</b>		
<b>Module outcomes:</b>		
On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>• demonstrate fundamental knowledge and insight into the principles and theories on</li> </ul>		

<p>which microeconomics, macroeconomics and the Simple Macroeconomic Model are based and also to apply concepts and terminology in answering well-defined problems and case-studies;</p> <ul style="list-style-type: none"> <li>• demonstrate fundamental knowledge of the interaction between and interdependence of economic participants and economic indicators;</li> <li>• demonstrate skills to analyse and evaluate case studies, examples and problems on certain macro- and micro-economic phenomena, with reference to demand, supply, equilibrium, consumption, production, price elasticity and various forms of competition;</li> <li>• demonstrate a fundamental understanding of the causes of inflation, unemployment and economic growth and knowledge to recommend policies with regard to these;</li> <li>• demonstrate skills to apply the Simple Macroeconomic Model in economic analyses and predictions;</li> <li>• demonstrate information-gathering and processing skills for writing assignments within the context of micro- and macroeconomics, individually and in groups.</li> </ul>		
<b>Method of delivery:</b> Full-time and Part-time		
<b>Assessment modes:</b> Formative: Summative: 1 x 3 hour examination; weight – 50 This is a guideline and can change.		
<b>Module code: ECON211</b>	<b>Semester 1</b>	<b>HEQF level: 6</b>
<b>Title: Macro-economics</b>		
<p><b>Module outcomes:</b> On completion of the module the student should be able to:</p> <ul style="list-style-type: none"> <li>• analyse the interrelationship relationship between different economic variables in an open economy;</li> <li>• evaluate the effects of various policy steps on the functioning of the economy in the long- and short term;</li> <li>• identify and apply different policy measures to address macro-economic problems.</li> </ul>		
<b>Method of delivery:</b> Full-time and Part-time		
<b>Assessment modes:</b> Formative: Summative: 1 x 3 hour examination; weight – 50 This is a guideline and can change.		
<b>Module code: ECON221</b>	<b>Semester 1</b>	<b>HEQF level: 6</b>
<b>Title: Micro-economics</b>		
<p><b>Module outcomes:</b> On completion of the module the student should be able to:</p> <ul style="list-style-type: none"> <li>• demonstrate a sound knowledge and understanding of relevant terms, rules, concepts, principles and theories to describe microeconomics and its application in the 'real world';</li> <li>• use theory-driven arguments and IT skills to collect, organise, analyse and interpret as individual and/or group, information regarding microeconomic issues;</li> <li>• demonstrate problem solving abilities regarding consumer demand and choices, market structures and the behaviour of competitors, equilibrium analyses, micro-policy, and government intervention in the economy in the form of taxation/subsidisation;</li> <li>• effectively communicate findings and/or solutions, coherently and reliably to an audience of peers and academics, using individual and/or group methods.</li> </ul>		
<b>Method of delivery:</b> Full-time and Part-time		
<b>Assessment modes:</b> The formative and summative assessment methods and -weights will be made available in the study guides and on eFundi.		
<b>Module code: ECON311</b>	<b>Semester 1</b>	<b>HEQF level: 7</b>
<b>Title: Fiscal and Monetary Policy</b>		
<p><b>Module outcomes:</b> On completion of the module the student should be able to:</p>		

<ul style="list-style-type: none"> <li>• demonstrate well-rounded and systematic knowledge of market failure and the role of government in the economy;</li> <li>• demonstrate as an individual and/or part of a group, the practical skills to identify instances of market failure in case studies and to recommend the appropriate forms of government intervention; and</li> <li>• demonstrate the competence to evaluate different forms of government intervention in the economy and to communicate recommendations to policymakers and stakeholders in written reports and oral presentations using the appropriate IT.</li> </ul>		
<b>Method of delivery:</b> Full-time and Part-time		
<b>Assessment modes:</b> The formative and summative assessment methods and -weights will be made available in the study guides and on eFundi.		
<b>Module code: ECON321</b>	<b>Semester 1</b>	<b>HEQF level: 6 7</b>
<b>Title: Economic Analysis</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to: <ul style="list-style-type: none"> <li>• demonstrate well-rounded and systematic knowledge of classical linear regression models and specification testing of regression results;</li> <li>• demonstrate as individual and/or part of a group, the practical skills to estimate and test a regression model with Eviews software, undertake specification testing, including testing for stationarity, structural breaks, multicollinearity, heteroscedasticity and autocorrelation, and to formulate solutions for practical problems in the field of Economic analyses;</li> <li>• demonstrate the competence to identify a research question in the fields of Economics, Risk management or International trade, retrieve relevant information, apply basic statistics and econometric methods to analyse and interpret the research results, and then communicate the findings in an ethically-sound oral presentation using the appropriate IT as well as in a mini-dissertation of 20 pages.</li> </ul>		
<b>Method of delivery:</b> Full-time and Part-time		
<b>Assessment modes:</b> The formative and summative assessment methods and -weights will be made available in the study guides and on eFundi.		
<b>Module code: ECON322</b>	<b>Semester 1</b>	<b>HEQF level: 7</b>
<b>Title: Development Economics</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to: <ul style="list-style-type: none"> <li>• demonstrate well-rounded and systematic knowledge of economic conditions in low- and middle-income economies and the structural characteristics of Least Developed Countries' economies;</li> <li>• apply critical understanding of terms, rules, principles and theories to analyse, interpret and evaluate, as an individual or in groups, economic performance, in low- and middle-income economies, and other economic development issues in order to take part in norm-based arguments;</li> <li>• demonstrate well-developed information retrieval skills, analyse, interpret and evaluate the information to ethically deal with unfamiliar concrete and abstract problems in Development economics;</li> <li>• communicate information in well-structured arguments in written assignments and oral presentations following prescribed formats while using appropriate technology.</li> </ul>		
<b>Method of delivery:</b> Full-time and Part-time		
<b>Assessment modes:</b> The formative and summative assessment methods and -weights will be made available in the study guides and on eFundi.		

<b>Module code: EKIP211</b>	<b>Semester 1</b>	<b>HEQF level: 6</b>
<b>Title: International Trade Relations</b>		
<p><b>Module outcomes:</b> On completion of the module the student should be able to:</p> <ul style="list-style-type: none"> <li>• demonstrate a sound knowledge and understanding of concepts, ideas, theories, principles and rules of the following: international trade relations, the effect of government interference in international trade policies, the different types of trade limitations and enhancements, the impact of trade blocs on world trade, the effect of international trade institutions on world trade, and how businesses can benefit from international trade transactions;</li> <li>• demonstrate the skills to retrieve information identified in order to analyse the composition/classification of countries in terms of world trade as well as their international trade policies;</li> <li>• determine, analyse and apply financing of international trade with regard to exchange rates and a country's balance of payments with a focus on the South African situation;</li> <li>• evaluate South Africa's position in the international trade environment in terms of openness, international trade status, international trade relationships and contribution from the different sectors to international trade;</li> <li>• use knowledge of South Africa's international trade structure and priorities to solve real-world problems and justify findings and proposals with theory-driven arguments;</li> <li>• communicate reports and presentations to lay- and professional audiences individually and/or in groups, by using IT.</li> </ul>		
<b>Method of delivery:</b> Full-time and Part-time		
<b>Assessment modes:</b> The formative and summative assessment methods and -weights will be made available in the study guides and on eFundi.		
<b>Module code: EKIP221</b>	<b>Semester 2</b>	<b>HEQF level: 6</b>
<b>Title: International Trade Finance and Payment</b>		
<p><b>Module outcomes:</b> On completion of the module the student should be able to:</p> <ul style="list-style-type: none"> <li>• distinguish between the different dimensions of financial risk in international trade;</li> <li>• distinguish between the different options to international payment methods and terms;</li> <li>• choose the appropriate payment method and term;</li> <li>• discuss the purpose of export credit insurance and the nature of the industry;</li> <li>• explain the principles underlying export credit insurance, the types of export credit insurance available, the practical aspects surrounding export credit insurance policies, the following up of overdue payments and claiming under export credit insurance;</li> <li>• analyse the cost component of an export quotation and explain export pricing considerations;</li> <li>• describe how to work with foreign currencies and the impact of South African exchange control regulations on international trade transactions;</li> <li>• define and analyse the broad categories of international finance and the finance facilities offered by banks and confirming houses;</li> <li>• discuss the finance facilities offered by Business Partners, Industrial Development Corporations (IDC) and by the South African government.</li> </ul>		
<b>Method of delivery:</b> Full-time and Part-time		
<b>Assessment modes:</b> The formative and summative assessment methods and -weights will be made available in the study guides and on eFundi.		

<b>Module code: EKIP311</b>	<b>Semester 1</b>	<b>HEQF level: 7</b>
<b>Title: International trade Geography</b>		
<b>Module outcomes:</b> Information will be available in 2011		
<b>Method of delivery:</b> Full-time and Part-time		
<b>Assessment modes:</b> The formative and summative assessment methods and -weights will be made available in the study guides and on eFundi.		
<b>Module code: EKIP321</b>	<b>Semester 2</b>	<b>HEQF level: 7</b>
<b>Title: International Business Communication</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>• discuss the many circumstances giving rise to the need to communicate with other parties when transacting business at an international level;</li> <li>• name, and provide practical examples of, the different types of communication (both verbal and non-verbal);</li> <li>• give a detailed description of the components of culture, and illustrate with the help of examples, how cultural differences present one of the key hurdles to effective communication in an international business context;</li> <li>• provide practical guidelines on how best to communicate and, where necessary, negotiate (both verbally and non-verbally) with business people from North America, South America, Asia, Europe and other parts of Africa;</li> <li>• give practical cases involving a breakdown in communication between a South African and a foreign business partner (e.g. importer, agent, licensee, etc.), identify the source of the problem and recommend an appropriate means of getting the business relationship back on track.</li> </ul>		
<b>Method of delivery:</b> Full-time and Part-time		
<b>Assessment modes:</b> The formative and summative assessment methods and -weights will be made available in the study guides and on EFundi.		
<b>Module code: EKR211</b>	<b>Semester 1</b>	<b>HEQF level: 6</b>
<b>Title: Introduction to Risk Management</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>• demonstrate a clear understanding of what risk entails and how to manage risk strategically in a corporate environment in South Africa;</li> <li>• explain why risk management plays an important role in the business environment;</li> <li>• identify and distinguish between various types of risks;</li> <li>• demonstrate both theoretical knowledge and practical application of the risk management process, i.e. the identification, evaluation and control of risk in a variety of scenarios;</li> <li>• demonstrate a clear understanding of the various forms of risk financing strategies, the cost associated with the different strategies and the appropriateness thereof for different risks.</li> </ul>		
<b>Method of delivery:</b> Full-time and Part-time		
<b>Assessment modes:</b> The formative and summative assessment methods and -weights will be made available in the study guides and on EFundi.		

<b>Module code: EKR221</b>	<b>Semester 2</b>	<b>HEQF level: 6</b>
<b>Title: Investment Management</b>		
<p><b>Module outcomes:</b> On completion of the module the student should be able to:</p> <ul style="list-style-type: none"> <li>• demonstrate a solid knowledge of the general principles of Investment management;</li> <li>• explain the required rate of return as investment criterion;</li> <li>• discuss the fundamental principles of investment in terms of risk/return and the time value of money;</li> <li>• explain diversification;</li> <li>• discuss and analyse the investment management process;</li> <li>• discuss the organisation and functioning of security markets;</li> <li>• distinguish between and evaluate the different investment theories;</li> <li>• discuss valuation principles and practices in investment management;</li> <li>• explain and discuss fundamental analysis;</li> <li>• explain and discuss technical analysis;</li> <li>• discuss portfolio management and portfolio evaluation from the perspective of the investment manager.</li> </ul>		
<b>Method of delivery:</b> Full-time and Part-time		
<b>Assessment modes:</b> The formative and summative assessment methods and -weights will be made available in the study guides and on EFundi.		
<b>Module code: EKR311</b>	<b>Semester 1</b>	<b>HEQF level: 7</b>
<b>Title: Bank Risk Management</b>		
<p><b>Module outcomes:</b> On completion of the module the student should be able to:</p> <ul style="list-style-type: none"> <li>• demonstrate a sound and systematic knowledge and understanding of how the Assets and Liabilities Committee (ALCO) manages their assets and liabilities to address banking risks, the role that the management of these financial assets and liabilities plays in the South African economy, as well as the financial and other related risks in a financial institution;</li> <li>• demonstrate well-developed skills to solve problems by strategically managing the process of minimising financial risks, maximising the interest income and equity of financial institutions, and exhibiting a thorough understanding of the regulatory environment in which banks operate;</li> <li>• use individual and group methods to effectively communicate information with regard to bank risk management coherently and reliably in appropriate formats.</li> </ul>		
<b>Method of delivery:</b> Full-time and Part-time		
<b>Assessment modes:</b> The formative and summative assessment methods and -weights will be made available in the study guides and on EFundi.		
<b>Module code: EKR321</b>	<b>Semester 2</b>	<b>HEQF level: 7</b>
<b>Title: Financial Markets</b>		
<p><b>Module outcomes:</b> On completion of the module the student should be able to:</p> <ul style="list-style-type: none"> <li>• demonstrate a well-rounded and systematic knowledge and understanding of the mechanics of the South African Money and Capital Markets, including SAFEX and the Bond Exchange (the Johannesburg Stock Exchange and shares were covered in EKR211), and understand and use the mechanics of the products and instruments, including derivatives, used in these markets and the regulatory environment;</li> <li>• demonstrate the ability to work as an analyst, a market dealer, stock broker and back office official in the banking and treasury environment;</li> </ul>		

<ul style="list-style-type: none"> <li>in unfamiliar concrete and abstract scenarios, apply basic portfolio management using the products and instruments of the above-mentioned markets;</li> <li>work in groups and/or as an individual and effectively communicate information in an ethically-sound manner, using the appropriate IT.</li> </ul>		
<b>Method of delivery:</b> Full-time and Part-time		
<b>Assessment modes:</b> The formative and summative assessment methods and -weights will be made available in the study guides and on EFundi.		
<b>Module code: FINM221</b>	<b>Semester 2</b>	<b>HEQF level: 6</b>
<b>Title: Financial Management: Introduction</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to: <ul style="list-style-type: none"> <li>understand the role of financial management and the financial manager in a business organisation and identify the primary goal of financial management;</li> <li>understand the concept of the time value of money and perform calculations;</li> <li>understand the relationship between risk and return and evaluate the risk and return of organisations based on the necessary calculations;</li> <li>understand the basic accounting statements and concepts and perform an evaluation of financial performance, using financial statement analysis to assess the current financial condition of the firm;</li> <li>demonstrate a knowledge of the characteristics of the principle forms of finance used by companies and the ways in which they may be issued;</li> <li>demonstrate a basic knowledge of the characteristics of financial instruments and how they can be applied by companies to hedge against risk;</li> <li>demonstrate a complete and systematic knowledge of the factors to be considered by a company when deciding on its capital structure;</li> <li>demonstrate the skills to calculate the cost of the different sources of finance and the weighted average cost of capital of a company;</li> <li>understand and apply the various techniques in evaluating capital investment projects.</li> </ul>		
<b>Method of delivery:</b> Full-time and Part-time		
<b>Assessment modes:</b> Assessment criteria will be provided at the beginning of the semester by means of a working schedule.		
<b>Module code: FINM321</b>	<b>Semester 2</b>	<b>HEQF level: 7</b>
<b>Title: Financial Management: Decision Making and Valuations</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to: <ul style="list-style-type: none"> <li>demonstrate an understanding of the primary goal of financial management and the concept of time value of money and the skills to apply time value of money principles to real world problems;</li> <li>demonstrate an understanding of the weighted average cost of capital (WACC) and the ability to calculate the WACC of a company;</li> <li>understand and apply the various techniques in evaluating capital investment projects;</li> <li>evaluate capital investment projects under conditions of inflation and capital rationing;</li> <li>demonstrate a knowledge of the different sources of finance for capital investment projects and make a recommendation based on the discounted cash flow technique;</li> <li>demonstrate an understanding of working capital management including the working capital cycle, working capital policies and working capital financing policies;</li> <li>demonstrate the skills to evaluate accounts receivable management as well as inventory management systems of companies;</li> <li>demonstrate the basic skills to perform a valuation of a company;</li> <li>demonstrate an understanding of the dividend policy of a company.</li> </ul>		



<b>Method of delivery:</b> Full-time and Part-time		
<b>Assessment modes:</b> Assessment criteria will be provided at the beginning of the semester by means of a working schedule.		
<b>Module code:</b> FREB111	<b>Semester 1</b>	<b>HEQF level: 7</b>
<b>Title: Elementary Business French 1</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>• read, write, and understand French in general and particularly in business contexts;</li> <li>• communicate orally and express himself/herself taking into consideration the relevant cultural norms which apply in French-speaking business world;</li> <li>• read important articles relevant to his/her field of expertise and write elementary notes, memoranda and letters.</li> </ul>		
<b>Method of delivery:</b> Contact full-time		
<b>Assessment modes:</b> Formative: Summative: 1 x 3 hour examination; weight – 50		
<b>Module code:</b> FREB121	<b>Semester 2</b>	<b>HEQF level: 7</b>
<b>Title: Elementary Business French 2</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>• read, write and understand French in general and particularly in business contexts;</li> <li>• communicate orally and express himself/herself taking into consideration the relevant cultural norms which apply in the French-speaking business world;</li> <li>• read important articles relevant to his/her field of expertise and write elementary notes, memoranda and letters.</li> </ul>		
<b>Method of delivery:</b> Contact full-time		
<b>Assessment modes:</b> Formative: Summative: 1 x 3 hour examination; weight – 50		
<b>Module code:</b> GERB111	<b>Semester 1</b>	<b>HEQF level: 7</b>
<b>Title: Elementary Business German 1</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>• follow general everyday conversations;</li> <li>• use basic communicative phrases;</li> <li>• apply basic grammar rules;</li> <li>• use relevant vocabulary;</li> <li>• read, understand and translate elementary texts;</li> <li>• write elementary texts (e.g. a CV);</li> <li>• compare the South African and the German societies with reference to housing, transport, economics, society and culture;</li> <li>• handle communication situations with the necessary sensitivity.</li> </ul>		
<b>Method of delivery:</b> Contact full-time		
<b>Assessment modes:</b> Formative: Summative: 1 x 3 hour examination; weight – 50		

<b>Module code:</b> GERB121	<b>Semester</b> 2	<b>HEQF level:</b> 7
<b>Title: Elementary Business German 2</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>• understand and participate in general communication in an office and business environment;</li> <li>• use basic communicative phrases (e.g. to order or buy something, to make travel arrangements, or to make enquiries);</li> <li>• use relevant vocabulary;</li> <li>• read, understand and translate elementary business texts (e.g. agendas, programmes, advertisements, newspaper and journal articles);</li> <li>• write elementary texts (e.g. situation descriptions, informal letters, e-mails to friends);</li> <li>• compare South African and German society in terms of themes such as education, work opportunities, history and political systems.</li> </ul>		
<b>Method of delivery:</b> Contact full-time		
<b>Assessment modes:</b> Formative: Summative: 1 x 3 hour examination; weight – 50		
<b>Module code:</b> IAUD211	<b>Semester</b> 1	<b>HEQF level:</b> 6
<b>Title: Internal auditing: Role of the Internal Auditor</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>• demonstrate his/her ability to discuss the history and development of internal auditing and define the purpose, authority and responsibility of internal audit activities;</li> <li>• demonstrate a clear understanding of the relationship between internal auditing and other related concepts, for example external auditing, the audit committee and board of directors;</li> <li>• demonstrate a basic knowledge and application of the provisions regarding corporate governance contained in the King Report;</li> <li>• describe the internal control environment of an organisation and the related internal control systems, including policies and procedures;</li> <li>• evaluate the effectiveness of an internal control environment;</li> <li>• distinguish between the different stages of the internal audit process.</li> </ul>		
<b>Method of delivery:</b> Full-time and Part-time		
<b>Assessment modes:</b> Assessment criteria will be provided at the beginning of the semester by means of a working schedule.		
<b>Module code:</b> IAUD221	<b>Semester</b> 2	<b>HEQF level:</b> 6
<b>Title: Internal auditing: Planning of Internal Audit Process</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>• demonstrate his/her ability to plan and conduct internal audit activities;</li> <li>• demonstrate an ability to assess the risk for internal audit engagements;</li> <li>• demonstrate his/her ability to incorporate risk in the internal audit plan, including the formulation of internal audit procedures based on the risk identified;</li> <li>• compile internal audit procedures, including audit objectives and scope.</li> </ul>		
<b>Method of delivery:</b> Full-time and Part-time		
<b>Assessment modes:</b> Assessment criteria will be provided at the beginning of the semester by means of a working schedule.		

<b>Module code: IAUD321</b>	<b>Semester 2</b>	<b>HEQF level: 7</b>
<b>Title: Internal auditing: Fieldwork and Finalisation Phases of the Internal Audit Process</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to: <ul style="list-style-type: none"> <li>• demonstrate his/her ability to generate internal audit working papers;</li> <li>• demonstrate an ability to utilise data gathering tools, including interviewing, questionnaires and checklists;</li> <li>• demonstrate his/her ability to utilise statistical sampling methods, including ACL;</li> <li>• describe process mapping, including flowcharting;</li> <li>• communicate findings to management, including report writing;</li> <li>• demonstrate the ability to interpret findings and perform follow-up review procedures.</li> </ul>		
<b>Method of delivery:</b> Full-time and Part-time		
<b>Assessment modes:</b> Assessment criteria will be provided at the beginning of the semester by means of a working schedule.		
<b>Module code: IOPS111</b>	<b>Semester 1</b>	<b>HEQF level: 5</b>
<b>Title: Introduction to Industrial Psychology</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to: <ul style="list-style-type: none"> <li>• demonstrate knowledge of, and insight into the core areas of Industrial Psychology, including career prospects, roles, functions and competencies of registered counsellors and psychometrists and psychologists;</li> <li>• define and describe the role and the use of the principles of Industrial Psychology;</li> <li>• analyse the biological bases of behaviour, which include cognitive abilities, memory, learning and motivation;</li> <li>• analyse the social bases of behaviour, which includes interpersonal interaction like attitude, emotions, values and leadership.</li> </ul>		
<b>Method of delivery:</b> Contact, full-time and part-time		
<b>Assessment modes:</b> Formative: 3 large scheduled tests; weight – 100 Summative: 1 x 2 hour examination; weight – 50		
<b>Module code: IOPS121</b>	<b>Semester 2</b>	<b>HEQF level: 5</b>
<b>Title: Career Health and Ergonomics</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to: <ul style="list-style-type: none"> <li>• demonstrate knowledge of the nature and importance of a safe and healthy work environment that enhances the quality of the work life of employees;</li> <li>• show insight into the problems that workers experience regarding safety, health, quality of work life and the human-technology interaction;</li> <li>• demonstrate knowledge of the application of ergonomics by designing models to fit body posture, the office/work environment, designing for special populations and the practical application of the models by means of the ergonomics checklist;</li> <li>• demonstrate knowledge of the connection between work and psychological well being (e.g. Psychological adjustment);</li> <li>• know the determinants and causes of work maladjustment and the implications thereof for safety;</li> <li>• demonstrate knowledge of the types of work dysfunctions and other work-related and organisational maladjustments;</li> <li>• demonstrate knowledge of the ways in which organisations should go about to ensure a safe and healthy work environment conducive to improving the quality of work life;</li> </ul>		

<ul style="list-style-type: none"> <li>demonstrate knowledge of the most important provisions of the Occupational Health and Safety Act (Act 85 of 1993) in maintaining safe and healthy work environments.</li> </ul>		
<b>Method of delivery:</b> Contact, full-time and part-time		
<b>Assessment modes:</b> Formative: 3 large scheduled tests; weight – 100 Summative: 1 x 3 hour examination; weight – 50		
<b>Module code: IOPS211</b>	<b>Semester 1</b>	<b>HEQF level: 6</b>
<b>Title: Personnel Psychology</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to: <ul style="list-style-type: none"> <li>show knowledge of the changing nature of work and how this will affect the application of psychological principles in decision-making;</li> <li>analyse and apply different types of criteria/standards as it pertains to decision-making for people at work in a fair and equitable way;</li> <li>evaluate/assess the quality of and applicability of different psychological predictors;</li> <li>apply the correct problem solving method such as the development, appraisal and motivation of people at work.</li> </ul>		
<b>Method of delivery:</b> Contact, full-time and part-time		
<b>Assessment modes:</b> Formative: 3 large scheduled tests; weight – 100 Summative: 1 x 2 hour examination; weight – 50		
<b>Module code: IOPS221</b>	<b>Semester 2</b>	<b>HEQF level: 6</b>
<b>Title: Career Psychology</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to: <ul style="list-style-type: none"> <li>evaluate the implications of the changing organisation for careers using various theories of career choice/development and counselling in solving career related problems;</li> <li>identify different life/career stages and the methods that can be used in dealing with career issues;</li> <li>assess different effects of career experiences on employees and all aspects of career management support.</li> </ul>		
<b>Method of delivery:</b> Contact, full-time and part-time		
<b>Assessment modes:</b> Formative: 3 large scheduled tests; weight – 100 Summative: 1 x 2 hour examination; weight – 50		

<b>Module code: IOPS311</b>	<b>Semester 1</b>	<b>HEQF level: 7</b>
<b>Title: Organisational Psychology</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>• explain the research, theories and approaches regarding organisational behaviour, stress, motivation, job satisfaction, leadership, group behaviour, organisation politics, conflict, decision-making, communication and organisation architecture;</li> <li>• show sensitivity for individual, group and organisational problems at national and international level;</li> <li>• demonstrate skills to diagnose individual, group and organisation problems and identify opportunities to intervene or refer to other professionals;</li> <li>• advise relevant parties on solutions and to facilitate such solutions;</li> <li>• explain the competencies of an organisation development consultant;</li> <li>• diagnose the changes that have an influence on individuals, groups and organisations</li> <li>• explain the management of change;</li> <li>• use skills to make an organisation diagnoses;</li> <li>• show an understanding of elementary organisation development interventions.</li> </ul>		
<b>Method of delivery:</b> Contact, full-time and part-time		
<b>Assessment modes:</b> Formative: 3 large scheduled tests; weight – 10 Summative: 1 x 3 hour examination; weight – 50		
<b>Module code: IOPS321</b>	<b>Semester 2</b>	<b>HEQF level: 7</b>
<b>Title: Psychometry and Research Methodology</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>• show an understanding of psychological measurement, its ethics and requirements;</li> <li>• apply psychometrical techniques;</li> <li>• evaluate different psychometrical techniques and select techniques that can be used in all fairness in a given situation;</li> <li>• show an understanding of the nature and measurement of intelligence, interest and personality;</li> <li>• interpret psychological protocols;</li> <li>• show an understanding of the nature of research, quantitative and qualitative approaches as well as the research process (i.e. literature review, data collection methods, sampling techniques, hypotheses, research objectives, reliability and validity)</li> <li>• demonstrate knowledge to plan an elementary research project;</li> <li>• apply knowledge of the use of the American Psychological Association (APA) referencing technique.</li> </ul>		
<b>Method of delivery:</b> Contact, full-time and part-time		
<b>Assessment modes:</b> Formative: 4 large scheduled tests; weight – 60 4 assignments; weight – 40 Summative: 1 x 3 hour examination; weight – 50		
<b>Module code: ITRW112</b>	<b>Semester 1</b>	<b>HEQF level: 5</b>
<b>Title: Introduction to Programming</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>• demonstrate knowledge of the different components of the computer, an information system and programming languages and their uses. The student will also have acquired knowledge of the utilization and use of spreadsheets. The student will have knowledge of</li> </ul>		

<p>spreadsheets, which includes tables, computations, transfer of data between different applications and application environments, functions and graphs to process and present data;</p> <ul style="list-style-type: none"> <li>• demonstrate the ability to solve problems by analyzing and implementing structured programming techniques, data manipulation and data representation, event-driven applications in the spreadsheet developments environment;</li> <li>• proof insight into the ethical issues of the broader IT-world and be aware of the risks and dangers that challenge the IT-world;</li> <li>• demonstrate communication skills in writing a report after a project is completed.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment modes:</b> Summative: 1 x 3 hour examination; weight – 50 This is a guideline and can change.		
<b>Module code:</b> ITRW123	<b>Semester</b> 2	<b>HEQF level:</b> 5
<b>Title:</b> Graphical Interface Programming I		
<p><b>Module outcomes:</b> On completion of the module the student should be able to:</p> <ul style="list-style-type: none"> <li>• demonstrate knowledge to write a computer program that requires theoretical foreknowledge;</li> <li>• solve problems by applying theoretical foreknowledge;</li> <li>• demonstrate that he/she has sufficient foreknowledge and insight into the graphical interface environment to develop computerized systems in a object-oriented computer language;</li> <li>• demonstrate an understanding and the ability to implement the repeat, conditional and sequential structures;</li> <li>• aspects like graphical interface design, event-driven programming procedures and object oriented programming as a basis have been established.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment modes:</b> Summative: 1 x 3 hour examination; weight – 50 This is a guideline and can change.		
<b>Module code:</b> ITRW211	<b>Semester</b> 1	<b>HEQF level:</b> 6
<b>Title:</b> Graphical Interface Programming II		
<p><b>Module outcomes:</b> On completion of the module the student should be able to:</p> <ul style="list-style-type: none"> <li>• demonstrate a solid knowledge of multi-threading, string processing, databases, data structures and sets and show intelligent insight into the theory of graphical programming interfaces;</li> <li>• design systems that is directed to industry and is user friendly and apply professional and ethical codes;</li> <li>• identify problems, critically analyze them and suggest solutions by designing and developing computer applications with the emphasis on user friendly interfaces;</li> <li>• demonstrate the ability to communicate/demonstrate solutions/programmes as individual or in a group by using applicable academic/professional oral or written reasoning.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment modes:</b> Summative: 1 x 3 hour examination; weight – 50 This is a guideline and can change.		

<b>Module code: ITRW213</b>	<b>Semester 1</b>	<b>HEQF level: 6</b>
<b>Title: Systems Analysis and Design I</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>demonstrate sufficient knowledge and insight into project management techniques and apply the phases and techniques of the system development life cycle when the system is planned, analysed and developed;</li> <li>demonstrate that he/she can correctly apply and use the phases and techniques of a project as individual or in a group, manage a practical project by applying project management techniques, think and behave in a innovative and creative way when a computerized system is designed and developed;</li> <li>successfully write reports of projects and present it orally;</li> <li>apply a professional attitude towards clients and use computer resources ethically and responsible when they create, complete and deliver IT projects.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment modes:</b> Summative: 1 x 3 hour examination; weight – 50 This is a guideline and can change.		
<b>Module code: ITRW225</b>	<b>Semester 2</b>	<b>HEQF level: 6</b>
<b>Title: Systems Analysis and Design II</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>demonstrate sufficient knowledge and insight into project management techniques and the phases of the system life cycle to apply when a system is designed and implemented;</li> <li>demonstrate that he/she can correctly apply and use the phases and techniques of a project as individual or in a group, manage a practical project by applying project management techniques, will think and behave in a innovative and creative way when a computerized system is designed and developed;</li> <li>successfully write reports of projects and present it orally;</li> <li>apply a professional attitude towards clients and use computer resources ethically and responsible when they create, complete and deliver IT projects.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment modes:</b> Summative: 1 x 3 hour examination; weight – 50 This is a guideline and can change.		
<b>Module code: ITRW311</b>	<b>Semester 1</b>	<b>HEQF level: 7</b>
<b>Title: Data Bases I</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>apply a rounded and systematically knowledge and insight of entity relation modelling; normalization of database tables; write SQL and PL/SQL statements; apply procedures to design databases and retrieve information to solve known and abstract computer problems within the database environment.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment modes:</b> Summative: 1 x 3 hour examination; weight – 50		

<b>Module code: ITRW321</b>	<b>Semester 2</b>	<b>HEQF level: 7</b>
<b>Title: Data Bases II</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>• apply a rounded and systematically knowledge and insight of transaction management, management of simultaneous use, distributed databases management systems and database administration as an individual or in a group, applied on the administration of databases to solve known and abstract computer problems within the database environment.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Module code: JUR111</b>	<b>Semester 1</b>	<b>HEQF level: 5</b>
<b>Title: Introduction to Law</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to demonstrate:		
<ul style="list-style-type: none"> <li>• a fundamental knowledge of the science of law with specific reference to: the concept of law; basic legal concepts and processes; information retrieving skills; sources of law; the basic court structure; constitutional developments; classification of the various legal disciplines and professions; and professional and ethical issues;</li> <li>• the ability to retrieve information from various sources and to integrate findings in the formulation of ethically sound and value-based solutions in elementary problem solving;</li> <li>• an ability to apply knowledge, basic principles, theories, legal terminology, concepts and conventions to the formulation of solutions in elementary problem solving, individually and in groups;</li> <li>• the ability to communicate effectively in writing and orally.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment methods:</b> PC 3 hours 1:1		
<b>Module code: JUR112</b>	<b>Semester 1</b>	<b>HEQF level: 5</b>
<b>Title: Language Skills in Legal Context</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to demonstrate:		
<ul style="list-style-type: none"> <li>• a fundamental knowledge and an informed understanding of the legal communication process and the different components that play a role during this process;</li> <li>• successful communication through different mediums of reporting (i.e. writing and speaking) in Afrikaans and English at a fundamental level of fluency in both languages;</li> <li>• successful understanding, extrapolation and/or interpretation of written and oral messages within a legal context;</li> <li>• see an apply basic reasoning principles in order to argue a point of view successfully.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment methods:</b> PC 3 hours 1:1		
<b>Module code: JUR113</b>	<b>Semester 1</b>	<b>HEQF level: 5</b>
<b>Title: History of Law</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>• demonstrate fundamental knowledge with reference to the external foundations of South African law as well as the internal foundations of the South African law of procedure, law of succession, public law, law of persons and the family;</li> </ul>		



<ul style="list-style-type: none"> <li>individually and within a group, apply the above knowledge to the analysis of sets of facts, both routine and unfamiliar but derived from real-life situations and the formulation or adaptation of solutions;</li> <li>gather, interpret and synthesis information regarding the history of law and communicate it coherently based on sound academic and ethical principles.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment methods:</b> PC 3 hours 1:1		
<b>Module code:</b> JURI114	<b>Semester 1</b>	<b>HEQF level: 5</b>
<b>Title: Law of Persons and Juristic Persons</b>		
<b>Module outcomes:</b>		
On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>demonstrate a fundamental knowledge of the law of persons and juristic persons, with special reference to the legal subjectivity of natural and juristic persons, and an informed understanding of the important terms, rules, concepts, general principles and theories;</li> <li>apply the above knowledge to the analysis of given sets of facts and the formulation of solutions or adaptations to solutions, individually and in groups;</li> <li>communicate the results of elementary (literature) research and problem-solving coherently and reliably befitting the ethics of the law, orally and/or in writing.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment methods:</b> PC 3 hours 1:1		
<b>Module code:</b> JURI121	<b>Semester 2</b>	<b>HEQF level: 5</b>
<b>Title: Indigenous Law</b>		
<b>Module outcomes:</b>		
On completion of the module the student should be able to :		
<ul style="list-style-type: none"> <li>demonstrate a fundamental knowledge of the terms, concepts, principles, aspects, and theories underpinning Indigenous Law, and particularly of the most important rules of African indigenous law;</li> <li>individually and within groups, compare the content and application of African indigenous legal rules with rules in other legal systems;</li> <li>demonstrate an ability to gather information an aspect identified from the field of Indigenous Law;</li> <li>apply his/her knowledge of Indigenous Law to analyze sets of facts and propose solutions individually or in a group.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment methods:</b> PC 3 hours 1:1		

<b>Module code: JURI122</b>	<b>Semester 2</b>	<b>HEQF level: 5</b>
<b>Title: Legal Skills</b>		
<b>Module outcomes:</b>		
On completion of the module the student should be able to demonstrate:		
<ul style="list-style-type: none"> <li>• a fundamental knowledge and informed understanding of the coherence of the LLB curriculum with its concomitant;</li> <li>• a legal terminology in the context of oral and written communication;</li> <li>• basic and appropriate numeracy, accounting and computer skills needed in legal practice;</li> <li>• basic research skills as necessitated by legal practice;</li> <li>• critical analytical, evaluative and logical cognitive skills necessary for legal argumentation;</li> <li>• the value these legal skills have for the legal profession, by means of examples from practice;</li> <li>• the ability to identify and motivate the use of specific skills in well-defined routine legal situations.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment methods:</b> PC 3 hours 1:1		
<b>Module code: JURI123</b>	<b>Semester 2</b>	<b>HEQF level: 5</b>
<b>Title: Contemporary Foundations of South Africa Law</b>		
<b>Module outcomes:</b>		
On completion of the module the student should be able to :		
demonstrate fundamental knowledge with reference to the internal foundations of the South African Law of Property, Law of Delict and law of contract, so as to:		
<ul style="list-style-type: none"> <li>• discuss the different aspects of the internal foundations of South African law coherently, integrated, and with an informed understanding, as well as;</li> <li>• analyze sets of facts, both familiar and unfamiliar, and apply this knowledge in the formulation of solutions;</li> <li>• present the facts in writing using basic conventions of legal discourse.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment methods:</b> PC 3 hours 1:1		

<b>Module code: JURI124</b>	<b>Semester 2</b>	<b>HEQF level: 5</b>
<b>Title: Contemporary Foundations of South Africa Law</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to demonstrate:		
<ul style="list-style-type: none"> <li>• a fundamental knowledge and informed understanding of the law of succession, with special reference to:</li> <li>• the basic terminology, concepts, rules and principles of the testate and intestate law of succession;</li> <li>• the common law and statutory position with regard to testate and intestate succession;</li> <li>• the most recent and modern developments with regard to the law of succession;</li> <li>• the ability to use his/her knowledge of the law of succession (and their basic research skills) to solve well-defined problems within a familiar context;</li> <li>• the ability to identify and evaluate a change to a problem and to respond to that change in order to solve the adjusted problem;</li> <li>• the ability to coherently communicate information using basic conventions suitable to legal discourse.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment methods:</b> PC 3 hours 1:1		
<b>Module code: JURI211</b>	<b>Semester1</b>	<b>HEQF level:6</b>
<b>Title: Criminal Law: General Principles</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to demonstrate:		
<ul style="list-style-type: none"> <li>• a solid knowledge base of the general principles of Criminal Law with specific reference to: <ul style="list-style-type: none"> <li>▪ the place of Criminal Law in the legal system;</li> <li>▪ the history and sources of Criminal Law;</li> <li>▪ theories of punishment;</li> <li>▪ the general elements of a crime;</li> <li>▪ participation in crime;</li> <li>▪ attempt, conspiracy and incitement;</li> </ul> </li> <li>• a sound understanding of the house style in writing, key terms, procedures, formats and conventions, theories and principles in reasoning and problem solving;</li> <li>• problem solving skills through critical analysis, information retrieval, evaluation of gathered information and the formulation and presentation of possible solutions of well-defined but unfamiliar problems;</li> <li>• the ability to communicate information coherently befitting this level of study, in writing and orally by means of appropriate technologies, ethically sound and value-based.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment methods:</b> PC 3 hours 1:1		
<b>Module code: JURI213</b>	<b>Semester 1</b>	<b>HEQF level: 6</b>
<b>Title: Criminal Procedure</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to demonstrate:		
<ul style="list-style-type: none"> <li>• a solid knowledge and sound understanding of: the terminology, principles and procedures of the Law of Criminal Procedure, with special reference to:</li> <li>• the course of a criminal matter in the broad sense;</li> <li>• the values pertaining to the law of criminal procedure;</li> <li>• the criminal courts and their jurisdiction;</li> </ul>		

<ul style="list-style-type: none"> <li>principles pertaining to prosecutions and the roles of other state officials;</li> <li>pre-trial criminal procedure;</li> <li>bail and alternatives thereto;</li> <li>indictment and charge sheets.</li> <li>the ability to effectively select and apply the relevant legal rules and principles in order to solve well-defined but unfamiliar factual and legal problems using the correct procedure and appropriate evidence;</li> <li>the ability to relate information and solutions coherently and clearly, using professional formats, including the drafting of documents relevant during the criminal trial;</li> <li>the ability to communicate solutions with appropriate technologies to lay academic professional audiences, ethically sound and value-based.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment methods:</b> PC 3 hours 1:1		
<b>Module code:</b> JURI214	<b>Semester 1</b>	<b>HEQF level: 6</b>
<b>Title: Constitutional Law</b>		
<p><b>Module outcomes:</b></p> <p>On completion of the module the student should be able to:</p> <ul style="list-style-type: none"> <li>demonstrate a solid knowledge base of Constitutional Law and its main constituting fields as well as the competency to analyze real-world scenarios (well-defined but unfamiliar problems in known/familiar contexts) emerging from problematic South African structural Constitutional Law issues;</li> <li>determine a lack in information pertaining to problematic issues, to plan elementary research in this regard, to obtain access to relevant resources and to gather appropriate information;</li> <li>integrate information gained and propose creative solutions by using common terms/terminology, doctrines, underpinning and established theories and principles, relating concepts, processes, procedures and techniques in Constitutional Law appropriately, and to manage an academic-professional discourse verbally or/and in writing to discuss problematic issues coherently;</li> <li>communicate/present solutions to professional and lay (peer) audiences, individually or in groups, by making use of applicable IT equipment, acceptable formats based on specific conventions illustrating the ability of an awareness of cognate fields/areas.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment methods:</b> PC 3 hours 1:1		
<b>Module code:</b> JURI215	<b>Semester 1</b>	<b>HEQF level: 6</b>
<b>Title: Entrepreneurial Law</b>		
<p><b>Module outcomes:</b></p> <p>On completion of the module the student should be able to :</p> <ul style="list-style-type: none"> <li>demonstrate a well-rounded and systematic knowledge of Entrepreneurial Law with special reference to the principles governing the law of partnerships, business trusts, companies and closed corporations;</li> <li>correctly apply the terms and terminology pertaining to Entrepreneurial Law, including the concept of juristic personality in the entrepreneurial environment against the background of the law of contract in written and oral communication;</li> <li>analyze concepts common to entrepreneurial law and apply the principles in a real business environment factual situations;</li> <li>solve problems in a properly motivated way by analyzing factual situations against the principles of Entrepreneurial Law as found in relevant common law, applicable case law and legislative provisions;</li> <li>coherently and logically present solutions to cases in Entrepreneurial Law relating to</li> </ul>		

associated fields of law based on sound ethical and value-based principles, during contact sessions, class test and in the examinations.		
<b>Method of delivery:</b> Full-time		
<b>Assessment methods:</b> PC 3 hours 1:1		
<b>Module code:</b> JURI216	<b>Semester 1</b>	<b>HEQF level: 6</b>
<b>Title: Family Law</b>		
<b>Module outcomes:</b>		
On completion of the module the student should be able to demonstrate:		
<ul style="list-style-type: none"> <li>• a solid knowledge of the nature and contents of Family Law with specific reference to:</li> <li>• the legal requirements for marriage;</li> <li>• the invariable consequences of marriage;</li> <li>• the variable consequences of marriage;</li> <li>• legal prescripts relating to divorce and the personal and patrimonial consequences of divorce; and the parent-child relationship;</li> <li>• analyze any selected set of facts, retrieve additional information when and/or where necessary, from applicable resources to contribute to the draft of a solution;</li> <li>• evaluate information and formulate a possible solution according to expectations at this level incorporating the house style, accepted conventions and format, to solve the problem;</li> <li>• communicate solutions orally and in writing, individually or in groups.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment methods:</b> PC 3 hours 1:1		

<b>Module code:</b> JURI217	<b>Semester 1</b>	<b>HEQF level: 6</b>
<b>Title: Interpretation of Statutes</b>		
<b>Module outcomes:</b>		
On completion of the module the student should be able to demonstrate:		
<ul style="list-style-type: none"> <li>• demonstrate a thorough knowledge of the nature and contents of Family Law with specific reference to:</li> <li>• the legal requirements for marriage;</li> <li>• the invariable consequences of marriage;</li> <li>• the variable consequences of marriage;</li> <li>• legal prescripts relating to divorce and the personal and patrimonial consequences of divorce;</li> <li>• the parent-child relationship;</li> <li>• analyze any selected set of facts, retrieve additional information when and/or where necessary, from applicable resources to contribute to the draft of a solution;</li> <li>• evaluate information and formulate a possible solution according to expectations at this level incorporating the house style, accepted conventions and format, to solve the problem;</li> <li>• communicate solutions orally and in writing, individually or in groups.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment methods:</b> PC 3 hours 1:1		
<b>Module code:</b> JURI221	<b>Semester 2</b>	<b>HEQF level: 6</b>
<b>Title: Criminal Law: Specific Crimes</b>		
<b>Module outcomes:</b>		
On completion of the module the student should be able to :		

<ul style="list-style-type: none"> <li>demonstrate a thorough knowledge base of Criminal Law with special reference to the principles governing a selection of specific crimes against the state, personal and bodily freedom or integrity and crimes against property;</li> <li>apply the terminology specific to Criminal Law correctly and in context in written and oral presentations;</li> <li>analyze crimes, in terms of common or statutory Criminal Law and select and apply the relevant statutory and common law rules and principles by means of which the state may convict and punish perpetrators for the unlawful, blameworthy acts or omissions that constitute specific crimes in context, in sets of fact;</li> <li>solve problems by analyzing sets of facts and formulate solutions with reference to applicable case law and legislative provisions;</li> <li>present own points of view in class during group discussions and/or presentations in a coherent and logical way with evidence of a sound ethical and value-based approach.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment methods:</b> PC 3 hours 1:1		
<b>Module code:</b> JURI223	<b>Semester</b> 2	<b>HEQF level:</b> 6
<b>Title:</b> Criminal Procedure		
<b>Module outcomes:</b> On completion of the module the student should be able to demonstrate: <ul style="list-style-type: none"> <li>a solid knowledge and sound understanding of the terminology, principles and procedures of the Law of Criminal Procedure, with special reference to the criminal trial, which spans from the plea stage up to the exhaustion of appeal and review possibilities;</li> <li>the ability to effectively select and apply the relevant legal rules and principles in order to solve well-defined but unfamiliar factual and legal problems using the correct procedure and with appropriate evidence;</li> <li>the ability to relate and integrate information in solutions coherently and clearly, using professional formats, including the drafting of relevant documents during the criminal trial;</li> <li>the ability to communicate effectively in writing and orally, based on expected legal argumentation and discourse underlined in ethically sound and value driven</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment methods:</b> PC 3 hours 1:1		
<b>Title:</b> Labour Law		
<b>Module outcomes:</b> On completion of the module the student should be able to: <ul style="list-style-type: none"> <li>demonstrate a well-rounded and systematic knowledge base of Labour Law with special reference to the principles governing the contract of employment; procedures required by legislative provisions, the individual and collective labour relationships and the influence of the constitution on these fields;</li> <li>solve problems by analyzing sets of facts, identify the sources of Labour Law applicable to a specific scenario, gather information and apply/integrate information coherently in the formulation of solutions with reference to an own argument/motivation to applicable Case Law and legislative provisions;</li> <li>present own points of view in class and in group discussions in written and oral presentations in a coherent and logical, ethically sound and value-based manner.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment methods:</b> PC 3 hours 1:1		

<b>Module code: JURI225</b>	<b>Semester 2</b>	<b>HEQF level: 6</b>
<b>Title: Law of Delict</b>		
<b>Module outcomes:</b> Upon completion of the module the student should be able to demonstrate: <ul style="list-style-type: none"> <li>• a solid knowledge of the principles of the Law of Delict, circumstances under which delicts and delictual liability may arise, the requirements for the establishment and termination of delictual liability and the different legal remedies available within the private law and new constitutional dispensation;</li> <li>• an understanding of the relationship and interaction between the Law of Delict and the ability to draw from other areas of the law such as criminal law;</li> <li>• the ability to solve practical and elementary/basic systematic fashion by analyzing the problem, information retrieval, evaluation of the information gathered and the integration of the information in a possible/proposed solution;</li> <li>• the ability to communicate solutions in writing and orally to academic-professionals and peers aided by selected technologies, legal argumentation and discourse based on ethically sound and value-driven principles.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment methods:</b> PC 3 hours 1:1		
<b>Module code: JURI226</b>	<b>Semester 2</b>	<b>HEQF level: 6</b>
<b>Title: Law of Property</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to demonstrate a solid knowledge base of the Law of Property, with special reference to: <ul style="list-style-type: none"> <li>• the relationship between persons and assets according to the nature of an asset and the origin, consequences and termination of each relationship;</li> <li>• the requirements for the acquisition, consequences and protection of ownership, possession and real rights;</li> <li>• the protection of property as a fundamental right;</li> <li>• the ability to effectively select and apply the approach to a well-defined but unfamiliar problem, in order to solve the problem through the use of relevant knowledge, correct procedures and appropriate evidence;</li> <li>• the ability to critically analyze information and effectively and coherently communicate information;</li> <li>• the ability to act in an ethically sound and value-based manner in all operations.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment methods:</b> PC 3 hours 1:1		
<b>Module code: JURI313</b>	<b>Semester 1</b>	<b>HEQF level: 7</b>
<b>Title: Jurisprudence</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to demonstrate: <ul style="list-style-type: none"> <li>• a well-rounded and systematic knowledge base of the terminology of Jurisprudence and different theoretical approaches to the law and legal studies, with special reference to:             <ul style="list-style-type: none"> <li>▪ western jurisprudential traditions;</li> <li>▪ twentieth century jurisprudential debates;</li> <li>▪ current jurisprudential issues;</li> </ul> </li> <li>• the ability to critically compare different viewpoints and formulate his/her own ideas on the issues;</li> </ul>		

<ul style="list-style-type: none"> <li>the ability to retrieve information identified as necessary to solve a problem or to analyze and evaluate issues or topics in Jurisprudence;</li> <li>the ability to communicate solutions to problems and to effectively communicate his/her views and ideas in various ways.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment methods:</b> PC 3 hours 1:1		
<b>Module code:</b> JURI315	<b>Semester 1</b>	<b>HEQF level: 7</b>
<b>Title: Law of Contract</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to demonstrate: <ul style="list-style-type: none"> <li>a well-rounded and systematic knowledge with specific reference to the legal principles relating to the law of contract;</li> <li>the ability to analyze sets of facts and apply the knowledge, to formulate possible solutions;</li> <li>the ability to research the law, evaluate the possible solutions and formulate the best integrated solution to a particular problem;</li> <li>the ability to communicate the law, and its application to different factual situations, in writing or orally, with reference to the necessary authority.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment methods:</b> PC 3 hours 1:1		
<b>Module code:</b> JURI327	<b>Semester 2</b>	<b>HEQF level: 7</b>
<b>Title: Law of Specific Contracts</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to demonstrate: <ul style="list-style-type: none"> <li>a detailed and systematic knowledge of the following specific agreements: <ul style="list-style-type: none"> <li>sale;</li> <li>credit;</li> <li>sale of land;</li> <li>surety;</li> <li>lease;</li> </ul> </li> <li>a detailed and coherent understanding of the legal terminology and legal principles relating to these specific contracts;</li> <li>the ability to analyze sets of facts and apply the knowledge to formulate possible solutions;</li> <li>the ability to research the law, evaluate the possible solutions and formulate the best integrated solution to a particular problem;</li> <li>the ability to communicate the law and its application to different factual situations, in writing or orally, with reference to the necessary authority.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment methods:</b> PC 3 hours 1:1		
<b>Module code:</b> KCOM226	<b>Semester 2</b>	<b>HEQF level: 6</b>
<b>Title: Effective Communication</b>		
<b>Module outcomes:</b> On completion of the module, the student should be able to: <ul style="list-style-type: none"> <li>communicate audibly (voice and speech), understandably (language use, organisation and audience adapting) and with conviction (non-verbal communication);</li> </ul>		



<ul style="list-style-type: none"> <li>know the theoretical guidelines for effective spoken communication and reproduce these clearly and explicitly during presentations;</li> <li>know and reproduce the theoretical guidelines for the successful writing of reports and memo's so well (choice of words, sentences, format, medium, expression) that he/she will be able to apply these in practice in his/her specific field.</li> </ul>		
<b>Method of delivery:</b> Full-time and Part-time		
<b>Assessment modes:</b> Formative: Will be communicated in writing to students at the start of the semester Summative: 1 x 3 hour examination; weight – 50		
<b>Module code: LARM111</b>	<b>Semester 1</b>	<b>HEQF level: 5</b>
<b>Title: Introduction to Workplace Relations</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to: <ul style="list-style-type: none"> <li>demonstrate knowledge of, insight into the terminology, core principles and theories, and background of Industrial Sociology as it is applied in business;</li> <li>demonstrate a fundamental knowledge and insight of the study field of Industrial Sociology;</li> <li>describe the role of the worker and organisations as part of the broader society and show an understanding of the inter-relationship between business and the community;</li> <li>demonstrate the ability to collect information regarding the responsibility of people and the community.</li> </ul>		
<b>Method of delivery:</b> Contact, full-time and part-time		
<b>Assessment modes:</b> Formative: 3 large scheduled tests; weight - 100 Summative: 1 x 3 hour examination; weight – 50		
<b>Module code: LARM211</b>	<b>Semester 1</b>	<b>HEQF level: 6</b>
<b>Title: Career Management</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to: <ul style="list-style-type: none"> <li>demonstrate an informed comprehension of the challenges in occupations, motivation to work, conflict between occupations and role theory;</li> <li>display a fundamental knowledge of how an organisation structure can influence a business;</li> <li>analyse, interpret and relay unknown problems related to mobility;</li> <li>understand stratification and the working of the organisation on different levels;</li> <li>evaluate socio-demographic and economic trends which can affect work wellness.</li> </ul>		
<b>Method of delivery:</b> Contact, full-time and part-time		
<b>Assessment modes:</b> Formative: 3 large scheduled tests; weight – 100 Summative: 1 x 3 hour examination; weight – 50		

<b>Module code: LARM221</b>	<b>Semester 2</b>	<b>HEQF level: 6</b>
<b>Title: Work-group Dynamics</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>demonstrate knowledge of, and insight into the terminology, core principles and theories, and background of Work-group dynamics as it is applied in groups within the workplace;</li> <li>display an in-depth knowledge and understanding of the structure, significance and functions of different groups as sub-systems in interaction within the workplace;</li> <li>work in groups to address and analyse problems in well-defined groups situations and report the findings in an assignment conforming to Labour Relations Management format.</li> </ul>		
<b>Method of delivery:</b> Contact, full-time and part-time		
<b>Assessment modes:</b> Formative: 3 large scheduled tests; weight – 100 Summative: 1 x 3 hour examination; weight – 50		
<b>Module code: LARM311</b>	<b>Semester 1</b>	<b>HEQF level: 7</b>
<b>Title: Theory and Practice of Labour Relations</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>show insight into and knowledge of labour relations concepts; modalities that influence the regulation of labour relations; tripartite relationships; industrial democracy, participation and representation, development of labour relations in South Africa;</li> <li>display an in-depth knowledge and understanding of legislation, labour unions, collective bargaining and the way all of these aspects influence the labour environment;</li> <li>know and understand the dynamics of strikes, reasons for strikes, representation of labourers at an organisation level by means of forums and future labour relations development;</li> <li>reveal knowledge on managing labour relations effectively in businesses/organisations.</li> </ul>		
<b>Method of delivery:</b> Contact, full-time and part-time		
<b>Assessment modes:</b> Formative: 3 large scheduled tests; weight – 100 Summative: 1 x 3 hour examination; weight – 50		
<b>Module code: LARM321</b>	<b>Semester 2</b>	<b>HEQF level: 7</b>
<b>Title: Management of Labour Relations</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>demonstrate a sound and systematic knowledge of labour relations management;</li> <li>display comprehension of the various aspects of the law of contract that applies to the contract of employment;</li> <li>demonstrate knowledge of labour legislation and the enforcement thereof;</li> <li>master the implementation and management of labour relations in the workplace;</li> <li>relay and criticise the South African mechanism for the settlement of labour disputes</li> <li>function effectively in groups;</li> <li>apply ethical principles in labour relations.</li> </ul>		
<b>Method of delivery:</b> Contact, full-time and part-time		
<b>Assessment modes:</b> Formative 3 large scheduled tests; weight – 100 Summative: 1 x 3 hour examination; weight – 50		

<b>Module code: LARM322</b>	<b>Semester 2</b>	<b>HEQF level: 7</b>
<b>Title: Conflict Management</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>demonstrate knowledge of, and insight into the terminology, core principles and theories, and background of Conflict as it is applicable to groups within the workplace;</li> <li>display an in-depth knowledge and understanding the importance of utilising appropriate management skills to deal with conflict within the workplace;</li> <li>evaluate conflict participants, address and analyse conflict in well-defined situations and report the findings and suggest ways of solving/managing the conflict in an assignment conforming to Labour Relations Management formats.</li> </ul>		
<b>Method of delivery:</b> Contact, full-time and part-time		
<b>Assessment modes:</b> Formative: 3 large scheduled tests; weight – 100 Summative: 1 x 3 hour examination; weight – 50		
<b>Module code: MACC211</b>	<b>Semester 1</b>	<b>HEQF level: 6</b>
<b>Title: Management accounting: Cost terms, -elements and –systems.</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>demonstrate a sound knowledge and understanding of the subject management or management accounting and to become familiar with the cost terms and concepts which are applicable to managerial accounting;</li> <li>demonstrate your ability to deal with material and labour costs in manufacturing organisations as well as overhead cost;</li> <li>demonstrate a sound knowledge and understanding of how to deal with overhead cost, as part of product cost (manufacturing cost) and as period cost (non-manufacturing costs);</li> <li>demonstrate a sound knowledge and understanding of cost and income statements in organisations and how to determine the net income for a period after determining the cost of goods manufactured and cost of goods sold;</li> <li>demonstrate a sound knowledge and understanding, and your ability to design a job-order costing system for an organisation and to apply as to the organisation's needs;</li> <li>demonstrate a sound knowledge and understanding of a process costing system. You should also be able to determine the cost price per unit completed, based on the three cost elements namely direct material, direct labour and manufacturing overhead on a individual base, as well as a preparation of a cost and production report by making use of the weighted-average- and the first-in-first-out (FIFO) method where normal and abnormal spoilage occur.</li> </ul>		
<b>Method of delivery:</b> Full-time and Part-time		
<b>Assessment modes:</b> Assessment criteria will be communicated at the beginning of the semester via the working schedule.		
<b>Module code: MACC221</b>	<b>Semester 2</b>	<b>HEQF level: 6</b>
<b>Title: Management Accounting: Cost Behaviour Patterns and Decision-making Techniques</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>do a cost estimation by using a cost equation, and to prepare an income statement by using the contribution format;</li> <li>understand the relationship between cost, volume and profit and the application of this relationship in decision-making;</li> </ul>		

<ul style="list-style-type: none"> <li>• become aware of the cost-volume-profit relationships when multiple products are dealt with in organisations, and the relevant information to take note of when decision-making occurs;</li> <li>• allocate joint costs to products, account for by-products, and make decisions as to whether a product should be further processed or terminated;</li> <li>• allocate service department costs by using the most appropriate allocation bases and allocation method for the service department cost;</li> <li>• apply linear programming as a technique for decision-making in organisations.</li> </ul>		
<b>Method of delivery:</b> Full-time and Part-time		
<b>Assessment modes:</b> Assessment criteria will be communicated at the beginning of the semester via the working schedule.		
<b>Module code: MACC311</b>	<b>Semester 1</b>	<b>HEQF level: 6</b>
<b>Title: Management Accounting: Planning and Control</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to: <ul style="list-style-type: none"> <li>• demonstrate knowledge and insight of the ethics of the management accountant in exercising his / her responsibility in an organisation;</li> <li>• demonstrate knowledge and insight of the planning process and to prepare short term and long term budgets for an organisation;</li> <li>• prepare flexible budgets for various activity levels of an organisation, and to analyse and interpret cost variances for controlling purposes;</li> <li>• demonstrate knowledge and insight of standard costing as cornerstone of budgeting, and to analyse and interpret standard cost variances;</li> <li>• demonstrate knowledge and insight of direct and absorption costing systems used for internal and external reporting purposes;</li> <li>• demonstrate knowledge and insight in segmental reporting and transforming pricing.</li> </ul>		
<b>Method of delivery:</b> Full-time and Part-time		
<b>Assessment modes:</b> Assessment criteria will be communicated at the beginning of the semester via the working schedule.		
<b>Module code: MBXR217</b>	<b>Semester 1</b>	<b>HEQF level: (6)7</b>
<b>Title: Sport Management</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to: <ul style="list-style-type: none"> <li>• apply applicable factual knowledge with regard to management tasks in sport;</li> <li>• know, interpret and reflect the various definitions with regard to sport management;</li> <li>• interpret and reflect management communication skills practically;</li> <li>• understand and develop a financial management system of a sport club.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment modes:</b> Assessment criteria will be provided at the beginning of the semester by means of a working schedule.		
<b>Module code: MBXR218</b>	<b>Semester 1</b>	<b>HEQF level: (6)7</b>
<b>Title: Sport Commercialization, Sport Development and Sport Law</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to: <b>(Sport commercialization)</b> <ul style="list-style-type: none"> <li>• understand and explain the definition of sport commercialization;</li> <li>• analyse, understand and apply strategic marketing management;</li> <li>• develop and implement a sport marketing plan in full;</li> </ul>		

<ul style="list-style-type: none"> <li>determine and understand the different behaviour patterns in sport consumers;</li> <li>define, understand and explain market segmentation as well as strategies and techniques, the sport product, promotions, retail and price strategies and apply it effectively;</li> </ul> <p><b>(Sport development)</b></p> <ul style="list-style-type: none"> <li>manage facilities for the development of sport;</li> <li>plan, work out and apply a complete session with children;</li> <li>establish a club;</li> <li>understand the sport structures in South Africa;</li> </ul> <p><b>(Sport law)</b></p> <ul style="list-style-type: none"> <li>apply law enforcement on sport, taking general-, criminal-and civil law into consideration;</li> <li>understand the establishment and compilation of constitutions regarding clubs/associations/unaffiliated associations according to law;</li> <li>know the legal aspects concerning injuries between two or more parties during matches, disciplinary processes as well as persons responsible during events/tournaments;</li> <li>reflect knowledge and fully understand trademarks, and related legal aspects for instance copy right, patents, law as well as ethical concepts;</li> <li>employ a person according to legal guidelines on labour relations, and compile a contract in line with these specifications.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment modes:</b> Assessment criteria will be provided at the beginning of the semester by means of a working schedule.		
<b>Module code: MBXR219</b>	<b>Semester 1</b>	<b>HEQF level: 5b(6)</b>
<b>Title: Sport Organization and Administration</b>		
<p><b>Module outcomes:</b> On completion of the module the student should be able to:</p> <ul style="list-style-type: none"> <li>integrate complete knowledge and skills of human movement with the principles of recreation and adventure practices applicable to sport, health and human development in the acquisition of applied skills by problem solving, executing of projects, dealing with true-life case studies and practice-centred scenarios;</li> <li>link evidence-driven interpretation through analysis, synthesis and evaluation to research results by founding it theoretically and effectively communicate it individually or in a group in writing by means of Information Technology and verbally to laymen and professional audiences;</li> <li>demonstrate that in reaching outcomes, reasoning and communication are based on a pure world and life philosophy and an established value system.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment modes:</b> Assessment criteria will be provided at the beginning of the semester by means of a working schedule.		
<b>Module code: MLAW111</b>	<b>Semester 1</b>	<b>HEQF level: 5</b>
<b>Title: Introduction to Business and Contract Law</b>		
<p><b>Module outcomes:</b> On completion of the module the student should be able to:</p> <ul style="list-style-type: none"> <li>demonstrate a general knowledge of the general principles of the law of contract and the general principals of business law;</li> <li>apply the principles in a basic case study and make a recommendation;</li> <li>identify and solve a basic legal problems;</li> <li>logically and systematically formulate and argue a legal point of view;</li> <li>show insight in the connection between different aspects of the law of contracts and</li> </ul>		

business law.		
<b>Method of delivery:</b> Full-time and Part-time		
<b>Assessment modes:</b> Assessment criteria will be communicated at the beginning of the semester via the working schedule.		
<b>Module code:</b> MLAW121	<b>Semester 2</b>	<b>HEQF level: 5</b>
<b>Title: Mercantile Law: Business forms</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to show the theoretical and practical knowledge of the law regarding the different forms of enterprises by: <ul style="list-style-type: none"> <li>• demonstrating a sound knowledge and insight of the law regarding partnership, close corporations and certain aspects of the company law;</li> <li>• analyzing case studies and providing legal advice;</li> <li>• applying the applicable legal rules or norms regarding the different forms of enterprises to the establishment thereof, membership requirements, internal and external relationships;</li> <li>• applying the rules in the practise.</li> </ul>		
<b>Method of delivery:</b> Full-time and Part-time		
<b>Assessment modes:</b> Assessment criteria will be communicated at the beginning of the semester via the working schedule.		
<b>Module code:</b> MLAW211	<b>Semester 1</b>	<b>HEQF level: 6</b>
<b>Title: Mercantile Law: Advanced Mercantile Law</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to: <ul style="list-style-type: none"> <li>• demonstrate a complete theoretical and practical knowledge of the law regarding the general principles and administration of companies and demonstrate an ability to apply in case studies the relevant statutory and common law principals – with specific reference to: corporate functionaries, capacity and representation, offer of shares for subscription and sale, share capital, majority rule and minor protection, company financial statements, auditors, company groups, reorganizations and arrangements, judicial management and winding up of companies and close corporations.</li> </ul>		
<b>Method of delivery:</b> Full-time and Part-time		
<b>Assessment modes:</b> Assessment criteria will be communicated at the beginning of the semester via the working schedule.		
<b>Module code:</b> PETH211	<b>Semester 1</b>	<b>HEQF level: 6</b>
<b>Title: Professional Ethics for Accountants</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to: <ul style="list-style-type: none"> <li>• demonstrate a fundamental knowledge and understanding of world views and ideologies by analysing, synthesising and a critique of <ul style="list-style-type: none"> <li>▪ the nature and function of, as well as the similarities and differences between world views and ideologies;</li> <li>▪ different important contemporary manifestations of these views;</li> <li>▪ the influence of these views on issues of our time and world (including poverty, change, human rights, HIV-AIDS, power abuse, corruption, scholarship, etc.);</li> </ul> </li> <li>• demonstrate understanding for the interrelatedness of phenomena and of natural and social systems;</li> <li>• articulate a personal world view and a coherent own view about some of the core issues and problems of our time;</li> <li>• analyse and evaluate real life problems and case studies and argue and give feasible</li> </ul>		

<p>answers to these problems from an own established world view;</p> <ul style="list-style-type: none"> <li>• report on his/her knowledge and viewpoints in a typical academic manner;</li> <li>• illustrate a sound introductory understanding of the ethical dimension of individual and social life experiences within the context of cultural diversity;</li> <li>• understand and explain the virtue theory and deontological an utilitarian ethics and the relevance thereof for business and professional ethics on basic level;</li> <li>• demonstrate his/her ability to apply ethical decision-making strategies, for instance, case studies;</li> <li>• show an understanding of the classical liberal approach to the role of business and government in society as well as the basic principles of a fair tax system;</li> <li>• show a sound introductory understanding of selected socio-economic ethical issues applicable to business and in professional practice and understand and explain it;</li> <li>• show an introductory understanding of selected issues and approaches in Business Ethics in South Africa and internationally;</li> <li>• have basic knowledge and understanding of corporate control in South Africa including organisations and conformation;</li> <li>• place in ethical perspective the knowledge and basic skills with reference to the nature of organisations and management and demonstrate the ability to link these skills and knowledge with appropriate case studies;</li> <li>• identify the fundamental ethical principles, as per the SAICA Professional Code of Conduct, that are applicable to a Chartered Accountant in Public Practice as well as in Business;</li> <li>• identify the threats that could exist for the compliance of the fundamental ethical principles of a Chartered Accountant as per the guidance in the Professional Code of Conduct of SAICA and evaluate the significance of these threats;</li> <li>• put safeguards in place to eliminate the threats or reduce it to an acceptable level as per the guidance given in the Professional Code of Conduct of SAICA;</li> <li>• understand the general ethical guidance to Chartered Accountants as members of SAICA;</li> <li>• understand and practically apply the Corporate Governance principles regarding Directors, Audit Committees and Internal Audit as per the King Code III;</li> <li>• understand the basic principles of ethics;</li> <li>• understand the importance of the ethical dimension of decision making;</li> <li>• understand why the moral status and obligations of corporations have become prominent;</li> <li>• understand and apply the relevance of ethics in the business world;</li> <li>• understand and apply professional ethical values.</li> </ul>		
<b>Method of delivery:</b> Full-time and Part-time		
<b>Assessment modes:</b> Assessment criteria will be communicated at the beginning of the semester via the working schedule.		
<b>Module code:</b> PSDT111	<b>Semester</b> 1	<b>NQF level:</b> 5
<b>Title:</b> Professional Skills Development		
<p><b>Module outcomes:</b></p> <p>On completion of the module the student should be able to:</p> <ul style="list-style-type: none"> <li>• demonstrate personal attributes, such as self-management, taking responsibility and being motivated;</li> <li>• know and demonstrate insight into the role of group dynamics, demonstrate an ability to work in a group, lead a group and manage diversity;</li> <li>• demonstrate an ability to manage change;</li> <li>• demonstrate the ability to do career planning and understand the chosen career environment.</li> </ul>		
<b>Method of delivery:</b> Full-time and Part-time		

<b>Assessment modes:</b> Assessment criteria will be communicated at the beginning of the semester via the working schedule.		
<b>Module Code: PSYC121</b>	<b>Semester 2</b>	<b>HEQF level: 5</b>
<b>Title: Social and Community Psychology</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>demonstrate a fundamental knowledge of and insight into the perspectives and theories on which Social and Community Psychology is based and demonstrate an informed comprehension of the concepts and terminologies as to apply it to well-defined problems or case studies like poverty, constant change, human rights, abuse of power, corruption, racism, xenophobia, etc, within a multicultural context and an insight into their interdependence;</li> <li>demonstrate skills of obtaining and assimilating information to write assignments within the context of Social and Community Psychology in individual or in group context;</li> <li>analyse and evaluate case studies, examples of problem situations and solutions, individually or in group context, and to reproduce these in the form of a report or consignment, verbally or written, within the prescribed conventions and formats;</li> <li>demonstrate a vested conduct and ethical system towards people.</li> </ul>		
<b>Method of delivery:</b> Contact, full-time and part-time		
<b>Module Code: PSYC211</b>	<b>Semester 1</b>	<b>HEQF level: 6</b>
<b>Title: Development Psychology</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>form a thorough base of knowledge of the physical, cognitive, social, moral and personality development of people in each stage of the life cycle;</li> <li>demonstrate thorough understanding of viewpoints about human nature, concepts, theories and fundamental terminology used in Development Psychology as to communicate reliable, coherent and ethically correct information via assessment assignments;</li> <li>critically evaluate, analyse and synthesise information about human development as to solve simulated problems, individually or in groups;</li> <li>demonstrate a thorough understanding of academic discourses regarding the impact of diverse contexts like poverty, malnutrition, overpopulation, geographical circumstances, discrimination and inadequate social and physical stimulation on human development.</li> </ul>		
<b>Method of delivery:</b> Contact, full-time and part-time		
<b>Module Code: PSYC212</b>	<b>Semester 1</b>	<b>HEQF level: 6</b>
<b>Title: Personality Psychology</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>demonstrate fundamental knowledge with relevant insight of different, meta-theoretical reality and life standpoints, relevant to human functioning and personality thought frameworks, for example the psychodynamics, humanistic and eco-systematic;</li> <li>explain and reason about the content and applicability of personality theories and Personality Psychology, substantiate it at the hand of suitable literature and communicate verbally and in writing through the integration of the basis of scientific methods and ethical principles;</li> <li>analyse well-defined, upcoming, real problems, situations and case studies by using the most relevant procedures and techniques, specific to Personality Psychology to explain and compare the behaviour from the personality theories, reason about possible</li> </ul>		



solutions and reproduce in a logical and coherent report.		
<b>Method of delivery:</b> Contact, full-time and part-time		
<b>Module Code: PSYC221</b>	<b>Semester 2</b>	<b>HEQF level: 6</b>
<b>Title: Positive Psychology</b>		
<p><b>Module outcomes:</b> On completion of the module the student should be able to:</p> <ul style="list-style-type: none"> <li>• demonstrate an established base of knowledge of the shift from the traditional pathogenic paradigm to the salutogenic perspectives of human functioning and from there to a balanced perspective on wellbeing/health, from pathology to flourishing as well as the implications thereof for public health;</li> <li>• demonstrate an established base of knowledge of Positive Psychology/Psychofortology as a movement within the field of Psychology and demonstrate knowledge of the important concepts, rules, principles and theories related to psychological health, as to apply it to the identification and facilitation of own and others' functioning in a multicultural context;</li> <li>• demonstrate the ability to solve well-defined, but unfamiliar problems related to psychological and psychosocial health, by using applicable procedures and relevant evidence from a critical analysis of different theories within Positive Psychology/Psychofortology, as well as to communicate information in a reliable and coherent way, both verbally and in writing, as to prove effective and critical reasoning;</li> <li>• apply knowledge and insight of Positive Psychology/Psychofortology, both in individual and social context in a moral, ethical and culturally sensitive way with a sensitivity for, amongst others, the collective and individualistic value systems.</li> </ul>		
<b>Method of delivery:</b> Contact, full-time and part-time		
<b>Module Code: PSYC311</b>	<b>Semester 1</b>	<b>HEQF level: 7</b>
<b>Title: Psychopathology</b>		
<p><b>Module outcomes:</b> On completion of the module the student should be able to:</p> <ul style="list-style-type: none"> <li>• demonstrate a complete/well-rounded and systematic knowledge of psychological disturbances, in the context of a bio-psychosocial model, in a multi-cultural context;</li> <li>• show a coherent and critical understanding of the relevant concepts and terminology, theories, and processes and techniques of the Psychopathology applicable within the professional context so to apply it to undefined and more complex problematic situations, as it occurs in case studies;</li> <li>• demonstrate an understanding of pathology and interventions in the context of primary, secondary and tertiary healthcare;</li> <li>• demonstrate the ability to source and process information to complete written assignments;</li> <li>• critically analyse case studies or examples, individually and in group context and to present an integrated, own opinion based on theoretical grounds and to communicate it in report form according to prescribed conventions of the subject;</li> <li>• demonstrate a solid moral system and ethical code of conduct in all forms of communication and interaction.</li> </ul>		
<b>Method of delivery:</b> Contact, full-time and part-time		
<b>Module Code: PSYC312</b>	<b>Semester 1</b>	<b>HEQF level: 7</b>
<b>Title: Research and Psychometrics</b>		
<p><b>Module outcomes:</b> On completion of the module the student should be able to:</p> <ul style="list-style-type: none"> <li>• explain the nature and processes of psychological evaluation as embedded in the different perspectives on reality and human functioning;</li> </ul>		

<ul style="list-style-type: none"> <li>• know the basic attributes and technical requirements of psychological tests and to explain and evaluate (verbally and in writing) how tests and tests norms are developed;</li> <li>• evaluate the usefulness of psychological tests at the hand of their psychometrical attributes, taking into account the ethical aspects;</li> <li>• explain the control and the use of assessment measuring instruments in diverse populations through the use of suitable standards and norms;</li> <li>• demonstrate a coherent and informed comprehension of the research process for both quantitative and qualitative research against the background of the perspectives on reality;</li> <li>• attain information from virtual and other sources independently and synthesise to complete tasks such as work assignments and projects;</li> <li>• critically analyse and evaluate research articles, formulate an independent opinion based on supporting theories and write a report, based on the APA conventions.</li> </ul>		
<b>Method of delivery:</b> Contact, full-time and part-time		
<b>Module Code: PSYC321</b>	<b>Semester 2</b>	<b>HEQF level: 7</b>
<b>Title: Basic Assistance Rendering/Auxiliary Work and Ethical Behaviour</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to: <ul style="list-style-type: none"> <li>• demonstrate a fundamental knowledge of a general model, the therapeutic process, typical assistance skills, a few selected fields of application (for example aids and post traumatic stress guidance) and the ethical code of assistance, and show a coherent and critical understanding of the relevant concepts, principles and theories of this field of study as to apply it within undefined complex problematic situations and ethical questions as it appears in case studies;</li> <li>• critically analyse case studies or examples, individually and in group content and to present an own opinion based on theoretical grounds and to communicate such in report form according to the prescribed conventions of the subject.</li> </ul>		
<b>Method of delivery:</b> Contact, full-time and part-time		
<b>Module Code: PSYC322</b>	<b>Semester 2</b>	<b>HEQF level: 7</b>
<b>Title: Applied Psychology</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to: <ul style="list-style-type: none"> <li>• demonstrate a well-rounded and systematic base of knowledge of human functioning at all levels of human development in a multi cultural context and to facilitate it in practice or simulated situation, on an integrated level;</li> <li>• demonstrate a critical understanding of perspectives on human functioning from an own coherent world viewpoint;</li> <li>• demonstrate effective selection and application procedures for gathering of qualitative and quantitative information and integrate it to illustrate ability to solve unknown, concrete and/or abstract problems by using witness based solutions and theory driven arguments;</li> <li>• demonstrate a set system of values and ethical behaviour in all forms of communication and interaction;</li> <li>• show the ability to apply and use the prescribed format, which is applicable in Psychology, in all forms of communication.</li> </ul>		
<b>Method of delivery:</b> Contact, full-time and part-time		
<b>Module code: RKKX113</b>	<b>Semester 1</b>	<b>HEQF level: 5a(5)</b>
<b>Title: Introduction to Recreation Science</b>		
<b>Module outcomes:</b>		

<p>On completion of the module the student should be able to:</p> <ul style="list-style-type: none"> <li>• reflect basic/fundamental knowledge on the historic development of recreation, the status of recreation provision in South Africa as well as recreation structures within South Africa;</li> <li>• demonstrate effective and efficient skills concerning the role of a recreationist within the present-day community;</li> <li>• show a coherent critical understanding of the social, psychological, physical and environmental advances of recreation participation as well as the different programme areas and formats;</li> <li>• reflect and stimulate an ethical accountable attitude towards the different forms of recreation.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment modes:</b> Assessment criteria will be provided at the beginning of the semester by means of a working schedule.		
<b>Module code: RKKX123</b>	<b>Semester 2</b>	<b>HEQF level: 5a(5)</b>
<b>Title: Introduction to Outdoor Recreation</b>		
<p><b>Module outcomes:</b></p> <p>On completion of the module the student should be able to:</p> <ul style="list-style-type: none"> <li>• reflect basic/fundamental knowledge and critical understanding on the historic development of outdoor recreation;</li> <li>• demonstrate effective and efficient evaluation skills to solve known problems regarding safety management in an accountable manner;</li> <li>• show a coherent and critical understanding on the philosophical foundations and key principles of recreation;</li> <li>• supply outdoor recreation from an established ethical value system.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment modes:</b> Assessment criteria will be provided at the beginning of the semester by means of a working schedule.		
<b>Module code: RKKX214</b>	<b>Semester 1</b>	<b>HEQF level: 5b(6)</b>
<b>Title: Recreation Leadership</b>		
<p><b>Module outcomes:</b></p> <p>On completion of the module the student should be able to:</p> <ul style="list-style-type: none"> <li>• demonstrate fundamental knowledge regarding recreation leadership including leadership theories and –techniques;</li> <li>• apply practical leadership skills in leading various target groups;</li> <li>• identify and solve known and unknown problems concerning recreation leadership from an established ethical value system and at the hand of various leadership principles and –theories.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment modes:</b> Assessment criteria will be provided at the beginning of the semester by means of a working schedule.		
<b>Module code: RKKX314</b>	<b>Semester 1</b>	<b>HEQF level: (6)7</b>
<b>Title: Professional Issues in Recreation Science</b>		
<p><b>Module outcomes:</b></p> <p>On completion of the module the student should be able to:</p> <ul style="list-style-type: none"> <li>• demonstrate complete knowledge regarding the nature and importance of ethics in the provision of recreation services and demonstrate the various ethical theories;</li> <li>• apply competency through the utilization of ethical theories in order to analyse and rate</li> </ul>		

<p>current professional matters in recreation service provision;</p> <ul style="list-style-type: none"> <li>identify and solve ethical dilemmas in recreation service provision.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment modes:</b> Assessment criteria will be provided at the beginning of the semester by means of a working schedule.		
<b>Module code: RKKX325</b>	<b>Semester 2</b>	<b>HEQF level: 6(7)</b>
<b>Title: Recreation Management</b>		
<p><b>Module outcomes:</b> On completion of the module the student should be able to:</p> <ul style="list-style-type: none"> <li>reflect complete knowledge regarding the nature and components of recreation management and explain it;</li> <li>apply management skills in the execution of a variety of management functions;</li> <li>solve known and unknown problems regarding recreation service delivery by means of effective administration and apply it within an ethical accountable framework.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment modes:</b> Assessment criteria will be provided at the beginning of the semester by means of a working schedule.		
<b>Module code: STTK211</b>	<b>Semester 1</b>	
<b>Title: Probability Theory</b>		
<p><b>Module outcomes:</b> On completion of the module the student should be able to:</p> <ul style="list-style-type: none"> <li>demonstrate knowledge of concepts such as outcome space, events, probability measures, counting processes, stochastic outcomes of events and the independence of events;</li> <li>demonstrate knowledge of important probability theorems, such as the law of total probability and the theorem of Bayes;</li> <li>demonstrate knowledge of stochastic variables, distribution functions and mass functions (Special attention will be given to discrete stochastic variables and the following distributions will be discussed in depth: binomial, geometric, negative binomial, hypergeometric and Poisson distributions. The following continuous random variables, together with their distribution functions will be discussed in detail: exponential, gamma and normal distributions. Functions of these variables will also be discussed.);</li> <li>demonstrate knowledge of probability structures of two or more stochastic variables defined in the same outcome space and functions of joint distributions;</li> <li>demonstrate knowledge of conditional distributions and the ability to apply probability calculations to conditional distributions;</li> <li>demonstrate knowledge of ordered statistics and their application;</li> <li>demonstrate knowledge of the expected value and standard deviation of all the important mass functions and density functions previously discussed;</li> <li>demonstrate knowledge of covariance and correlation of two stochastic variables, together with conditional expectation values and moment generating functions and the use of the first and second moment;</li> <li>demonstrate knowledge of two of the most important theorems in probability theory, namely the so-called law of large numbers and the central limit theorem.</li> </ul>		
<b>Method of delivery:</b> Full-time and Part-time (From 2011)		
<b>Module code: STTN111</b>	<b>Semester 1</b>	<b>HEQF level: 5</b>
<b>Title: Descriptive Statistics</b>		
<p><b>Module outcomes:</b> On completion of the module the student should be able to:</p>		

- demonstrate fundamental knowledge of the most important elementary statistical techniques used every day, such as sampling methods, graphical representation of data, descriptive measures of locality and scattering, least squares line fitting, predictions by means of least squares line fitting, correlation coefficients, multiple linear regression with applications to predictions, time series data and movement components in order to predict future outcomes and practical considerations with regard to questionnaires and sampling sizes;
- demonstrate problem solving skills by solving familiar and unfamiliar problems; to implement the acquired knowledge by applying sampling methods, graphical representation of data, descriptive measures of locality and scattering, least squares fittings, predictions by means of least squares fittings, correlation coefficients, interpretation of multiple regression, calculations of movement components, predictions of future outcomes of time series data and determining sampling sizes for actual data.

<b>Module code: STTN121</b>	<b>Semester 2</b>	<b>HEQF level: 5</b>
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**Title: Introductory Statistical Interference**

**Module outcomes:**  
 On completion of the module the student should be able to:

- demonstrate fundamental knowledge of probability and probability distributions, the central limit theorem, estimation of population parameters by the use of point and interval estimation, hypothesis testing for population means and proportions for one and two samples, one-way analysis of variance (ANOVA) and categorical data analysis, contingency tables and basic tests on categorical data;
- demonstrate problem solving skills by analysing known and unknown problems, using knowledge to do simple probability calculations, apply the central limit theorem, estimate population parameters using point and interval estimation, test hypotheses for population means and population proportions for one and two samples, apply one-way analysis of variance (ANOVA) methods and interpret computer output, apply methods for categorical data analysis such as contingency tables and basic tests on categorical data.

**Method of delivery:** Full-time

<b>Module code: STTN122</b>	<b>Semester 2</b>	<b>HEQF level: 5</b>
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**Title: Introductory Statistics**

**Module outcomes:**  
 On completion of the module the student should be able to demonstrate knowledge of the following concepts and be able to apply them on a basic level:

- statistical techniques used every day, for example sampling methods, graphical representation of data and descriptive measures of locality and scattering;
- fitting linear regression curves to bivariate data and using the least squares method;
- making simple predictions by using appropriate curves, as well as by interpreting the correlation coefficient;
- handling time series data and calculating movement components in order to predict future outcomes;
- carrying out simple probability calculations and using probability distributions;
- the central limit theorem and applying it to practical problems;
- estimating population parameters by means of point and interval estimation;
- hypothetical testing for population averages and population proportions in one or two sampling cases.

The student should be able to identify the presence and applicability of statistical concepts in a practical situation, as well as to perform statistical methods using manual analysis or statistical software.

<b>Module code: STTN124</b>	<b>Semester 2</b>	<b>HEQF level: 5</b>
<b>Title: Practical Statistics</b>		
<p><b>Module outcomes:</b> On completion of the module the student should be able to demonstrate knowledge of the following concepts and be able to apply them:</p> <ul style="list-style-type: none"> <li>• correlation and its interpretation, the method of least squares fitting to a regression function, prediction by means of a regression function, multiple linear regression and selection of predictors;</li> <li>• factor analysis and the interpretation of its results, interpretation of factor matrices and construct validity;</li> <li>• interval estimation, the hypothesis testing procedure, probability calculations, the central limit theorem, level of significance and p values;</li> <li>• one-way ANOVA testing procedures, the interpretation of results;</li> <li>• practical significance of effect sizes of differences in averages and proportions for one and two populations;</li> <li>• categorical data analysis by means of contingency tables, chi-squared tests and independence tests;</li> <li>• distribution-free methods, the difference between parametric and non-parametric methods of inference, as well as deciding which method to use in a specific situation.</li> </ul> <p>The student should be able to identify the presence and applicability of statistical concepts in a practical situation, as well as to perform statistical methods using manual analysis or statistical software.</p>		
<b>Module code: TAXC211</b>	<b>Semester 1</b>	<b>NQF level: 6</b>
<b>Title: Taxation: Income Tax of Companies</b>		
<p><b>Module outcomes:</b> On completion of the module the student should be able to:</p> <ul style="list-style-type: none"> <li>• interpret and apply the Income Tax Act and relevant court cases, issued by the South African Revenue Service, pertaining to companies;</li> <li>• demonstrate a clear understanding of the definition of gross income, exempt income, deductible expenses and taxable income as defined by the Income Tax Act, pertaining to business activities;</li> <li>• identify and calculate basic specific deductions and capital allowances of companies;</li> <li>• calculate basic capital gains tax (CGT) according to the Eighth Schedule of the Income Tax Act;</li> <li>• calculate the normal income tax payable by companies;</li> <li>• provide basic administrative procedures pertaining to the Income Tax Act;</li> <li>• calculate basic Value Added Tax (VAT), as required by the Value Added Tax Act.</li> </ul>		
<b>Method of delivery:</b> Full-time and Part-time		
<b>Assessment modes:</b> Assessment criteria will be communicated at the beginning of the semester via the working schedule.		
<b>Module code: TAXC221</b>	<b>Semester 2</b>	<b>HEQF level: 6</b>
<b>Title: Taxation: Income Tax of Individuals and Administration of Estate</b>		
<p><b>Module outcomes:</b> On completion of the module the student should be able to:</p> <ul style="list-style-type: none"> <li>• interpret and apply the Income Tax Act, court cases as well as practice notes, issued by the South African Revenue Service, pertaining to individuals;</li> <li>• demonstrate a clear understanding of the definition of gross income, exempt income, deductible expenses and taxable income as defined by the Income Tax Act;</li> <li>• motivate why items are taxable/deductible pertaining to individuals, by referring to court cases;</li> </ul>		

<ul style="list-style-type: none"> <li>demonstrate the ability to calculate the normal income tax (including capital gains tax) payable by individuals on taxable income of remuneration, investment income and fringe benefits;</li> <li>demonstrate the ability to calculate employees' tax that has to be deducted from remuneration, as well as provisional tax payable on income other than remuneration;</li> <li>calculate, by referring to legislation the donations tax payable;</li> <li>perform the tax and accounting treatment of deceased and insolvent estates with reference to the Administration of Estates Act nr. 66 of 1965 and the Insolvency Act nr. 24 of 1936.</li> </ul>		
<b>Method of delivery:</b> Full-time and Part-time		
<b>Assessment modes:</b> Assessment criteria will be communicated at the beginning of the semester via the working schedule.		
<b>Module code:</b> TAXC371	<b>Semester 1 &amp; 2</b>	<b>HEQF level:</b> 7
<b>Title:</b> Taxation: Income Tax of Businesses and Advanced Income Tax of Individuals		
<b>Module outcomes:</b> On completion of the module the student should be able to: <ul style="list-style-type: none"> <li>interpret the Income Tax Act, court cases and SARS practice notes;</li> <li>identify and calculate capital and other allowances for various entities (e.g. companies, CCs, partnerships, farmers) and individuals;</li> <li>calculate the normal income tax payable by individuals and the following entities (e.g. companies, CCs, partnerships, farmers);</li> <li>calculate secondary tax on companies (STC);</li> <li>calculate the taxation on lump sums received; and</li> <li>calculate the different types of taxation as required by the Fourth Schedule of the Income Tax Act payable by individuals, as well as companies (e.g. provisional tax, employees tax, etc).</li> <li>interpret and calculate the Value Added Tax (VAT) according to the Value Added Tax Act;</li> <li>calculate and apply the principles of Capital Gains Tax (CGT) according to the Eighth Schedule of the Income Tax Act;</li> <li>identify, by means of referring to legislation and court cases, cases of tax avoidance and the consequences thereof;</li> <li>calculate, by means of referring to legislation and court cases, estate duty;</li> <li>calculate the relevant taxes relating to trusts and identify the relevant taxpayers as well as cases of tax avoidance in terms of Sections 7 and 25 of the Income Tax Act;</li> <li>apply all taxes to advanced taxation problems and calculations.</li> </ul>		
<b>Method of delivery:</b> Full-time and Part-time		
<b>Assessment modes:</b> Assessment criteria will be communicated at the beginning of the semester via the working schedule.		
<b>Module code:</b> TAXF211	<b>Semester 2</b>	<b>NQF level:</b> 6
<b>Title:</b> Taxation: Introduction to Income Tax		
<b>Module outcomes:</b> On completion of the module the student should be able to: <ul style="list-style-type: none"> <li>interpret the relevant income tax law, case law and practice notes issued by the South African Revenue Services regarding the taxation of individuals;</li> <li>demonstrate a clear understanding of the definition of gross income, exempt income, deductible expenses and taxable income as defined by the Income Tax Act, pertaining to business activities;</li> <li>identify and calculate basic specific deductions and capital allowances of companies;</li> <li>calculate basic capital gains tax (CGT) according to the Eight Schedule of the Income Tax Act;</li> </ul>		

<ul style="list-style-type: none"> <li>• calculate the normal tax payable by companies;</li> <li>• provide basic administrative procedures pertaining to the Income Tax Act;</li> <li>• calculate basic Value Added Tax (VAT), as required by the Value Added Tax Act.</li> </ul>		
<b>Method of delivery:</b> Full-time and Part-time		
<b>Assessment modes:</b> Assessment criteria will be communicated at the beginning of the semester via the working schedule.		
<b>Module code:</b> TAXF221	<b>Semester 2</b>	<b>NQF level: 6</b>
<b>Title: Taxation: Introduction to Income Tax</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to: <ul style="list-style-type: none"> <li>• interpret the relevant income tax law, case law and practice notes issued by the South African Revenue Services regarding the taxation of individuals;</li> <li>• demonstrate a clear understanding of the definition of gross income, deductible expenses and taxable income as defined by the Income Tax Act;</li> <li>• Motivate why items pertaining to individuals are taxable/deductible, by referring to court cases;</li> <li>• demonstrate the ability to calculate the normal income tax (including capital gains tax) payable by individuals on taxable income of remuneration, investment income and fringe benefits;</li> <li>• demonstrate the ability to calculate employees' tax that has to be deducted from remuneration, as well as provisional tax payable on income other than remuneration.</li> </ul>		
<b>Method of delivery:</b> Full-time and Part-time		
<b>Assessment modes:</b> Assessment criteria will be communicated at the beginning of the semester via the working schedule.		
<b>Module code:</b> TAXF311	<b>Semester 1</b>	<b>NQF level: 7</b>
<b>Title: Taxation: Taxation of Individuals and Businesses</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to: <ul style="list-style-type: none"> <li>• interpret the relevant income tax law, case law and practice notes issued by the South African Revenue Services;</li> <li>• demonstrate a clear understanding of the definition of gross income, deductible expenses, fringe benefits, lump sum receipts and taxable income of individuals carrying on trade or business;</li> <li>• calculate income tax payable on taxable income derived by an individual from farming operations;</li> <li>• calculate income tax payable on taxable income derived by individual partners from carrying on trade in partnership;</li> <li>• calculate normal income tax payable by individuals on taxable income derived from employment, investment income, fringe benefits, lump sum receipts and from carrying on trade or business.</li> </ul>		
<b>Method of delivery:</b> Full-time and Part-time		
<b>Assessment modes:</b> Assessment criteria will be communicated at the beginning of the semester via the working schedule.		



<b>Module code:</b> TAXF321	<b>Semester 2</b>	<b>NQF level:</b> 7
<b>Title: Taxation: Company Taxes, Trusts, Farming, VAT, CGT</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>interpret the relevant income tax law, case law and practice notes issued by the South African Revenue Services.</li> <li>demonstrate a clear understanding of the definitions in the Income Tax Act regarding gross income, deductible expenses and taxable income of farming operations, companies and trusts;</li> <li>calculate the normal income tax payable by farmers, companies and trusts, calculate Donations tax and Estate duty payable;</li> <li>interpret the Value Added Tax (VAT) law and calculate VAT;</li> <li>calculate Secondary Tax on Companies (STC);</li> <li>interpret the Capital Gains Tax (CGT) law and calculate CGT;</li> <li>motivate the taxability and deductibility of items by referring to case law and the income tax law.</li> </ul>		
<b>Method of delivery:</b> Full-time and Part-time		
<b>Assessment modes:</b> Assessment criteria will be communicated at the beginning of the semester via the working schedule.		
<b>Module code:</b> WISN111	<b>Semester 1</b>	<b>HEQF level:</b> 5
<b>Title: Introductory Algebra and Analysis I</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>demonstrate fundamental knowledge of basic set theory and logic, the system of integer and real numbers, mathematical induction, permutations and combinations and the binomial theorem, the concept of functions, circle measure and trigonometric functions, inverse functions and inverse trigonometric functions, polynomials in one variable, rational functions, partial fractions, vectors and the operations between vectors, complex numbers, representations by polar coordinates, limits, continuity and differentiability of standard functions, indefinite integrals of simple functions, the theorem of L'Hospital and its applications, the use of derivatives in optimisation and in sketching curves;</li> <li>demonstrate problem solving skills by analysing familiar and unfamiliar problems, by using the knowledge of techniques to apply set notation and logic to systems of numbers, by proving theorems with mathematical induction, by determining the number of arrangements and selections from a set, by developing powers of first degree polynomials, by finding the limits of all the above mentioned functions, also by using the theorem of L'Hospital, by calculating derivatives and indefinite integrals of simple functions and sketching the functions, by formulating optimisation problems mathematically and using knowledge of derivatives to solve them, by performing operations with complex numbers and vectors, and sketching curves in polar coordinates.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment modes:</b> Summative: 1 x 3 hour examination; weight – 50 This is a guideline and can change.		
<b>Module code:</b> WISN112/WISN123	<b>Semester 1/2</b>	<b>HEQF level:</b> 5
<b>Title: Mathematical Techniques</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>demonstrate introductory knowledge of the concept of a mathematical function elucidated from examples that include exponential and logarithmic functions, the concepts</li> </ul>		

<p>differentiation and integration, a method to solve systems of linear equations, matrix algebra, linear programming problems in two variables, analysis of the rate of change of mathematical functions by using differentiation to investigate the characteristics of the function;</p> <ul style="list-style-type: none"> <li>demonstrate skills to recognise the presence and applicability of mathematical concepts in an economic situation and to construct a mathematical model of the problem situation in order to reach a solution by applying differentiation techniques, arithmetic techniques or linear algebra.</li> </ul>		
<b>Module code:</b> WISN121	<b>Semester 2</b>	<b>HEQF level:</b> 5
<b>Title: Introductory Algebra and Analysis II</b>		
<p><b>Module outcomes:</b> On completion of the module the student should be able to:</p> <ul style="list-style-type: none"> <li>demonstrate fundamental knowledge of basic concepts of sequences, series and power series, and the basic theorems on the converging of series, Taylor series, the basic properties and applications of the definite integral, the fundamental theorems of differential and integral calculus, hyperbolic and inverse hyperbolic functions, applications of integration to surfaces, lengths and volumes, first order separable differential equations, systems of linear equations, Gaussian reduction, matrices and matrix operations, determinants and Cramer's rule;</li> <li>demonstrate problem solving skills by analysing familiar and unfamiliar problems, using knowledge of techniques to handle systems of linear equations, judging convergence of sequences and series, calculating Taylor series, determining integrals and derivatives and integrals of exponential and hyperbolic functions, solving differential equations and calculating surfaces, lengths and volumes.</li> </ul>		
<b>Module code:</b> WVES221	<b>Semester 2</b>	<b>HEQF level:</b> 6
<b>Title: Understanding the Economic World</b>		
<p><b>Module outcomes:</b> On completion of the module the student should be able to:</p> <ul style="list-style-type: none"> <li>have a fundamental knowledge base of a selection of world views and ideologies and demonstrate their critical understanding through an ability to compare the nature and function, as well as different contemporary manifestations of these world views and ideologies;</li> <li>understand the interrelatedness of phenomena such as occurs in natural and social systems, and from this vantage point, analyse and evaluate real life problems or case studies based on core issues of our time, such as poverty, constant change, human rights, HIV-AIDS, power abuse, corruption, racism, xenophobia, etc.;</li> <li>articulate his/her personal world view and use it as a point of departure for arguing and communicating feasible solutions to core issues and problems of our time in a typical academic manner.</li> </ul>		
<b>Method of delivery:</b>	Full-time and Part-time	
<b>Assessment modes:</b>	Formative:	3 class tests; weight – 40 class attendance; weight – 10
	Summative:	1 x 1 hour examination; weight – 50
This is a guideline and can change.		

<b>Module code: WVES311</b>	<b>Semester 1</b>	<b>HEQF level: 7</b>
<b>Title: Business Ethics</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>• give his/her own opinion on philosophical matters of the day;</li> <li>• understand the science and pursuit from a Christian framework;</li> <li>• handle ethical problems against a Christian background.</li> </ul>		
<b>Method of delivery:</b> Full-time and Part-time		
<b>Assessment modes:</b>		
Formative:	3 class tests; weight – 40	class attendance; weight – 10
Summative:	1 x 1 hour examination; weight – 50	
This is a guideline and can change.		

## 4.2 MODULE OUTCOMES: EXTENDED PROGRAMMES BACHELOR OF COMMERCE

Foundation modules are preparatory for the regular first/second/third level modules and combine some aspects of the regular module material with substantial provision for foundation material.

<b>Module code: ACFS111</b>	<b>Semester 1</b>	<b>HEQF level: 5</b>
<b>Title: Financial Accounting Special: Basic Concepts, Accounting Cycle and Accounting Systems</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>• explain the purpose and function of accounting;</li> <li>• demonstrate a clear understanding of the accounting equation;</li> <li>• create journals, ledgers subsidiary ledgers and control accounts;</li> <li>• design an accounting system that will meet the requirements of a specific entity;</li> <li>• record transactions and prepare financial statements of sole traders.</li> </ul>		
<b>Method of delivery:</b> Full-time and part-time		
<b>Assessment modes:</b> Assessment criteria will be provided at the beginning of the semester by means of a working schedule.		
<b>Module code: ACFS121</b>	<b>Semester 2</b>	<b>HEQF level: 5</b>
<b>Title: Financial Accounting Special: Bank Reconciliation, Elementary Financial Reporting and Analysis and Interpretation of Elementary Financial Statements</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>• draw up a cash receipts- and payment journal and to prepare a bank reconciliation statement;</li> <li>• prepare a statement of comprehensive income (income statement), statement of financial position (balance sheet) and a statement of changes in equity for sole traders on a generally acceptable format;</li> <li>• identify and explain financial ratios; explain their purpose and use in the analyses of the liquidity, profitability and solvency of a sole trader.</li> </ul>		
<b>Method of delivery:</b> Full-time and part-time		
<b>Assessment modes:</b> Assessment criteria will be provided at the beginning of the semester by means of a working schedule.		

ACFS111,121 (Financial Accounting Special) are preparatory for the regular first level modules in Accounting. It is intended for students who have not taken accounting at grade 12 level.

<b>Module code: BRSF121</b>	<b>Semester 1</b>	<b>HEQF level: 5</b>
<b>Title: Analytical Thinking</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>• demonstrate the ability to analyse subject-specific texts and arguments critically;</li> <li>• demonstrate a mastery of basic data collection methods;</li> <li>• identify and formulate a basic research problem;</li> <li>• develop well-structured arguments in a written format.</li> </ul>		

BRSF121 (Analytical Thinking) is generic and preparatory for the regular third level modules in Accounting (ACCC371), Auditing (AUDT321), Taxation (TAXC311 and TAXC321), Cost and

Management Accounting (MACC311 and FINM321), Economic Analysis (ECON321), Analysis of Financial Markets (EKRP312) and Fiscal and Monetary Policy (ECON311).

<b>Module code: CTSS111</b>	<b>Semester 1</b>	<b>HEQF level: 5</b>
<b>Title: Critical Thinking Skills</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to: <ul style="list-style-type: none"> <li>• demonstrate basic knowledge of the fundamentals of argumentation;</li> <li>• demonstrate the ability to analyse texts and arguments critically;</li> <li>• develop well-structured arguments in a written format.</li> </ul>		

CTSS111 (Critical Thinking Skills) is preparatory for critical thinking skills required across all regular modules.

<b>Module code: STTF111</b>	<b>Semester 1</b>	<b>HEQF level: 5</b>
<b>Title: Foundation Statistics I</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to: <ul style="list-style-type: none"> <li>• understand the importance of data types in choosing data analysis techniques;</li> <li>• understand the requirements of questionnaire design;</li> <li>• identify and apply the steps in data preparation prior to data analysis</li> <li>• use Excel as a tool to perform basic statistical analysis; i.e. data capturing; summary tables and graphing capabilities as well as be able to use the Data Analysis add-in module to extend the range of statistical analysis capabilities;</li> <li>• interpret the printouts; i.e. graphs, tables and descriptive statistical measurements.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment modes:</b> Summative: 1 x 2 hour examination; weight – 50 This is a guideline and can change.		

<b>Module code: STTF121</b>	<b>Semester 2</b>	<b>HEQF level: 5</b>
<b>Title: Foundation Statistics II</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to: <ul style="list-style-type: none"> <li>• test the overall regression model and the individual regression variables for statistical significance using Excel;</li> <li>• use excel to derive probabilities, confidence intervals and to test hypotheses;</li> <li>• carry out a statistical project, from design to analysis.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment modes:</b> Summative: 1 x 2 hour examination; weight – 50 This is a guideline and can change.		

<b>Module code: WISS112</b>	<b>Semester 1</b>	<b>HEQF level: 5</b>
<b>Title: Foundation Mathematics I</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to: <ul style="list-style-type: none"> <li>• demonstrate knowledge on an introductory level of number systems and exponential laws;</li> <li>• write simple word problems in mathematical form;</li> <li>• apply and demonstrate mathematical concepts and properties by simplifying expressions and solving linear and quadratic equations and linear and quadratic inequalities.</li> </ul>		
<b>Method of delivery:</b> Full-time		

<b>Module code: WISS122</b>	<b>Semester 2</b>	<b>HEQF level: 5</b>
<b>Title: Foundation Mathematics II</b>		
<p><b>Module outcomes:</b>  On completion of the module the student should be able to:</p> <ul style="list-style-type: none"> <li>• demonstrate knowledge on an introductory level of functions, exponential laws, logarithmic laws and limit laws;</li> <li>• demonstrate knowledge on different types of graphs, solving systems of linear equations, linear programming problems in two variables, limits, analyzing the rate of change of functions;</li> <li>• demonstrate knowledge on financial mathematics (simple and compound growth and decay, annuities and bonds);</li> <li>• apply and demonstrate mathematical concepts and properties by simplifying expressions and solving linear- and quadratic equations, linear inequalities, exponential equations and logarithmic equations.</li> </ul>		
<b>Method of delivery:</b> Full-time		

WISS112,122 (Foundation Mathematics I/II) are preparatory for the regular first level modules in Mathematics in order to achieve a level of mathematical skills.

### 4.3 MODULE OUTCOMES: DIPLOMA IN SPORT SCIENCE

<b>Module code:</b> MBWK112	<b>Semester 1</b>	<b>NQF-level: 5a(5)</b> <b>Credits: 12</b>
<b>Title:</b>	Motor Learning	
<b>Module outcomes:</b>	<p>After completion of the module, the student should be able to:</p> <ul style="list-style-type: none"> <li>• apply extensive and systematic, recent knowledge and understanding with regard to the interactive nature of the physical, cognitive and affective development of a child, motor aspects, memory structures and certain learning hierarchies, classification of movement and movement capability, growth and ripening tendencies in movement development as well as movement backlogs; individuality of sport talent and talent identification in sport;</li> <li>• apply knowledge concerning growth to sport and movement skills in children of different age groups and classify movement skills;</li> <li>• evaluate motor- and physical development as well as accompanying perceptual-motor skills in children of different age groups;</li> <li>• reflect an ethical accountable approach with regard to motor development and the learning process.</li> </ul>	
<b>Method of delivery:</b>	Full time	
<b>Method of assessment:</b>	50 : 50	
<b>Module code:</b> MBWK216	<b>Semester 1</b>	<b>NQF-level: 5b(6)</b> <b>Credits: 8</b>
<b>Title:</b>	Biomechanics	
<b>Module outcomes:</b>	<p>After completion of the module, the student should be able to:</p> <ul style="list-style-type: none"> <li>• demonstrate, debate and communicate knowledge and understanding with regard to the key terms, rules, concepts and theories applicable to Biomechanics;</li> <li>• select and apply the core procedures or techniques necessary to analyze, identify and evaluate sport related movements;</li> <li>• individually or in a group identify, interpret and discuss information with regard to biomechanical aspects and injuries in sport, and integrate it into a report;</li> <li>• critically discuss and formulate funded opinions concerning biomechanical related sport problems;</li> <li>• show insight in the field of Biomechanics and demonstrate knowledge within the field of sport science and –coaching, biokinetics, exercising, recreation and leisure science;</li> <li>• act from an established ethical value system in the application of Biomechanics research and coaching.</li> </ul>	
<b>Method of delivery:</b>	Full time	
<b>Method of assessment:</b>	50 : 50	

<b>Module code:</b> <b>MBWK218</b>	<b>Semester 1</b>	<b>NQF-level: 5b(6)</b> <b>Credits: 8</b>
<b>Title:</b>	Introduction to Sport injuries	
<b>Module outcomes:</b>	<p>After completion of the module, the student should be able to:</p> <ul style="list-style-type: none"> <li>• establish an effective sport-health care system;</li> <li>• demonstrate knowledge with regard to the prevention and restriction of sport related injuries;</li> <li>• individually and as part of a multi disciplinary team, deal with the causes, identification and treatment of specific sport injuries and conditions;</li> <li>• apply the principles of patient evaluation, from an ethical framework of emergency treatment; • understand, identify and treat the basic anatomy and physiology of the following conditions: respiratory-cardiovascular-, nervous-, biological- and musculo-skeletal and associated trauma conditions..</li> </ul>	
<b>Method of delivery:</b>	Full time	
<b>Method of assessment:</b>	50 : 50	
<b>Module code:</b> <b>MBWK223</b>	<b>Semester 2</b>	<b>NQF-level: 5b(6)</b> <b>Credits: 8</b>
<b>Title:</b>	Kinanthropometry	
<b>Module outcomes:</b>	<p>After completion of the module, the student should be able to:</p> <ul style="list-style-type: none"> <li>• measure skin folds, circumferences, body mass, body length and widths correct and according to international standards;</li> <li>• understand theoretical aspects like the determination of the percentages of fat, somatotypification, basic anatomy, the measuring error etc. and apply them in practice;</li> <li>• execute body measurements on patients/sportsmen, consult and write a report on it;</li> <li>• demonstrate awareness on the foundations of ethical rules and norms in dealing with people when conducting body measurements.</li> </ul>	
<b>Method of delivery:</b>	Full time	
<b>Method of assessment:</b>	50 : 50	
<b>Module code:</b> <b>MBWK226</b>	<b>Semester 2</b>	<b>NQF-level: 5b(6)</b> <b>Credits: 8</b>
<b>Title:</b>	Sport and Exercise Psychology	
<b>Module outcomes:</b>	<p>After completion of the module, the student should be able to:</p> <ul style="list-style-type: none"> <li>• reflect a good understanding on the establishment, development, future prospects and demarcation in the field of sport- and exercise psychology in order to identify potential career possibilities or application fields;</li> <li>• describe, evaluate and apply effects in certain underlying principles influencing the behaviour of sportsmen/women (i.e. personality, motivation, arousal, stress and fear);</li> <li>• identify the appearance of burnout and over-exercise within competitive sport and initiate ways to prevent or address it to contribute to the total health and wellness of sportsmen</li> </ul>	



	<p>and -women;</p> <ul style="list-style-type: none"> <li>• facilitate certain basic sport psychological skills (control activating, confidence setting, target setting and concentration) in a scientific accountable manner within a well developed skills programme to promote sport performance and achievements;</li> <li>• formulate and live out beliefs in future possibilities of subject contents on sport, and exercise psychology within the context of human movement sciences.</li> </ul>	
<b>Method of delivery:</b>	Full time	
<b>Method of assessment:</b>	50 : 50	
<b>Module code:</b> MBXG114	<b>Semester 1</b>	<b>NQF-level: 5a(6)</b> <b>Credits: 8</b>
<b>Title:</b>	Coaching Science of Golf	
<b>Module outcomes:</b>	<p>After completion of the module, the student should be able to:</p> <ul style="list-style-type: none"> <li>• show the ability to execute basic golf skills;</li> <li>• know and apply the rules of the game;</li> <li>• reflect knowledge and skills on effective planning to function successfully as a golf coach;</li> <li>• present an effective practical session to other students;</li> <li>• understand and apply the ethical practises of the game correctly.</li> </ul>	
<b>Method of delivery:</b>	Full time	
<b>Method of assessment:</b>	50 : 50	
<b>Module code:</b> MBXR112	<b>Semester 1</b>	<b>NQF-level: 5a(5)</b> <b>Credits: 12</b>
<b>Title:</b>	Supplementation and Ergogenic aids	
<b>Module outcomes:</b>	<p>After completion of the module, the student should be able to:</p> <ul style="list-style-type: none"> <li>• differentiate between the various categories of ergogenic aids;</li> <li>• differentiate between lawful and unlawful aids in sport;</li> <li>• report on the ethical aspects concerning the utilization of ergogenic aids in sport;</li> <li>• give a detailed discussion with regard to the different supplementation products used by sportsmen/women;</li> <li>• interpret certain definitions with regard to supplementation in sport.</li> </ul>	
<b>Method of delivery:</b>	Full time	
<b>Method of assessment:</b>	50 : 50	
<b>Module code:</b> MBXR114	<b>Semester 1</b>	<b>NQF-level: 5a(5)</b> <b>Credits: 12</b>
<b>Title:</b>	Basic Anatomy and energy systems	
<b>Module outcomes:</b>	<p>After completion of the module, the student should be able to:</p> <ul style="list-style-type: none"> <li>• define and apply the different principles used in the identification and description of the various skeletal- and muscular structures;</li> </ul>	

	<ul style="list-style-type: none"> <li>name and identify the anatomic structures of the different bones(skeletal system) and joints(articular system) as well as the primary muscles(muscular system) verbally and in written format;</li> <li>understand how the various physiological processes in the body adjust to short term and long term exercise by referring to repetition and the different energy systems.</li> </ul>	
<b>Method of delivery:</b>	Full time	
<b>Method of assessment:</b>	50 : 50	
<b>Module code:</b> <b>MBXC124</b>	<b>Semester 2</b>	<b>NQF-level: 5a(5)</b> <b>Credits: 12</b>
<b>Title:</b>	Game skills development in Cricket	
<b>Module outcomes:</b>	<p>After completion of the module, the student should be able to:</p> <ul style="list-style-type: none"> <li>reflect factual knowledge concerning the different aspects of successful coaching, lesson planning, acquiring of skills and rules;</li> <li>work out, organize, execute and adjust lesson plans and apply it within a coaching environment;</li> <li>plan, work out and present pre-competition and competition programmes for different groups of players;</li> <li>master the scientific programme according to which new skills is acquired and apply it effectively during practical sessions;</li> <li>present effective coaching to players (considering their motor-, social-, psychological level of development) in order to nourish lifelong interest in the sport and establish correct techniques.</li> </ul>	
<b>Method of delivery:</b>	Full time	
<b>Method of assessment:</b>	50 : 50	
<b>Module code:</b> <b>MBXK124</b>	<b>Semester 2</b>	<b>NQF-level: 5a(6)</b> <b>Credits: 12</b>
<b>Title:</b>	Generic Coaching Science	
<b>Module outcomes:</b>	<p>After completion of the module, the student should be able to:</p> <ul style="list-style-type: none"> <li>interpret the various capacities in coaching and train players (of all ages and in all levels of participation) with regard to the foundation principles of the sport to promote performance from an established ethical value system and scientific framework;</li> <li>describe and reflect basic and fundamental knowledge concerning the demands of a coaching career;</li> <li>identify different objectives in coaching and formulate own objectives thereon;</li> <li>develop and apply individual approaches with regard to coaching founded in the various capacities and objectives of coaching;</li> <li>develop practical skills with regard to interpersonal interaction and apply it in the coaching environment;</li> </ul>	

	<ul style="list-style-type: none"> <li>utilize communication skills during the coaching process;</li> <li>utilize sports and games to develop players in specific coaching conditions;</li> <li>identify scientific principles supporting the development of skills and techniques;</li> <li>analyze and amend scientific principles with regard to the interaction of skills and practical conditions.</li> </ul>	
<b>Method of delivery:</b>	Full time	
<b>Method of assessment:</b>	50 : 50	
<b>Module code:</b> <b>MBXT211</b>	<b>Semester 1</b>	<b>NQF-level: 5b(6)</b> <b>Credits: 8</b>
<b>Title:</b>	Coaching Science in Tennis	
<b>Module outcomes:</b>	<p>After completion of the module, the student should be able to:</p> <ul style="list-style-type: none"> <li>reflect factual knowledge concerning the different aspects of successful coaching, lesson planning, acquiring of skills and rules;</li> <li>compose, organize, execute, adjust lesson plans and apply it within a coaching environment;</li> <li>plan, work out and present pre-competition and competition programmes for different groups of players;</li> <li>master the scientific programme according to which new skills is acquired and apply it effectively during practical sessions;</li> <li>present effective coaching to players (considering their motor-, social-, psychological level of development) in order to nourish lifelong interest in the sport and establish correct techniques.</li> </ul>	
<b>Method of delivery:</b>	Full time	
<b>Method of assessment:</b>	50 : 50	
<b>Module code:</b> <b>MBXR216</b>	<b>Semester 1</b>	<b>NQF-level: 5b(6)</b> <b>Credits: 16</b>
<b>Title:</b>	Game notational analyses and preparation	
<b>Module outcomes:</b>	<p>After completion of the module, the student should be able to:</p> <ul style="list-style-type: none"> <li>differentiate between the various game plans;</li> <li>conduct game analysis and interpret results;</li> <li>in the light of aforementioned analysis compile the most suitable game plan for his/her team, and prepare them accordingly (physically and tactically).</li> </ul>	
<b>Method of delivery:</b>	Full time	
<b>Method of assessment:</b>	50 : 50	
<b>Module code:</b> <b>MBXR217</b>	<b>Semester 1</b>	<b>NQF-level: 6(7)</b> <b>Credits: 8</b>
<b>Title:</b>	Sport management	
<b>Module outcomes:</b>	After completion of the module, the student should be able to:	

	<ul style="list-style-type: none"> <li>• apply applicable factual knowledge with regard to management tasks in sport;</li> <li>• know, interpret and reflect the various definitions with regard to sport management;</li> <li>• interpret and reflect management communication skills practically;</li> <li>• understand and develop a financial management system of a sport club.</li> </ul>	
<b>Method of delivery:</b>	Full time	
<b>Method of assessment:</b>	50 : 50	
<b>Module code:</b> <b>MBXR218</b>	<b>Semester 1</b>	<b>NQF-level: 6(7)</b> <b>Credits: 16</b>
<b>Title:</b>	Sport commercialization, sport development and sport law	
<b>Module outcomes:</b>	<p>After completion of the module, the student should be able to:</p> <p><b>Sport commercialization</b></p> <ul style="list-style-type: none"> <li>• understand and explain the definition of sport commercialization;</li> <li>• analyse, understand and apply strategic marketing management;</li> <li>• develop and implement a sport marketing plan in full;</li> <li>• determine and understand the different behaviour patterns in sport consumers;</li> <li>• define, understand and explain market segmentation as well as strategies and techniques, the sport product, promotions, retail and price strategies and apply it effectively;</li> </ul> <p><b>Sport development</b></p> <ul style="list-style-type: none"> <li>• manage facilities for the development of sport;</li> <li>• plan, work out and apply a complete session with children;</li> <li>• establish a club;</li> <li>• understand the sport structures in South Africa.</li> </ul> <p><b>Sport law</b></p> <ul style="list-style-type: none"> <li>• apply law enforcement on sport, taking general-, criminal- and civil law into consideration;</li> <li>• understand the establishment and compilation of constitutions regarding clubs/associations/unaffiliated associations according to law;</li> <li>• know the legal aspects concerning injuries between two or more parties during matches, disciplinary processes as well as persons responsible during events/tournaments;</li> <li>• reflect knowledge and fully understand trademarks, and related legal aspects for instance copy right, patents, law as well as ethical concepts;</li> <li>• employ a person according to legal guidelines on labour relations, and compile a contract in line with these specifications.</li> </ul>	

<b>Method of delivery:</b>	Full time	
<b>Method of assessment:</b>	50 : 50	
<b>Module code:</b> <b>MBXR219</b>	<b>Semester 1</b>	<b>NQF-level: 5b(6)</b> <b>Credits: 8</b>
<b>Title:</b>	Sport organization and administration	
<b>Module outcomes:</b>	<p>After completion of the module, the student should be able to:</p> <ul style="list-style-type: none"> <li>• integrate complete knowledge and skills of human movement with the principles of recreation and adventure practices applicable to sport, health and human development in the acquisition of applied skills by problem solving, executing of projects, dealing with true-life case studies and practice-centered scenarios;</li> <li>• attach evidence-driven interpretation through analysis, synthesis and evaluation to research results by founding it theoretically and effectively communicate it individually or in a group in writing by means of Information Technology and verbally to laymen and professional audiences;</li> <li>• demonstrate that in reaching outcomes, reasoning and communication are based on a pure world and life philosophy and an established value system.</li> </ul>	
<b>Method of delivery:</b>	Full time	
<b>Method of assessment:</b>	50 : 50	
<b>Module code:</b> <b>MBXH221</b>	<b>Semester 2</b>	<b>NQF-level: 5a(5)</b> <b>Credits: 8</b>
<b>Title:</b>	Coaching science in Hockey	
<b>Module outcomes:</b>	<p>After completion of the module, the student should be able to:</p> <p><b>Gymnastics</b></p> <ul style="list-style-type: none"> <li>• demonstrate knowledge w.r.t different techniques, aiding- and learning methods and analyzing of mistakes;</li> <li>• show the ability to execute basic gymnastic skills;</li> <li>• in a learning/teaching situation improve gymnastic skills through proper planning and exercise;</li> <li>• reflect knowledge of effective planning skills to successfully function as gymnastic coach in a club scenario;</li> <li>• comply to all the requirements to qualify as a General Sports Leader/coach;</li> <li>• demonstrate knowledge regarding safety measures, gymnastic injuries and the treatment thereof;</li> <li>• demonstrate and explain the process of talent identification in gymnastics;</li> <li>• identify and treat injuries related to gymnastics and plan and execute preventive safety measures;</li> <li>• apply sport- scientific principles e.g. Biomechanical knowledge, to round off gymnastic movements</li> <li>• demonstrate an ethical accountable attitude/approach towards the coaching of gymnasts and talent identification;</li> </ul>	

- function effectively in a group or team.

### **Hockey**

- master the scientific programme according to which new skills are acquired, and apply it effectively during practical sessions;
- present effective coaching to children (considering their motor-, social-, psychological level of development) in order to nourish lifelong interest in the sport and establish correct techniques;
- demonstrate knowledge in techniques, assistance rendering; methods to master the game and analyzing of mistakes in hockey;
- improve hockey skills through proper planning and exercise in a learning/teaching situation;
- reflect knowledge of/and effective planning skills to function successfully as hockey coach in a club and or school environment;
- function effectively in a group or team.

### **Cricket**

- master and successfully apply the scientific programme to acquire new skills during practical sessions;
- apply knowledge w.r.t the biomechanical aspects of the game and apply it in an applicable practical manner;
- have knowledge concerning the injuries generally found in the game;
- understand, as a Sport- and Human Movement instructor, how to deal with injury related problems in the capacity of prospective cricket coach;
- show accountability to the Word of God as coach and Christian;
- in acquiring the abovementioned outcome, students have the opportunity to:
- obtain a Coaching Certificate (level 1) from the United Cricket Board of South Africa\*
- obtain a Certificate (level D) from the South African Union of Referees.\*
- \*Both the abovementioned certificates can be obtained from the North West Cricket Union (with additional costs and course attendance) and will be arranged on request.

### **Rugby**

- show the ability to execute basic rugby skills;
- improve rugby skills through proper planning and exercise in a learning/teaching situation;
- reflect knowledge of effective planning skills to successfully function as rugby coach in a club scenario;
- present an effective practical coaching session to other students.

Method of delivery:	Full time	
Method of assessment:	50 : 50	
<b>Module code: MBXC225</b>	<b>Semester 2</b>	<b>NQF-level: 5b(6) Credits: 16</b>
<b>Title:</b>	Game skills application in Cricket	
<b>Module outcomes:</b>	<p>After completion of the module, the student should be able to:</p> <ul style="list-style-type: none"> <li>coach players in the application of game skills, various game aspects and special play in a game situation.</li> </ul>	
<b>Method of delivery:</b>	Full time	
<b>Method of assessment:</b>	50 : 50	
<b>Module code: MBXR324</b>	<b>Semester 2</b>	<b>NQF-level: 6(7) Credits: 32</b>
<b>Title:</b>	Practical coaching in Rugby	
<b>Module outcomes:</b>	<p>After completion of the module, the student should:</p> <ul style="list-style-type: none"> <li>demonstrate exposure to various aspects regarding the coaching career related to the specific sport, and exercise it practically.</li> </ul>	
<b>Method of delivery:</b>	Full time	
<b>Method of assessment:</b>	50:50	
<b>Module code: PSYC121</b>	<b>Semester 2</b>	<b>NQF-level: 5a(5) Credits: 12</b>
<b>Title:</b>	Social and Community Psychology	
<b>Module outcomes:</b>	<p>After completion of the module, the student should be able to:</p> <ul style="list-style-type: none"> <li>demonstrate a fundamental knowledge of and insight into the perspectives and theories on which social and community psychology is based and also to apply the concepts and terminology in well-defined problems or case studies such as poverty, constant change, human rights, power abuse, corruption, racism, xenophobia, etc within a multi-cultural context and an understanding of the inter-relatedness;</li> <li>demonstrate information gathering and processing skills for writing assignments within the context of the social and community psychology, individually or in groups;</li> <li>analyze and evaluate, in individual and group tasks, case studies, examples or problem situations and solutions, to convey this in the form of a report or assignment, verbally or written, within the prescribed conventions and formats;</li> <li>demonstrate a clear attitude and ethical system in all forms of communication and interaction with people.</li> </ul>	
<b>Method of delivery:</b>	Full time	
<b>Method of assessment:</b>	Pc 1 x 2 hours; 1 : 1	

#### 4.4 MODULE OUTCOMES: BACHELOR OF SCIENCE

<b>Module code: ACCC111</b>	<b>Semester 1</b>	<b>HEQF level: 5</b>
<b>Title: Framework, Foundations, Cycle and Financial Reporting</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to: <ul style="list-style-type: none"> <li>• demonstrate a basic knowledge of the principles of the accounting cycle, including the recording of transactions and adjustments, from source documents in the subsidiary journals/ledgers and general ledger of an entity;</li> <li>• understand the accounting Framework and the basic elements of financial statements, including their recognition and measurement criteria;</li> <li>• prepare a set of basic financial statements, in the correct format, based on the information in a trial balance or general ledger, including basic disclosure in the notes to the financial statements;</li> <li>• record transactions incurred by clubs and other non-profit enterprises in the subsidiary ledgers, general ledger and financial statements.</li> </ul>		
<b>Method of delivery:</b> Full-time and part-time		
<b>Assessment modes:</b> Assessment criteria will be provided at the beginning of the semester by means of a working schedule.		
<b>Module code: ACCC121</b>	<b>Semester 2</b>	<b>HEQF: 5</b>
<b>Title: Accounting for Different Entities</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to: <ul style="list-style-type: none"> <li>• apply the definitions, recognition and measurement criteria of the different elements of financial statements, as well as the principles regarding the presentation of financial statements to a given situation;</li> <li>• distinguish between different entity forms, including sole proprietors, partnerships, companies and close corporations, and account for transactions in the records of each of these entity forms;</li> <li>• use information technology effectively in the recording of transactions in the records of an entity;</li> <li>• work effectively together with others as part of a team or group.</li> </ul>		
<b>Method of delivery:</b> Full-time and part-time		
<b>Assessment modes:</b> Assessment criteria will be provided at the beginning of the semester by means of a working schedule.		
<b>Module code: ACCS/ACFS111</b>	<b>Semester 1</b>	<b>HEQF level: 5</b>
<b>Title: Financial Accounting(special): Basic Concepts, Accounting Cycle and Accounting Systems</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to: <ul style="list-style-type: none"> <li>• explain the purpose and function of accounting;</li> <li>• demonstrate a clear understanding of the accounting equation;</li> <li>• create journals, ledgers subsidiary ledgers and control accounts;</li> <li>• design an accounting system that will meet the requirements of a specific entity;</li> <li>• record transactions and prepare financial statements of sole traders.</li> </ul>		
<b>Method of delivery:</b> Full-time and part-time		
<b>Assessment modes:</b> Assessment criteria will be provided at the beginning of the semester by means of a working schedule.		



<b>Module code:</b> ACCS/ACFS121	<b>Semester 2</b>	<b>HEQF level: 5</b>
<b>Title: Financial Accounting(special): Bank Reconciliation, Elementary Financial Reporting and Analysis and Interpretation of Elementary Financial Statements</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>• draw up a cash receipts- and payment journal and to prepare a bank reconciliation statement;</li> <li>• prepare a statement of comprehensive income (income statement), statement of financial position (balance sheet) and a statement of changes in equity for sole traders on a generally acceptable format;</li> <li>• identify and explain financial ratios; explain their purpose and use in the analyses of the liquidity, profitability and solvency of a sole trader.</li> </ul>		
<b>Method of delivery:</b> Full-time and part-time		
<b>Assessment modes:</b> Assessment criteria will be provided at the beginning of the semester by means of a working schedule.		
<b>Module code:</b> BMAN111	<b>Semester 1</b>	<b>HEQF level: 5</b>
<b>Title: Introduction to Business Management</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>• demonstrate a complete and systematic knowledge of the nature of business management, establishment issues of a new business, the different business functions and the basic elements of a business plan;</li> <li>• demonstrate skills, based upon an informed comprehension of theories and concepts, to identify established issues of a new businesses, identify the different business functions and to draw up a basic SWOT analysis and business plan;</li> <li>• undertake a literature and environmental review, prepare a basic report as individual or as a member of a team and communicate in writing as well as verbally the report to a audience.</li> </ul>		
<b>Method of delivery:</b> Full-time and part-time		
<b>Assessment modes:</b> Summative: 1 x 3 hour examination; weight – 50 This is a guideline and can change.		
<b>Module code:</b> BMAN222	<b>Semester 2</b>	<b>HEQF level: 6</b>
<b>Title: Entrepreneurial Opportunities</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>• use the term entrepreneurship in different contexts;</li> <li>• display an entrepreneurial mindset;</li> <li>• report on the elements of entrepreneurship;</li> <li>• understand the functioning of the brain, brain preferences and thinking skills;</li> <li>• manage his/her thoughts and self talk;</li> <li>• identify stumbling blocks and know how to overcome them;</li> <li>• evaluate environments and identify opportunities for creative application in all walks of life;</li> <li>• understand and utilise the characteristics for entrepreneurial success;</li> <li>• use applicable creative techniques to generate ideas and solve problems;</li> <li>• function in idea-generating teams;</li> <li>• demonstrate the use of entrepreneurial language;</li> </ul>		

<ul style="list-style-type: none"> <li>display skills imperative to creative entrepreneurial thinking;</li> <li>plan and execute the initial steps in implementing a solution or project in practice;</li> <li>demonstrate an ethical approach in all operations;</li> <li>communicate effectively on a one-to-one basis and in groups.</li> </ul>		
<b>Method of delivery:</b> Full-time and Part-time		
<b>Assessment modes:</b> Formative: 2 - 3 class tests; weight – 35 1 - 2 assignments; weight – 20 1 - 2 other assignments; weight – 15 Summative: 1 x 2 hour examination; weight – 30		
This is a guideline and can change.		
<b>Module code: BWIA271</b>	<b>Year Module</b>	<b>HEQF level: 6</b>
<b>Title: Financial Mathematics</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to: <ul style="list-style-type: none"> <li>use a generalised cash flow model to describe financial transactions;</li> <li>calculate the time value of money using the concepts of compound interest and discounting;</li> <li>show how interest rates or discount rates may be expressed in terms of different time periods;</li> <li>demonstrate knowledge of real and money interest rates;</li> <li>calculate the present value and the accumulated value of a stream of equal or unequal payments using specified rates of interest and the net present value at a real rate of interest, assuming a constant rate of inflation;</li> <li>demonstrate knowledge of the definitions and use of more important compound interest functions including annuities;</li> <li>demonstrate knowledge of the definition of an equation of value;</li> <li>describe how a loan may be repaid by regular instalments of interest and capital;</li> <li>use discounted cash flow techniques in investment project appraisal;</li> <li>describe the investment and risk characteristics of the following types of asset available for investment purposes: <ul style="list-style-type: none"> <li>fixed interest government borrowings;</li> <li>fixed interest borrowing by other bodies;</li> <li>shares and other equity-type finance;</li> <li>derivatives;</li> </ul> </li> <li>analyse elementary compound interest problems;</li> <li>calculate the delivery price and the value of a forward contract using arbitrage free pricing methods;</li> <li>demonstrate knowledge of the term structure of interest rates;</li> <li>demonstrate knowledge of simple stochastic models for investment returns;</li> <li>as an individual or as a member of a group demonstrate the ability to: <ul style="list-style-type: none"> <li>solve well-defined but unfamiliar problems using correct procedures and appropriate evidence;</li> <li>perform a critical analysis and synthesis of information;</li> <li>present information using basic information technology;</li> <li>present and communicate information reliably and coherently by using academic/professional discourse conventions and formats appropriately.</li> </ul> </li> </ul>		
<b>Method of delivery:</b> Full-time		

<b>Module code: BWIA311</b>	<b>Semester 1</b>	<b>HEQF level: 7</b>
<b>Title: Models: Survival Models and Stochastic Processes</b>		
<p><b>Module outcomes:</b>  On completion of the module the student should be able to demonstrate a well-rounded and systematic knowledge and coherent and critical understanding of:</p> <ul style="list-style-type: none"> <li>• the principles of actuarial modelling;</li> <li>• the general principles of stochastic processes, and their classification into different types;</li> <li>• the definition and application of a Markov chain;</li> <li>• the definition and application of a Markov process;</li> <li>• the concept of survival models;</li> <li>• the estimation procedures for lifetime distributions;</li> <li>• the derivation of maximum likelihood estimators for the transition intensities in models of transfers between states with piecewise constant transition intensities;</li> <li>• the Binomial model of mortality inclusive of the derivation of a maximum likelihood estimator for the probability of death and the comparison of the Binomial model with the multiple state models;</li> <li>• how to estimate transition intensities depending on age, exactly or using the census approximation;</li> <li>• how to test crude estimates for consistency with a standard table or a set of graduated estimates;</li> <li>• the process of graduation.</li> </ul> <p>The student will also, as an individual or as a member of a group, demonstrate the ability to:</p> <ul style="list-style-type: none"> <li>• deal with unfamiliar concrete and abstract problems and issues using evidence based solutions and theory-driven arguments;</li> <li>• use well-developed information retrieval skills;</li> <li>• perform a critical analysis and synthesis of quantitative and/or qualitative data;</li> <li>• use appropriate IT skills to present results using prescribed formats;</li> <li>• present and communicate information and their own ideas and opinions in well structured arguments;</li> <li>• show an awareness of audience and use academic/professional discourse appropriately.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Module code: BWIN123</b>	<b>Semester 2</b>	<b>HEQF level: 5</b>
<b>Title: Project: Financial Mathematics</b>		
<p><b>Module outcomes:</b>  On completion of the module the student should be able to:</p> <ul style="list-style-type: none"> <li>• demonstrate knowledge and insight into the calculation of interests, time value of money, nominal and effective interest rates and annuities and loans (- the concepts are presented in the form of a self-created project);</li> <li>• demonstrate skills to handle vaguely defined problems and to integrate concepts from the financial-economic world that can be quantified with the aid of mathematical models and solved by means of computer spreadsheet-based implementation. Specific attention is given to playing off simulation versus the analytical, as well as to discrete versus stochastic modelling of such problems.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment modes:</b> Summative: 1 x 2 hour examination; weight – 50		
This is a guideline and can change.		

<b>Module code: BWIN313</b>	<b>Semester 1</b>	<b>HEQF level: 7</b>
<b>Title: Financial Mathematics</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>• demonstrate knowledge and insight into the concepts fundamental to actuarial philosophy and actuarial scientific methods, as well as generalized cash-flow models, interests and cash flow, theory of interest and compound interest functions, non-annual interest payments, discounted cash flow techniques, capital redemption insurance, annuities and stochastic interest rate models;</li> <li>• demonstrate knowledge and insight into the concepts and notions fundamental to regression theory, fixed-interest-bearing securities, term structure of interest rates, options and futures contracts, as well as the functioning thereof;</li> <li>• demonstrate skills necessary to describe and implement actuarial scientific methods and philosophy in several investment problems.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment modes:</b> Summative: 1 x 3 hour examination; weight – 50 This is a guideline and can change.		
<b>Module code: BWIN321</b>	<b>Semester 2</b>	<b>HEQF level: 7</b>
<b>Title: Project: Stock Exchange Modelling and Analysis</b>		
<b>Module outcomes:</b> This module builds on the concepts that were acquired in BWIN123 to a more advanced level. Teamwork play a very important roll en there are more required from students in respect of self study and research. The focus is on usage and development of more advanced system to aide in decision making. The modelling and analysis of the behaviour of securities on the securities exchange will form the framework in which the training will take place. On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>• manage own portfolio on the securities exchange and be able to work effectively in a team where the focus is on the integration of knowledge of different disciplines to solve specific problems in the financial risk environment.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment modes:</b> Summative: 1 x 2 hour examination; weight – 50 This is a guideline and can change.		
<b>Module code: BWIN324</b>	<b>Semester 2</b>	<b>HEQF level: 7</b>
<b>Title: Project: Stock Exchange Modelling and Analysis</b>		
<b>Module outcomes:</b> The module elaborates on the principles laid down in BWN123 at a more advanced level. Teamwork plays a greater role, and more is expected from students in terms of self-study and research. The focus here concerns the use and development of more advanced systems to support decision-making. Modelling and analysis of the performance of securities at the equity market will be used as the framework of training. On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>• manage independently his own portfolio at the stock exchange and to work effectively in a team, with the focus on the integration of knowledge from different disciplines in the financial risk management environment.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment modes:</b> Summative: 1 x 3 hour examination; weight – 50 This is a guideline and can change.		

<b>Module code: ECON111</b>	<b>Semester 1</b>	<b>HEQF level: 5</b>
<b>Title: Introduction to Economics</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>• know how to get access to the resources required for a successful management / entrepreneurship career;</li> <li>• discover opportunities in different industries and fields of study;</li> <li>• discover his/her interests, personality, talents and values and bring in connection with the chosen industry and field of study;</li> <li>• develop a personal development plan with a vision and goals;</li> <li>• plan income and expenses wisely and improve the use of numbers in everyday life;</li> <li>• implement his/her own personal development plan by communicating with various audiences what has been learned, improve functional numeric, receive and give relevant feedback, understand and express himself/herself better, understand his/her emotions, apply self-control, demonstrate good interpersonal skills and effectively use functional business language.</li> </ul>		
<b>Method of delivery:</b> Full-time and Part-time		
<b>Assessment modes:</b> Formative: 2 - 3 class tests; weight – 35 1 - 2 assignments; weight – 20 1 - 2 other assignments; weight – 15 Summative: 1 x 2 hour examination; weight – 30		
This is a guideline and can change.		
<b>Module code: ECON121</b>	<b>Semester 1</b>	<b>HEQF level: 5</b>
<b>Title: Basic Micro- and Macro-economics</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>• demonstrate fundamental knowledge and insight into the principles and theories on which microeconomics, macroeconomics and the Simple Macroeconomic Model are based and also to apply concepts and terminology in answering well-defined problems and case-studies;</li> <li>• demonstrate fundamental knowledge of the interaction between and interdependence of economic participants and economic indicators;</li> <li>• demonstrate skills to analyse and evaluate case studies, examples and problems on certain macro- and micro-economic phenomena, with reference to demand, supply, equilibrium, consumption, production, price elasticity and various forms of competition;</li> <li>• demonstrate a fundamental understanding of the causes of inflation, unemployment and economic growth and knowledge to recommend policies with regard to these;</li> <li>• demonstrate skills to apply the Simple Macroeconomic Model in economic analyses and predictions;</li> <li>• demonstrate information-gathering and processing skills for writing assignments within the context of micro- and macroeconomics, individually and in groups.</li> </ul>		
<b>Method of delivery:</b> Full-time and Part-time		
<b>Assessment modes:</b> Formative: Summative: 1 x 3 hour examination; weight – 50 This is a guideline and can change.		
<b>Module code: ECON211</b>	<b>Semester 1</b>	<b>HEQF level: 6</b>
<b>Title: Macro-economics</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		

<ul style="list-style-type: none"> <li>analyse the interrelationship relationship between different economic variables in an open economy;</li> <li>evaluate the effects of various policy steps on the functioning of the economy in the long- and short term;</li> <li>identify and apply different policy measures to address macro-economic problems.</li> </ul>		
<b>Method of delivery:</b> Full-time and Part-time		
<b>Assessment modes:</b> Formative: Summative: 1 x 3 hour examination; weight – 50 This is a guideline and can change.		
<b>Module code: ECON221</b>	<b>Semester 2</b>	<b>HEQF level: 6</b>
<b>Title: Micro-economics</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to: <ul style="list-style-type: none"> <li>demonstrate a sound knowledge and understanding of relevant terms, rules, concepts, principles and theories to describe microeconomics and its application in the 'real world';</li> <li>use theory-driven arguments and IT skills to collect, organise, analyse and interpret as individual and/or group, information regarding microeconomic issues;</li> <li>demonstrate problem solving abilities regarding consumer demand and choices, market structures and the behaviour of competitors, equilibrium analyses, micro-policy, and government intervention in the economy in the form of taxation/subsidisation;</li> <li>effectively communicate findings and/or solutions, coherently and reliably to an audience of peers and academics, using individual and/or group methods.</li> </ul>		
<b>Method of delivery:</b> Full-time and Part-time		
<b>Assessment modes:</b> The formative and summative assessment methods and -weights will be made available in the study guides and on EFundi.		
<b>Module code: ECON311</b>	<b>Semester 1</b>	<b>HEQF level: 7</b>
<b>Title: Fiscal and Monetary Policy</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to: <ul style="list-style-type: none"> <li>demonstrate well-rounded and systematic knowledge of market failure and the role of government in the economy;</li> <li>demonstrate as an individual and/or part of a group, the practical skills to identify instances of market failure in case studies and to recommend the appropriate forms of government intervention; and</li> <li>demonstrate the competence to evaluate different forms of government intervention in the economy and to communicate recommendations to policymakers and stakeholders in written reports and oral presentations using the appropriate IT.</li> </ul>		
<b>Method of delivery:</b> Full-time and Part-time		
<b>Assessment modes:</b> The formative and summative assessment methods and -weights will be made available in the study guides and on EFundi.		
<b>Module code: ECON321</b>	<b>Semester 2</b>	<b>HEQF level: 7</b>
<b>Title: Economic Analysis</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to: <ul style="list-style-type: none"> <li>demonstrate well-rounded and systematic knowledge of classical linear regression models and specification testing of regression results;</li> <li>demonstrate as individual and/or part of a group, the practical skills to estimate and test a regression model with Eviews software, undertake specification testing, including testing for stationarity, structural breaks,</li> </ul>		

<p>multicollinearity, heteroscedasticity and autocorrelation, and to formulate solutions for practical problems in the field of Economic analyses;</p> <ul style="list-style-type: none"> <li>demonstrate the competence to identify a research question in the fields of Economics, Risk management or International trade, retrieve relevant information, apply basic statistics and econometric methods to analyse and interpret the research results, and then communicate the findings in an ethically-sound oral presentation using the appropriate IT as well as in a mini-dissertation of 20 pages.</li> </ul>		
<b>Method of delivery:</b> Full-time and Part-time		
<b>Assessment modes:</b> The formative and summative assessment methods and -weights will be made available in the study guides and on EFundi.		
<b>Module code: EKR211</b>	<b>Semester 1</b>	<b>HEQF level: 6</b>
<b>Title: Introduction to Risk Management</b>		
<p><b>Module outcomes:</b> On completion of the module the student should be able to:</p> <ul style="list-style-type: none"> <li>demonstrate a clear understanding of what risk entails and how to manage risk strategically in a corporate environment in South Africa;</li> <li>explain why risk management plays an important role in the business environment;</li> <li>identify and distinguish between various types of risks;</li> <li>demonstrate both theoretical knowledge and practical application of the risk management process, i.e. the identification, evaluation and control of risk in a variety of scenarios;</li> <li>demonstrate a clear understanding of the various forms of risk financing strategies, the cost associated with the different strategies and the appropriateness thereof for different risks.</li> </ul>		
<b>Method of delivery:</b> Full-time and Part-time		
<b>Assessment modes:</b> The formative and summative assessment methods and -weights will be made available in the study guides and on EFundi.		
<b>Module code: EKR221</b>	<b>Semester 2</b>	<b>HEQF level: 6</b>
<b>Title: Investment Management</b>		
<p><b>Module outcomes:</b> On completion of the module the student should be able to:</p> <ul style="list-style-type: none"> <li>demonstrate a solid knowledge of the general principles of Investment management;</li> <li>explain the required rate of return as investment criterion;</li> <li>discuss the fundamental principles of investment in terms of risk/return and the time value of money;</li> <li>explain diversification;</li> <li>discuss and analyse the investment management process;</li> <li>discuss the organisation and functioning of security markets;</li> <li>distinguish between and evaluate the different investment theories;</li> <li>discuss valuation principles and practices in investment management;</li> <li>explain and discuss fundamental analysis;</li> <li>explain and discuss technical analysis;</li> <li>discuss portfolio management and portfolio evaluation from the perspective of the investment manager.</li> </ul>		
<b>Method of delivery:</b> Full-time and Part-time		
<b>Assessment modes:</b> The formative and summative assessment methods and -weights will be made available in the study guides and on EFundi.		

<b>Module code: EKR311</b>	<b>Semester 1</b>	<b>HEQF level: 7</b>
<b>Title: Bank Risk Management</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>demonstrate a sound and systematic knowledge and understanding of how the Assets and Liabilities Committee (ALCO) manages their assets and liabilities to address banking risks, the role that the management of these financial assets and liabilities plays in the South African economy, as well as the financial and other related risks in a financial institution;</li> <li>demonstrate well-developed skills to solve problems by strategically managing the process of minimising financial risks, maximising the interest income and equity of financial institutions, and exhibiting a thorough understanding of the regulatory environment in which banks operate;</li> <li>use individual and group methods to effectively communicate information with regard to bank risk management coherently and reliably in appropriate formats.</li> </ul>		
<b>Method of delivery:</b> Full-time and Part-time		
<b>Assessment modes:</b> The formative and summative assessment methods and -weights will be made available in the study guides and on EFundi.		
<b>Module code: EKR321</b>	<b>Semester 2</b>	<b>HEQF level: 7</b>
<b>Title: Financial Markets</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>demonstrate a well-rounded and systematic knowledge and understanding of the mechanics of the South African Money and Capital Markets, including SAFEX and the Bond Exchange (the Johannesburg Stock Exchange and shares were covered in EKR211), and understand and use the mechanics of the products and instruments, including derivatives, used in these markets and the regulatory environment;</li> <li>demonstrate the ability to work as an analyst, a market dealer, stock broker and back office official in the banking and treasury environment;</li> <li>in unfamiliar concrete and abstract scenarios, apply basic portfolio management using the products and instruments of the above-mentioned markets;</li> <li>work in groups and/or as an individual and effectively communicate information in an ethically-sound manner, using the appropriate IT.</li> </ul>		
<b>Method of delivery:</b> Full-time and Part-time		
<b>Assessment modes:</b> The formative and summative assessment methods and -weights will be made available in the study guides and on EFundi.		
<b>Module code: FINM221</b>	<b>Semester 2</b>	<b>HEQF level: 6</b>
<b>Title: Financial Management: Introduction</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>understand the role of financial management and the financial manager in a business organisation and identify the primary goal of financial management;</li> <li>understand the concept of the time value of money and perform calculations;</li> <li>understand the relationship between risk and return and evaluate the risk and return of organisations based on the necessary calculations;</li> <li>understand the basic accounting statements and concepts and perform an evaluation of financial performance, using financial statement analysis to assess the current financial condition of the firm;</li> <li>demonstrate a knowledge of the characteristics of the principle forms of finance used by</li> </ul>		



<p>companies and the ways in which they may be issued;</p> <ul style="list-style-type: none"> <li>• demonstrate a basic knowledge of the characteristics of financial instruments and how they can be applied by companies to hedge against risk;</li> <li>• demonstrate a complete and systematic knowledge of the factors to be considered by a company when deciding on its capital structure;</li> <li>• demonstrate the skills to calculate the cost of the different sources of finance and the weighted average cost of capital of a company;</li> <li>• understand and apply the various techniques in evaluating capital investment projects.</li> </ul>		
<b>Method of delivery:</b> Full-time and Part-time		
<b>Assessment modes:</b> Assessment criteria will be provided at the beginning of the semester by means of a working schedule.		
<b>Module code:</b> ITRW112	<b>Semester 1</b>	<b>HEQF level:</b> 5
<b>Title: Introduction to Programming</b>		
<p><b>Module outcomes:</b> On completion of the module the student should be able to:</p> <ul style="list-style-type: none"> <li>• demonstrate knowledge of the different components of the computer, an information system and programming languages and their uses;</li> <li>• demonstrate knowledge of the utilization of spreadsheets by applying knowledge of tables, computations, transfer of data between different applications and application environments, functions and graphs to process and present data;</li> <li>• demonstrate the ability to solve problems by analyzing and implementing structured programming techniques, data manipulation and data representation, event-driven applications in the spreadsheet developments environment;</li> <li>• proof insight into the ethical issues of the broader IT-world and be aware of the risks and dangers that challenge the IT-world;</li> <li>• demonstrate communication skills in writing a report after a project is completed.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment modes:</b> Summative: 1 x 3 hour examination; weight – 50 This is a guideline and can change.		
<b>Module code:</b> ITRW123	<b>Semester 2</b>	<b>HEQF level:</b> 5
<b>Title: Graphical Interface Programming I</b>		
<p><b>Module outcomes:</b> On completion of the module the student should be able to:</p> <ul style="list-style-type: none"> <li>• demonstrate knowledge to write a computer program that requires theoretical foreknowledge;</li> <li>• solve problems by applying theoretical foreknowledge;</li> <li>• demonstrate that he/she has sufficient foreknowledge and insight into the graphical interface environment to develop computerized systems in a object-oriented computer language;</li> <li>• demonstrate an understanding and the ability to implement the repeat, conditional and sequential structures;</li> <li>• demonstrate that aspects like graphical interface design, event-driven programming procedures and object oriented programming as a basis have been established.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment modes:</b> Summative: 1 x 3 hour examination; weight – 50 This is a guideline and can change.		

<b>Module code: ITRW124</b>	<b>Semester 2</b>	<b>HEQF level: 5</b>
<b>Title: Programming I</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>• demonstrate a fundamental knowledge of the basic structures, data types, methods, classes and objects and their uses an object oriented programming language;</li> <li>• demonstrate the ability to solve unknown problems by designing and implementing object oriented programs, do error tracing, testing and execute applications;</li> <li>• have insight into and understand the issues related to the broader IT-environment and be aware of risks and dangers of the IT-environment.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment modes:</b> Summative: 1 x 3 hour examination; weight – 50 This is a guideline and can change.		
<b>Module code: ITRW211</b>	<b>Semester 1</b>	<b>HEQF level: 6</b>
<b>Title: Graphical Interface Programming II</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>• demonstrate a solid knowledge of multi-threading, string processing, databases, data structures and sets and show intelligent insight into the theory of graphical programming interfaces;</li> <li>• design systems that is directed to industry and is user friendly and apply professional and ethical codes;</li> <li>• identify problems, critically analyze them and suggest solutions by designing and developing computer applications with the emphasis on user friendly interfaces;</li> <li>• demonstrate the ability to communicate/demonstrate solutions/programmes as individual or in a group by using applicable academic/professional oral or written reasoning.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment modes:</b> Summative: 1 x 3 hour examination; weight – 50 This is a guideline and can change.		
<b>Module code: ITRW212</b>	<b>Semester 1</b>	<b>HEQF level: 6</b>
<b>Title: Programming II</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>• demonstrate knowledge of search, sort and recursion methods and the use of an object oriented programming language and concepts to solve basic problems;</li> <li>• analyze and solve a problem and write a structured object oriented program for the solution;</li> <li>• discuss, use and do calculations in different numbering systems such as the binary numbering system;</li> <li>• solve problems that need file and exception handling in an object oriented programming language.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment modes:</b> Summative: 1 x 4 hour examination; weight – 50 This is a guideline and can change.		

<b>Module code: ITRW213</b>	<b>Semester 1</b>	<b>HEQF level: 6</b>
<b>Title: Systems Analysis and Design I</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>• demonstrate sufficient knowledge and insight into project management techniques and apply the phases and techniques of the system development life cycle when the system is planned, analysed and developed;</li> <li>• demonstrate that he/she can correctly apply and use the phases and techniques of a project as individual or in a group, manage a practical project by applying project management techniques and think and behave in a innovative and creative way when a computerized system is designed and developed;</li> <li>• successfully write reports of projects and present it orally;</li> <li>• apply a professional attitude towards clients and use computer resources ethically and responsible when they create, complete and deliver IT projects.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment modes:</b> Summative: 1 x 3 hour examination; weight – 50 This is a guideline and can change.		
<b>Module code: ITRW214</b>	<b>Semester 1</b>	<b>HEQF level: 6</b>
<b>Title: Decision Support Systems I</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>• demonstrate sufficient knowledge and insight into decision support systems and discuss the value of such systems with a company;</li> <li>• formulate LP problems;</li> <li>• solve LP problems (graphically and by using the simplex method);</li> <li>• do sensitivity analysis on LP problems;</li> <li>• solve transportation and assignments problems and integer programming problems while using network models and network applications.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment modes:</b> Summative: 1 x 3 hour examination; weight – 50 This is a guideline and can change.		
<b>Module code: ITRW222</b>	<b>Semester 2</b>	<b>HEQF level: 6</b>
<b>Title: Data Structures and Algorithms</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>• demonstrate sufficient knowledge and insight of data structures (vectors, matrices, linked lists, stacks and queues) and the complexities of data structures by setting up and manipulating object oriented methods to create abstract data types for the named data structures to solve different problems.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment modes:</b> Summative: 1 x 3 hour examination; weight – 50 This is a guideline and can change.		

<b>Module code: ITRW225</b>	<b>Semester 2</b>	<b>HEQF level: 6</b>
<b>Title: Systems Analysis and Design II</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to: <ul style="list-style-type: none"> <li>• demonstrate sufficient knowledge and insight into project management techniques and the phases of the system life cycle to apply when a system is designed and implemented;</li> <li>• demonstrate that he/she can correctly apply and use the phases and techniques of a project as individual or in a group, manage a practical project by applying project management techniques and think and behave in a innovative and creative way when a computerized system is designed and developed;</li> <li>• successfully write reports of projects and present it orally;</li> <li>• apply a professional attitude towards clients and use computer resources ethically and responsible when they create, complete and deliver IT projects.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment modes:</b> Summative: 1 x 3 hour examination; weight – 50 This is a guideline and can change.		
<b>Module code: ITRW311</b>	<b>Semester 1</b>	<b>HEQF level: 7</b>
<b>Title: Data Bases I</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to: <ul style="list-style-type: none"> <li>• apply a rounded and systematically knowledge and insight of entity relation modelling; normalization of database tables; write SQL and PL/SQL statements; apply procedures to design databases and retrieve information to solve known and abstract computer problems within the database environment.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment modes:</b> Summative: 1 x 3 hour examination; weight – 50		
<b>Module code: ITRW313</b>	<b>Semester 1</b>	<b>HEQF level: 7</b>
<b>Title: Expert Systems</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to: <ul style="list-style-type: none"> <li>• demonstrate sufficient knowledge of the important issues of the subject area as well as the historical background of the subject area;</li> <li>• know the basic concepts in the field of knowledge based systems;</li> <li>• understand the basis techniques in the field (for example knowledge representation and inference) and demonstrate the ability to apply practical problems;</li> <li>• develop simple computer programmes as expert systems by using suitable development tools or programming languages.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment modes:</b> Summative: 1 x 3 hour examination; weight – 50 This is a guideline and can change.		

<b>Module code: ITRW315</b>	<b>Semester 1</b>	<b>HEQF level: 7</b>
<b>Title: Communication Skills</b>		
<p><b>Module outcomes:</b> On completion of the module the student should be able to:</p> <p><b>(Learning unit A: Personal and Interpersonal efficiency)</b></p> <ul style="list-style-type: none"> <li>• demonstrate a basic knowledge and insight of a principal bases value system to be used to set his/her objectives;</li> <li>• demonstrate basic knowledge and insight to speak out on the importance of a skill in good interpersonal relationships and conflict management techniques and apply it on a small scale;</li> </ul> <p><b>(Learning unit B: Technical Communication)</b></p> <ul style="list-style-type: none"> <li>• demonstrate that basic skills in communication of writing and presenting have been achieved;</li> <li>• confidently write structured reports.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment modes:</b> Summative: 1 x 3 hour examination; weight – 50 This is a guideline and can change.		
<b>Module code: ITRW316</b>	<b>Semester 1</b>	<b>HEQF level: 7</b>
<b>Title: Operating Systems</b>		
<p><b>Module outcomes:</b> On completion of the module the student should be able to:</p> <ul style="list-style-type: none"> <li>• demonstrate a well rounded and systematically knowledge and insight into the principals of operating systems and the ways operating systems are implemented;</li> <li>• demonstrate she skills to install operating systems on computers;</li> <li>• demonstrate the skills to use Linux and utility programmes in the execution of tasks.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment modes:</b> Summative: 1 x 3 hour examination; weight – 50 This is a guideline and can change.		
<b>Module code: ITRW317</b>	<b>Semester 1</b>	<b>HEQF level: 7</b>
<b>Title: Artificial Intelligence</b>		
<p><b>Module outcomes:</b> On completion of the module the student should be able to:</p> <ul style="list-style-type: none"> <li>• demonstrate a well rounded and systematically knowledge of the concepts and techniques (like knowledge representation and search) within the field of Artificial Intelligence;</li> <li>• demonstrate the ability to do problem solving as an individual by writing simple computer programmes in an Artificial Intelligence language suck as Prolog.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment modes:</b> Summative: 1 x 3 hour examination; weight – 50 This is a guideline and can change.		

<b>Module code: ITRW321</b>	<b>Semester 2</b>	<b>HEQF level: 7</b>
<b>Title: Data Bases II</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>• apply a rounded and systematically knowledge and insight of transaction management, management of simultaneous use, distributed databases management systems and database administration as an individual or in a group, applied on the administration of databases to solve known and abstract computer problems within the database environment.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Module code: ITRW322</b>	<b>Semester 2</b>	<b>HEQF level: 7</b>
<b>Title: Computer Networks</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>• demonstrate a rounded and systematically knowledge of the workings of example networks of different reference frameworks for computer networks as well as network protocols that play a role on the different levels of the reference framework;</li> <li>• complete a project that has different network possibilities as an individual or in a group.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment modes:</b> Summative: 1 x 3 hour examination; weight – 50 This is a guideline and can change.		
<b>Module code: ITRW324</b>	<b>Semester 2</b>	<b>HEQF level: 7</b>
<b>Title: IT Developments</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>• demonstrate skills to do searches on the Internet and other sources to obtain supportive material to add to the knowledge and to solve problems;</li> <li>• demonstrate the ability to study, investigate, master and implement new technology with self confidence and independently;</li> <li>• write correct reports on subjects that have been researched and mastered and systems that have been designed and implemented and to orally discuss and demonstrate these reports with fellow students.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment modes:</b> Summative: Approximately 6 projects (no written examination) This is a guideline and can change.		
<b>Module code: ITRW325</b>	<b>Semester 2</b>	<b>HEQF level: 7</b>
<b>Title: Decision Support Systems II</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>• demonstrate a rounded and systematically knowledge and insight into the architecture of a decision support system;</li> <li>• demonstrate the skills to solve, individually or in a group, different types problems by choosing an appropriate decision support model;</li> <li>• demonstrate the ability to construct a decision support system by integrating all previous obtained knowledge.</li> </ul>		
<b>Method of delivery:</b> Full-time		

<b>Assessment modes:</b> Summative: 1 x 3 hour examination; weight – 50 This is a guideline and can change.		
<b>Module code: STTK211</b>	<b>Semester 1</b>	<b>HEQF level: 6</b>
<b>Title: Probability Theory</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>• demonstrate knowledge of concepts such as outcome space, events, probability measures, counting processes, stochastic outcomes of events and the independence of events;</li> <li>• demonstrate knowledge of important probability theorems, such as the law of total probability and the theorem of Bayes;</li> <li>• demonstrate knowledge of stochastic variables, distribution functions and mass functions (Special attention will be given to discrete stochastic variables and the following distributions will be discussed in depth: binomial, geometric, negative binomial, hypergeometric and Poisson distributions. The following continuous random variables, together with their distribution functions will be discussed in detail: exponential, gamma and normal distributions. Functions of these variables will also be discussed.);</li> <li>• demonstrate knowledge of probability structures of two or more stochastic variables defined in the same outcome space and functions of joint distributions;</li> <li>• demonstrate knowledge of conditional distributions and the ability to apply probability calculations to conditional distributions;</li> <li>• demonstrate knowledge of ordered statistics and their application;</li> <li>• demonstrate knowledge of the expected value and standard deviation of all the important mass functions and density functions previously discussed;</li> <li>• demonstrate knowledge of covariance and correlation of two stochastic variables, together with conditional expectation values and moment generating functions and the use of the first and second moment;</li> <li>• demonstrate knowledge of two of the most important theorems in probability theory, namely the so-called law of large numbers and the central limit theorem.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment modes:</b> Summative: 1 x 3 hour examination; weight – 50 This is a guideline and can change.		
<b>Module code: STTN111</b>	<b>Semester 1</b>	<b>HEQF level: 5</b>
<b>Title: Descriptive Statistics</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>• demonstrate fundamental knowledge of the most important elementary statistical techniques that are used daily, such as sampling methods, graphical representation of data, descriptive measures of location and spread, least squares line fitting, prediction from least squares lines, the coefficient of correlation, multiple linear regression with applications in prediction, time series data, movement components to predict future outcomes, practical considerations regarding sample surveys and sample sizes;</li> <li>• demonstrate problem solving skills by analysing known and unknown problems, using knowledge to apply sampling methods, graphical representation of data, descriptive measures of location and spread, least squares line fits, predictions using least squares fits, correlation coefficients, interpretation of multiple linear regression output, movement component calculations, prediction of future outcomes time series data and sample size determination to real life data.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment modes:</b> Summative: 1 x 2 hour examination; weight – 50		

This is a guideline and can change.		
<b>Module code: STTN121</b>	<b>Semester 2</b>	<b>HEQF level: 5</b>
<b>Title: Introductory Statistical Inference</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to: <ul style="list-style-type: none"> <li>• demonstrate fundamental knowledge of probability and probability distributions, the central limit theorem, estimation of population parameters by the use of point and interval estimation, hypothesis testing for population means and proportions for one and two samples, one-way analysis of variance (ANOVA) and categorical data analysis, contingency tables and basic tests on categorical data;</li> <li>• demonstrate problem solving skills by analysing known and unknown problems, using knowledge to do simple probability calculations, apply the central limit theorem, estimate population parameters using point and interval estimation, test hypotheses for population means and population proportions for one and two samples, apply one-way analysis of variance (ANOVA) methods and interpret computer output, apply methods for categorical data analysis such as contingency tables and basic tests on categorical data.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Module code: STTN221</b>	<b>Semester 2</b>	<b>HEQF level: 6</b>
<b>Title: Sampling Theory and Statistical Inference</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to: <ul style="list-style-type: none"> <li>• demonstrate fundamental knowledge of distributions derived from the normal distribution, various sampling methods and their properties, the method of moments and method of maximum likelihood to estimate parameters, efficiency of an estimator and sufficient statistics;</li> <li>• demonstrate problem solving skills by analysing known and unknown problems, using knowledge to derive properties of distributions derived from the normal distribution, estimate various parameters when employing different sampling techniques, estimate parameters by means of the method of moments and maximum likelihood, determine if an estimator is efficient and find sufficient statistics in a variety of problems;</li> <li>• apply these concepts to real world data.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment modes:</b> Summative: 1 x 3 hour examination; weight – 50		
This is a guideline and can change.		



<b>Module code: STTN311</b>	<b>Semester 1</b>	<b>HEQF level: 7</b>
<b>Title: Statistical Inference</b>		
<p><b>Module outcomes:</b> On completion of the module the student should be able to:</p> <ul style="list-style-type: none"> <li>demonstrate fundamental knowledge of the following statistical concepts, such as complete and sufficient statistics, testing hypotheses, the duality of confidence intervals and hypothesis testing, informal techniques for assessing goodness of fit, methods for summarizing data, measures of location and spread, comparing two samples, comparing paired samples, experimental designs, the analysis of categorical data and Bayesian inference;</li> <li>demonstrate his/her ability to construct complete and sufficient statistics, use the Neyman-Pearson paradigm to perform a hypothesis test, apply the connection between hypothesis testing and confidence intervals in the context of estimation, make conclusions using descriptive methods of statistics, apply methods for summarizing data, calculate measures of location and spread, implement methods to compare two samples as well as paired samples, understand different experimental designs, analyse categorical data and use methods of Bayesian inference.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment modes:</b> Summative: 1 x 3 hour examination; weight – 50 This is a guideline and can change.		
<b>Module code: STTK321</b>	<b>Semester 2</b>	<b>HEQF level: 7</b>
<b>Title: Linear Models</b>		
<p><b>Module outcomes:</b> On completion of the module the student should be able to:</p> <ul style="list-style-type: none"> <li>understand the simple and multiple linear regression models, as well as the reasoning behind the assumptions in the regression model and the derivation of the distributions of the test statistics used in the inferences related to linear regression models;</li> <li>derive the least squares and maximum likelihood estimates of the parameters in a linear regression model;</li> <li>describe a linear regression model in matrix and vector notation;</li> <li>diagnose any departures from the assumptions and then apply remedial measures to correct the departures from the assumptions;</li> <li>understand the concepts of simultaneous inference as applied to linear regression models and describe how qualitative and quantitative predictor variables are dealt with within the linear regression framework;</li> <li>understand the fundamental concepts underlying nonlinear regression, describe the process of estimation of parameters in nonlinear regression models, describe the Logistic regression models and Poisson regression models, understand how these models are related to the generalized linear model and perform inferences associated with these models;</li> <li>implement linear regression models by simple calculation and using computer software, practically diagnose models using the diagnostics steps described in the theory and then apply the remedial measures in a practical context;</li> <li>implement nonlinear regression models by simple calculation and using computer software.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment modes:</b> Summative: 1 x 3 hour examination; weight – 50 This is a guideline and can change.		

<b>Module code: STTK322</b>	<b>Semester 2</b>	<b>HEQF level: 7</b>
<b>Title: Statistics Project</b>		
<p><b>Module outcomes:</b>  On completion of the module the student should be able to:</p> <ul style="list-style-type: none"> <li>• carry out a successful statistical project, from design to analysis;</li> <li>• identify which models are appropriate for a given data set, and make use of SAS or R to be able to implement the appropriate model;</li> <li>• reconcile the theory of the basic statistical analyses learnt in previous modules with the practical nature of the project and apply these techniques;</li> <li>• compile/compose appropriate documentation for the project and develop oral presentation skills by presenting the project in a professional setting;</li> <li>• demonstrate the necessary computer skills required to deal with statistical analyses using SAS and R, but also to deal with a wider variety of problems;</li> <li>• apply computer based simulation studies using the languages R and SAS.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment modes:</b> Summative: 1 x 3 hour examination; weight – 50 This is a guideline and can change.		
<b>Module code: TGWN222</b>	<b>Semester 2</b>	<b>HEQF level: 6</b>
<b>Title: Numerical Analysis</b>		
<p><b>Module outcomes:</b>  On completion of the module the student should be able to:</p> <ul style="list-style-type: none"> <li>• demonstrate fundamental knowledge and insight into the theory of basic numerical methods for general occurring mathematical problems, amongst which are the solving of non-linear equations, determining interpolation polynomials and the numerical determining of definite integrals;</li> <li>• demonstrate problem solving skills by solving non-linear equations through iteration techniques, determining the interpolation polynomials of Lagrange and Newton, determining definite integrals by means of the trapezium method, Simpson's rule, Romberg integration and Gauss quadrature, and the computer application of these techniques;</li> <li>• show a fondness for this field of study and demonstrate insight into the relation between reality and abstraction, model and solution;</li> <li>• reveal a Christian or alternative perspective on the subject.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment modes:</b> Summative: 1 x 3 hour examination; weight – 50 This is a guideline and can change.		

<b>Module code: WISN111</b>	<b>Semester 1</b>	<b>HEQF level: 5</b>
<b>Title: Introductory Algebra and Analysis I</b>		
<p><b>Module outcomes:</b> On completion of the module the student should be able to:</p> <ul style="list-style-type: none"> <li>• demonstrate fundamental knowledge of basic set theory and logic, the system of integer and real numbers, mathematical induction, permutations and combinations and the binomial theorem, the concept of functions, circle measure and trigonometric functions, inverse functions and inverse trigonometric functions, polynomials in one variable, rational functions, partial fractions, vectors and the operations between vectors, complex numbers, representations by polar coordinates, limits, continuity and differentiability of standard functions, indefinite integrals of simple functions, the theorem of L'Hospital and its applications, the use of derivatives in optimisation and in sketching curves;</li> <li>• demonstrate problem solving skills by analysing familiar and unfamiliar problems, by using the knowledge of techniques to apply set notation and logic to systems of numbers, by proving theorems with mathematical induction, by determining the number of arrangements and selections from a set, by developing powers of first degree polynomials, by finding the limits of all the above mentioned functions, also by using the theorem of L'Hospital, by calculating derivatives and indefinite integrals of simple functions and sketching the functions, by formulating optimisation problems mathematically and using knowledge of derivatives to solve them, by performing operations with complex numbers and vectors, and sketching curves in polar coordinates.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment modes:</b> Summative: 1 x 2 hour examination; weight – 50 This is a guideline and can change.		
<b>Module code: WISN113</b>	<b>Semester 1</b>	<b>HEQF level: 5</b>
<b>Title: Basic Mathematical Techniques</b>		
<p><b>Module outcomes:</b> On completion of the module the student should be able to:</p> <ul style="list-style-type: none"> <li>• demonstrate introductory level knowledge of the concept of a mathematical function elucidated from examples that include exponential and logarithmic functions, a method to solve sets of linear equations, matrix algebra, linear programming problems in two variables, analysis of the rate of change of mathematical functions by using differentiation to investigate the characteristics of the function;</li> <li>• demonstrate skills to recognise the presence and applicability of mathematical concepts in a scientific situation and to construct a mathematical model of the problem situation in order to reach a solution by applying differentiation techniques, arithmetic techniques or linear algebra.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment modes:</b> Summative: 1 x 2 hour examination; weight – 50 This is a guideline and can change.		

<b>Module code: WISN121</b>	<b>Semester 2</b>	<b>HEQF level: 5</b>
<b>Title: Introductory Algebra and Analysis II</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>demonstrate fundamental knowledge of basic concepts of sequences, series and power series, and the basic theorems on the converging of series, Taylor series, the basic properties and applications of the definite integral, the fundamental theorems of differential and integral calculus, hyperbolic and inverse hyperbolic functions, applications of integration to surfaces, lengths and volumes, first order separable differential equations, systems of linear equations, Gaussian reduction, matrices and matrix operations, determinants and Cramer's rule;</li> <li>demonstrate problem solving skills by analysing familiar and unfamiliar problems, using knowledge of techniques to handle systems of linear equations, judging convergence of sequences and series, calculating Taylor series, determining integrals and derivatives and integrals of exponential and hyperbolic functions, solving differential equations and calculating surfaces, lengths and volumes.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment modes:</b> Summative: 1 x 3 hour examination; weight – 50 This is a guideline and can change.		
<b>Module code: WISN211</b>	<b>Semester 1</b>	<b>HEQF level: 6</b>
<b>Title: Analysis III</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>demonstrate a thorough knowledge and insight into all the aspects of the differential calculus of multivariate functions: partial and directional derivatives, the gradient function, optimisation problems, including Lagrange's method, the theory of multiple integrals to calculate partial derivatives, directional derivatives and gradients, and double and triple integrals;</li> <li>demonstrate problem solving skills by analysing familiar and unfamiliar problems, using knowledge of techniques to solve practical problems modelled with multivariate functions, use the geometric and physical meaning of the above-mentioned concepts to abstract the underlying mathematical structure of applied problems and interpret the significance of the mathematical solution.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Module code: WISN212</b>	<b>Semester 1</b>	<b>HEQF level: 6</b>
<b>Title: Linear Algebra I</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>demonstrate a thorough knowledge and insight into the solvability of systems of linear equations; the basic properties of Euclidean spaces and linear transformations, interdependency of general vector space concepts; demonstrate the ability to determine eigenvalues and eigenvectors;</li> <li>demonstrate problem solving skills by analysing familiar and unfamiliar problems, using knowledge of techniques to solve systems of linear equations in the context of a vector space; perform matrix operations; determine bases for subspaces; calculate eigenvalues and eigenvectors; execute these matrix calculations and interpret the results.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment modes:</b> Summative: 1 x 3 hour examination; weight – 50 This is a guideline and can change.		

<b>Module code: WISN221</b>	<b>Semester 2</b>	<b>HEQF level: 6</b>
<b>Title: Analysis IV</b>		
<p><b>Module outcomes:</b> On completion of the module the student should be able to:</p> <ul style="list-style-type: none"> <li>demonstrate a thorough knowledge and insight into line integrals of scalar valued and vector valued functions of two and three variable functions, the fundamental theorem and Green's theorem for line integrals and their applications, surface integrals of scalar valued and vector valued functions, the theorem of Stokes and the divergence theorem of Gauss and their applications, the theory of higher order linear differential equations and methods (of undetermined coefficients and the variation of parameters) to solve second order linear differential equations with constant coefficients, sequences and series of real numbers, tests for convergence (integral test, comparison test, limit comparison test) and tests for absolute convergence of series of real numbers (ratio and root tests);</li> <li>demonstrate problem solving skills by analysing familiar and unfamiliar problems, using knowledge of techniques to calculate line integrals of scalar valued and of vector valued functions and use them in solving practical problems (such as the calculation of surfaces and the calculation of work done by forces along curves), calculating surface integrals of scalar valued and vector valued functions of two and three variables and use them to solve practical problems (such as calculating flow rates through surfaces) using the Theorem of Stokes to calculate surface integrals by using line integrals along closed curves and vice versa, using the theorem of Gauss to calculate surface integrals of vector fields over closed surfaces by evaluating triple integrals, determining the solutions of homogeneous linear differential equations that have constant coefficients and solving non-homogeneous linear equations using the methods of indeterminate coefficients and the variation of parameters, using the different (relevant) tests for the convergence of series of real numbers to test for the convergence of these series.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment modes:</b> Summative: 1 x 3 hour examination; weight – 50 This is a guideline and can change.		
<b>Module code: WISN222</b>	<b>Semester 2</b>	<b>HEQF level: 6</b>
<b>Title: Linear Algebra II</b>		
<p><b>Module outcomes:</b> On completion of the module the student should be able to:</p> <ul style="list-style-type: none"> <li>demonstrate a thorough knowledge and insight into general vector spaces and bases, inner products, vector norms, linear transformations, matrix and vector norms, stepwise orthogonal transformations on a matrix, LU factorising and solutions of certain systems of differential equations;</li> <li>demonstrate problem-solving skills by analysing familiar and unfamiliar problems, using knowledge of techniques to determine inner products, vector norms and linear transformations.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment modes:</b> Summative: 1 x 3 hour examination; weight – 50 This is a guideline and can change.		

<b>Module code: WISN223</b>	<b>Semester 2</b>	<b>HEQF level: 6</b>
<b>Title: Discrete Mathematics</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>demonstrate knowledge of propositional- and predicate logic and logical argumentation, general proving techniques including direct and indirect arguments and counter examples, basic notation and the properties of set theory and Boolean algebras, calculation of probabilities by basic counting techniques, properties of mathematical functions and the pigeonhole principle, introductory graph theory;</li> <li>apply and demonstrate concepts;</li> <li>recognise the presence and applicability of mathematical concepts in a practical situation and program the concepts in the correct way.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment modes:</b> Summative: 1 x 3 hour examination; weight – 50 This is a guideline and can change.		
<b>Module code: WISN311</b>	<b>Semester 1</b>	<b>HEQF level: 7</b>
<b>Title: Real Analysis I</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>demonstrate a rounded and systematic knowledge and insight into the theory of real numbers, the topology of vector spaces with finite dimensions, compactness and connectedness of sets, continuous and uniform continuous functions, continuous images of compact and connected sets, implicit functions and the implicit function theorem in three dimensions, convergence of sequences and Cauchy sequences, convergence and continuous convergence of sequences of functions, Riemann and abstract integration, sigma algebras and measurable spaces, general measurable and Borel measurable functions, measures on measurable spaces, integral and measurable functions, the monotone convergence theorem, Fatou's lemma and Lebesgue's convergence theorem, the relation between Riemann and Lebesgue integrals, the characterisation of Riemann integrable functions in terms of continuity;</li> <li>demonstrate problem solving skills as an individual and as member of a group by analysing familiar and unfamiliar analysis problems, by testing functions for continuity, by solving problems from integration theory and by applying abstract mathematical theorems and concepts in areas such as probability theory.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment modes:</b> Summative: 1 x 3 hour examination; weight – 50		

<b>Module code: WISN321</b>	<b>Semester 2</b>	<b>HEQF level: 7</b>
<b>Title: Real Analysis II</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>• demonstrate a rounded and systematic knowledge and insight into the derivative of vector functions and of multivariate functions and applying them to determine differentials, the concept differentiability, the concept directional derivative and its application to solve familiar and unfamiliar problems in the field of real analysis, Taylor's theorem and its applications, the general implicit function theorem, improper integrals and the calculation of integrals, the theorems of Radon-Nikodym and Fubini and their use;</li> <li>• demonstrate skills to test for convergence by using improper integrals and infinite series, calculate the maxima and minima of multivariable functions, apply various theorems from measure and integration theory in areas like probability theory, functional analysis and financial mathematics.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment modes:</b> Summative: 1 x 3 hour examination; weight – 50 This is a guideline and can change.		
<b>Module code: WVNS211</b>	<b>Semester 1</b>	<b>HEQF level: 6</b>
<b>Title: Understanding the Natural World</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>• have a fundamental knowledge base of the nature and function of world views and ideologies as reflected in the historical development of science from antiquity up to the post-modern era;</li> <li>• understand the relationship between norms and science; understand the influence of science and technology on the spiritual, cultural and material world view of man, his society and his environment;</li> <li>• understand and discuss key issues in the development of science in the context of value systems as reflected in their world view.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment modes:</b> Summative: 1 x 2 hour examination; weight – 50 This is a guideline and can change.		

<b>Module code: WVNS221</b>	<b>Semester 2</b>	<b>HEQF level: 6</b>
<b>Title: Science and Society</b>		
<p><b>Module outcomes:</b>  On completion of the module the student should be able to:</p> <ul style="list-style-type: none"> <li>• demonstrate that he/she can identify and critically react to the basic issues in the contemporary discussion about science, technology and society, with specific reference to the science and technology system in South Africa;</li> <li>• identify and critically react, according to a value-based orientation in a particular world view, to the most important ethical issues in the subject areas of a programme;</li> <li>• understand the role of multi-culturality in the conduct of scientific practice and in the progress of science;</li> <li>• adopt a well-argued viewpoint on the concept of sustainable development, including the socio-economic implications thereof;</li> <li>• discuss different systems-thinking perspectives and view contemporary issues in science and technology from a systems perspective.</li> </ul> <p>In all cases the view expressed by the student must flow forth from a self-chosen but acknowledged frame of reference in the relevant area.</p>		
<b>Method of delivery:</b> Full-time		
<b>Assessment modes:</b> Summative: 1 x 2 hour examination; weight – 50		
This is a guideline and can change.		



#### 4.5 MODULE OUTCOMES: EXTENDED PROGRAMMES BACHELOR OF SCIENCE

Foundation modules are preparatory for the regular first/second/third level modules and combine some aspects of the regular module material with substantial provision for foundation material.

<b>Module code: ACFS111</b>	<b>Semester 1</b>	<b>HEQF level: 5</b>
<b>Title: Financial Accounting Special: Basic Concepts, Accounting Cycle and Accounting Systems</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>• explain the purpose and function of accounting;</li> <li>• demonstrate a clear understanding of the accounting equation;</li> <li>• create journals, ledgers subsidiary ledgers and control accounts;</li> <li>• design an accounting system that will meet the requirements of a specific entity;</li> <li>• record transactions and prepare financial statements of sole traders.</li> </ul>		
<b>Method of delivery:</b> Full-time and part-time		
<b>Assessment modes:</b> Assessment criteria will be provided at the beginning of the semester by means of a working schedule.		
<b>Module code: ACFS121</b>	<b>Semester 2</b>	<b>HEQF level: 5</b>
<b>Title: Financial Accounting Special: Bank Reconciliation, Elementary Financial Reporting and Analysis and Interpretation of Elementary Financial Statements</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>• draw up a cash receipts- and payment journal and to prepare a bank reconciliation statement;</li> <li>• prepare a statement of comprehensive income (income statement), statement of financial position (balance sheet) and a statement of changes in equity for sole traders on a generally acceptable format;</li> <li>• identify and explain financial ratios; explain their purpose and use in the analyses of the liquidity, profitability and solvency of a sole trader.</li> </ul>		
<b>Method of delivery:</b> Full-time and part-time		
<b>Assessment modes:</b> Assessment criteria will be provided at the beginning of the semester by means of a working schedule.		

ACFS111,121 (Financial Accounting Special) are preparatory for the regular first level modules in Accounting. It is intended for students who have not taken accounting at grade 12 level.

<b>Module code: CTSS111</b>	<b>Semester 1</b>	<b>HEQF level: 5</b>
<b>Title: Critical Thinking Skills</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>• demonstrate basic knowledge of the fundamentals of argumentation;</li> <li>• demonstrate the ability to analyse texts and arguments critically;</li> <li>• develop well-structured arguments in a written format.</li> </ul>		

CTSS111 (Critical Thinking Skills) is preparatory for critical thinking skills required across all regular modules.

<b>Module code: ITSP111</b>	<b>Semester 1</b>	<b>HEQF level: 5</b>
<b>Title: Introduction to Problem Solving</b>		
<p><b>Module outcomes:</b>  On completion of the module the student should be able to:</p> <ul style="list-style-type: none"> <li>• explain the difference between solving problems and writing computer programming language code;</li> <li>• understand what problems are and that they have several possible solutions;</li> <li>• apply a strategy to help understand, solve, and evaluate the solution to a problem;</li> <li>• write solutions to problems in a semi-formal structured English (pseudo-code);</li> <li>• recognize the role of sequence, choice (selection), and repetition (iteration) in solving problems;</li> <li>• understand the importance of the role of abstraction in problem solving;</li> <li>• identify the variables (data items) needed in a problem solution (algorithm);</li> <li>• estimate likely ranges of variables;</li> <li>• apply the problem solving strategy to real-world problems involving variables and nested action blocks;</li> <li>• understand the ways in which different kinds (types) of data affect the way solutions to problems are designed;</li> <li>• recognize appropriate operations that can be carried out on different data types;</li> <li>• identify different ways of carrying out selection and iteration and understand how different specialized control constructs can be used appropriately;</li> <li>• understand the difference between simple and compound selections, and how complex conditions can be expressed to control the selections;</li> <li>• understand the difference between determinate and indeterminate iterations and how complex conditions can be expressed to control the iterations;</li> <li>• determinate: count-controlled iteration;</li> <li>• indeterminate: zero-or-more and at-least-once iterations;</li> <li>• analyze real-world problems to identify the appropriate selection and iteration constructs to use.</li> </ul>		
<b>Method of delivery:</b> Contact sessions		
<b>Assessment modes:</b> Formative and Summative		

ITSP111 (Introduction to Problem Solving) is intended for students who have not taken programming at a grade 12 level.

<b>Module code: ITSP121</b>	<b>Semester 2</b>	<b>HEQF level: 5</b>
<b>Title: Introductory Programming Principles</b>		
<p><b>Module outcomes:</b>  On completion of the module the student should be able to:</p> <ul style="list-style-type: none"> <li>• know various components of a computer;</li> <li>• understand how various components of a computer work;</li> <li>• understand how to use various components of a computer effectively;</li> <li>• demonstrate knowledge of how a computer works;</li> <li>• know and explain basic computer concepts;</li> <li>• write basic algorithms.</li> </ul>		
<b>Method of delivery:</b> Contact sessions		
<b>Assessment modes:</b> Formative and Summative		

ITSP121 (Introductory Programming Principles) is preparatory for the regular first level module in Programming.

<b>Module code: ITSP113</b>	<b>Semester 1</b>	<b>HEQF level: 5</b>
<b>Title: Introduction to Graphical Interface Programming</b>		
<p><b>Module outcomes:</b> On completion of the module the student should be able to:</p> <p><b>Knowledge</b></p> <ul style="list-style-type: none"> <li>demonstrate that he/she is familiar with basic theoretical programming concepts and have gained basic introductory knowledge and skills of a graphical interface programming environment to develop and test basic programs in a GUI computer programming language;</li> <li>understand introductory aspects of graphical interface design and event-driven programming;</li> </ul> <p><b>Skills</b></p> <ul style="list-style-type: none"> <li>prove that he/she can apply the theory of basic graphical interface programming in a practical way by writing algorithms and subsequently solve basic problems using a GUI programming language.</li> </ul>		
<b>Method of delivery:</b> Lecture (contact sessions) / practical student participation in lab.		
<b>Assessment modes:</b> Formative: Class tests theory and practical. Lecture /student observation and interaction. Summative: Formal examination.		

ITSP113 (Introduction to Graphical Interface Programming) is preparatory for the regular first level module in Graphical Interface Programming.

<b>Module code: ITSP114</b>	<b>Semester 1</b>	<b>HEQF level: 5</b>
<b>Title: Introduction to Object Oriented Programming</b>		
<p><b>Module outcomes:</b> On completion of the module the student should be able to:</p> <p><b>Knowledge</b></p> <ul style="list-style-type: none"> <li>demonstrate basic knowledge on and insight in the basic structures, data types, methods, classes and objects of an object oriented programming language;</li> <li>demonstrate basic knowledge and insight on problem solving, including: debugging, testing and executing of applications;</li> </ul> <p><b>Skills</b></p> <p>show that he/she can apply the knowledge and insight that have been obtained in problem solving by means of a computer. Specifically he/she should be able to:</p> <ul style="list-style-type: none"> <li>develop a solution plan (algorithm) to solve a problem that has been defined, "translate" (encode) the algorithm in Java; debug it, test it and execute it by means of the computer;</li> <li>apply certain steps of problem solving on defined problems;</li> <li>use general properties of the programming language Java to develop applications;</li> <li>create and use classes in problem solving;</li> <li>handle different data types in Java;</li> <li>do arithmetic calculations;</li> <li>use classes and methods that already have been defined in Java;</li> <li>use Java's decision making structures (choice), namely <i>if</i> and <i>switch</i>, in problem solving;</li> <li>use the repeating structures of Java (loops), namely <i>while</i>, <i>do..while</i> and <i>for</i> in problem solving;</li> <li>use a good programming style (program readability);</li> <li>write structured classes and programs that gives neat output;</li> <li>write programs that are user friendly.</li> </ul>		
<b>Method of delivery:</b> Lecture (contact sessions) / practical student participation in lab.		
<b>Assessment modes:</b> : Formative: Class tests theory and practical. Lecture /student observation and interaction. Summative: Formal examination.		

ITSP114 (Introduction to Object Oriented Programming) is preparatory for the regular first level module in Programming.

<b>Module code: STTF211</b>	<b>Semester 1</b>	<b>HEQF level: 6</b>
<b>Title: Introduction to Probability</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to: <ul style="list-style-type: none"> <li>• apply basic probability concepts;</li> <li>• solve problems with random variables of the discrete type and continuous type;</li> <li>• solve problems with two random variables.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment modes:</b> Summative: 1 x 3 hour examination; weight – 50 project; weight – 50  This is a guideline and can change.		
<b>Module code: STTF221</b>	<b>Semester 2</b>	<b>HEQF level: 6</b>
<b>Title: Introduction to Sampling Theory and Statistical Inference</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to: <ul style="list-style-type: none"> <li>• apply techniques to transform two random variables;</li> <li>• apply estimation techniques;</li> <li>• understand and evaluate some of the properties of point estimators;</li> <li>• apply the Method of Moments to find estimators.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment modes:</b> Summative: 1 x 3 hour examination; weight – 50 project; weight – 50  This is a guideline and can change.		

STTF211,221 (Introduction to Probability and Sampling Theory and Statistical Inference) are preparatory for the regular second level modules in Statistics in order to achieve a level of statistical skills.

<b>Module code: STTF121</b>	<b>Semester 2</b>	<b>HEQF level: 5</b>
<b>Title: Foundation Statistics II</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to: <ul style="list-style-type: none"> <li>• test the overall regression model and the individual regression variables for statistical significance using Excel;</li> <li>• analysing time series using Excel</li> <li>• use excel to derive probabilities, confidence intervals and to test hypotheses;</li> <li>• carry out a statistical project, from design to analysis.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment modes:</b> Summative: 1 x 2 hour examination; weight – 50  This is a guideline and can change.		
<b>Module code: STTF311</b>	<b>Semester 1</b>	<b>HEQF level: 7</b>
<b>Title: Statistical Inference</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		

<ul style="list-style-type: none"> <li>• find sufficient and complete estimators;</li> <li>• understand and apply the Rao-Blackwell theorem;</li> <li>• conduct hypothesis testing;</li> <li>• apply the Neymann-Pearson lemma;</li> <li>• construct likelihood ratio tests.</li> </ul>
<b>Method of delivery:</b> Full-time
<b>Assessment modes:</b> Summative: 1 x 3 hour examination; weight – 50 project; weight – 50
This is a guideline and can change.

<b>Module code: STTF321</b>	<b>Semester 2</b>	<b>HEQF level: 7</b>
<b>Title: Foundation Data Mining</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>• understand simple and multiple linear regression models, understand the reasoning behind the assumptions in the regression model, diagnose any departures from the assumptions and then apply remedial measures to correct the departures from the assumptions and incorporate qualitative variables into a regression model by using dummy variables;</li> <li>• analyse and forecast time series data;</li> <li>• carry out a successful statistical project, from design to analysis;</li> <li>• demonstrate report writing skills (compile/compose appropriate documentation for the project);</li> <li>• demonstrate the necessary computer skills required to deal with statistical analyses using Excel and SPSS.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Assessment modes:</b> Summative: 1 x 3 hour examination; weight – 50 project; weight – 50		
This is a guideline and can change.		

STTF311,321 (Statistical Inference and Foundation Data Mining) are preparatory for the regular third level modules in Statistics in order to achieve a level of data mining skills.

<b>Module code: WISS111</b>	<b>Semester 1</b>	<b>HEQF level: 5</b>
<b>Title: Introduction to Mathematics I</b>		
<b>Module outcomes:</b> On completion of the module the student should be able to:		
<ul style="list-style-type: none"> <li>• demonstrate knowledge on an introductory level of functions, exponential laws, logarithmic laws, limit laws and other basic theorems;</li> <li>• demonstrate knowledge on different types of graphs, solving systems of linear equations, linear programming problems in two variables, limits, analyzing the rate of change of functions, the Remainder theorem and Factor theorem to factorize polynomials and solve equations;</li> <li>• apply and demonstrate mathematical concepts and properties by simplifying expressions and solving linear and quadratic equations and linear inequalities.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Module code: WISS121</b>	<b>Semester 2</b>	<b>HEQF level: 5</b>
<b>Title: Introduction to Mathematics II</b>		
<b>Module outcomes:</b>		

<p>On completion of the module the student should be able to:</p> <ul style="list-style-type: none"> <li>• demonstrate knowledge on an introductory level of absolute values and the nature of the roots of quadratic equations;</li> <li>• solve inequalities (in general) and equations with absolute values;</li> <li>• demonstrate knowledge on the inverse functions and graphs of polynomials;</li> <li>• demonstrate knowledge on trigonometric functions and identities;</li> <li>• find solutions to equations with trigonometric functions on a given interval as well as general solutions;</li> <li>• demonstrate knowledge on the transformation of functions.</li> </ul>
<p><b>Method of delivery:</b> Full-time</p>

WISS111,121 (Introduction to Mathematics I/II) are preparatory for the regular first level modules in Mathematics in order to achieve a level of mathematical skills.

<b>Module code: WISS113</b>	<b>Semester 1</b>	<b>HEQF level: 5</b>
<b>Title: Introduction to Mathematical Techniques I</b>		
<p><b>Module outcomes:</b></p> <p>On completion of the module the student should be able to:</p> <ul style="list-style-type: none"> <li>• demonstrate knowledge on an introductory level of number systems and exponential laws;</li> <li>• write simple word problems in mathematical form;</li> <li>• apply and demonstrate mathematical concepts and properties by simplifying expressions and solving linear and quadratic equations and linear and quadratic inequalities.</li> </ul>		
<b>Method of delivery:</b> Full-time		
<b>Module code: WISS123</b>	<b>Semester 2</b>	<b>HEQF level: 5</b>
<b>Title: Introduction to Mathematical Techniques II</b>		
<p><b>Module outcomes:</b></p> <p>On completion of the module the student should be able to:</p> <ul style="list-style-type: none"> <li>• demonstrate knowledge on an introductory level of functions, exponential laws, logarithmic laws and limit laws;</li> <li>• demonstrate knowledge on different types of graphs, solving systems of linear equations, linear programming problems in two variables, limits, analyzing the rate of change of functions;</li> <li>• demonstrate knowledge on financial mathematics;</li> <li>• apply and demonstrate mathematical concepts and properties by simplifying expressions and solving linear and quadratic equations, linear inequalities, exponential equations and logarithmic equations.</li> </ul>		
<b>Method of delivery:</b> Full-time		

WISS113,123 (Introduction to Mathematical Techniques I/II) are preparatory for the regular first level modules in Mathematics in order to achieve a level of mathematical skills.