

ANNEXURE to CALENDAR 2013

FACULTY OF ECONOMIC SCIENCES AND
INFORMATION TECHNOLOGY
UNDERGRADUATE
Vaal Triangle Campus

V.1.7

QUALIFICATIONS, PROGRAMMES AND CURRICULA

SCHOOL OF ACCOUNTING SCIENCES				
Method of Delivery	Programme	HEQF	APS	Admission Requirements
EXTENDED PROGRAMME (B Com - 4 years)				
Full-time	Programme: Chartered Accountancy (CA) (500 204 - E303V) <i>*E302V phase out for pipeline students and E303V phase in from 2013 for 1st years</i>	7	26	Mathematics level 3
Full-time	Programme: Financial Accountancy (SAIPA) (500 215 - E301V)	7	24	Mathematics level 3 Mathematical Literacy level 7 (80%)
SCHOOL OF ECONOMIC SCIENCES				
Method of Delivery	Programme	HEQF	APS	Admission Requirements
EXTENDED PROGRAMME (B Com - 4 years)				
Full-time	Programme: Economics and Risk Management (500 214 - E302V) <i>*E301V phase out for pipeline students and E302V phase in from 2013 for 1st years</i>	7	24	Mathematical Literacy 70% / Selection Test
Full-time	Programme: International Trade (500 217 - E301V)	7	24	Mathematical Literacy 70% / Selection Test
Full-time	Programme: Marketing Management (500 206 - E301V)	7	24	Mathematical Literacy 70% / Selection Test
SCHOOL OF INFORMATION TECHNOLOGY				
Method of Delivery	Programme	HEQF	APS	Admission Requirements
EXTENDED PROGRAMMES (BSc - 4 years)				
Full-time	Programme: Business Analytics (200 198 - N302V) <i>*N301V–Data Mining, phase out for pipeline students and N302V–Business Analytics, phase in from 2013 for 1st years</i>	7	28	Mathematics level 4
Full-time	Programme: Information Technology (264 102 - N302V) <i>*N301V phase out for pipeline students and N302V phase in from 2013 for 1st years</i>	7	24	Mathematics level 3
Full-time	Programme: Financial Mathematics (200 208 - N301V)	7	28	Mathematics level 4
Full-time	Programme: Quantitative Risk Management (200 207 - N301V)	7	28	Mathematics level 4

V.2 RULES FOR DEGREES

V.2.1 RULES FOR THE DEGREE BACHELOR OF COMMERCE

V.2.1.1 Duration of study

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.

V.2.1.2 Admission requirements

- Chartered Accountancy (CA) Extended Programme (500 204: E303V) requires Mathematics on level 3 (40-49%) and an APS of 26.
- Financial Accountancy (SAIPA) Extended Programme (500 514: E301V) requires Mathematics on level 3 (40-49%) OR Mathematical Literacy on level 7 (80% or more) and an APS of 24
- A student on the Financial Accountancy (SAIPA) Extended Programme (500 514: E301V) who obtained 65% or more for WISS 112 and WISS 122 as well as 65% or more for ACFS 111 and ACFS 121 can change to the Chartered Accountancy (CA) Extended Programme (500 204: E303V) from their second year onwards.

V.2.1.5 List of modules for the Extended B Com programmes

Extended Programme Modules			
Module Code	Descriptive Name	Prerequisites	Credits
ACFS111	Accounting Special		16
ACFS112	Accounting Special (CA)		16
ACFS121	Accounting Special	ACFS111 (40%)	16
ACFS122	Accounting Special (CA)	ACFS112 (40%)	16
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

V.2.2.5 List of modules for the B Sc Extended programmes

Extended Programme Modules			
Module Code	Descriptive Name	Prerequisites	Credits
ACFS111	Accounting Special		16
ACFS121	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
STTF115	Descriptive Statistics		12
STTF125	Introductory Statistical Inference	STTF115	12
STTF215	Practical Statistics	STTF125	16
STTF225	Introduction to Probability	STTF215	16
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

V.3 CURRICULA OF PROGRAMMES IN THE DIFFERENT SCHOOLS

V.3.1 SCHOOL OF ACCOUNTING SCIENCES

V.3.1.7 Curriculum: Chartered Accountancy (CA) Extended Programme (500 204 - E303V)

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
ACFS112	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	12	TAXC211 (H)	12		
Total first semester	60	Total first semester	64	Total first semester	64	Total first semester	28
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/E 122	12	ACCC121 (H)	16	AUDT221 (H)	12	FINM321 (H)	16
ACFS122	16	STTF121	12	MACC221 (H)	16	STRA321	12
WISS122	12	MLAW121	12	FINM221 (H)	16		
BMAN121	12	BRSF121	8	TAXC221 (H)	12		
ECON121	12						
STTN122	12						
Total second semester	76	Total second semester	52	Total second semester	56	Total second semester	28
YEAR MODULES:							
				ACCC271 (H)	32	ACCC371 (H)	32
						TAXC371 (H)	32
						AUDT371 (H)	24
				Total Year module	32	Total Year module	88
Total Year level 1	136	Total Year level 2	112	Total Year level 3	152	Total Year level 4	144
Total credits for the curriculum							544

V.3.1.8 Curriculum: Financial Accountancy (SAIPA) Extended Programme
(500 215 - 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 (H)	16	ACCF211 (H)	16	MACC311 (H)	16
WISS112	12	PSDT111	12	IAUD211 (H)	12	ACMP311	12
CTSS111	8	MLAW111	12	MACC211 (H)	16	ACCF311 (H)	16
BMAN111	12	STTF111	12	MLAW211	12	TAXF311 (H)	16
ECON111	12	WISN112	12	TAXF211 (H)	12	WVES311	12
Total first semester	60	Total first semester	64	Total first semester	68	Total first semester	72
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	ACCF121 (H)	16	ACCF221 (H)	16	FINM321 (H)	16
ACFS121	16	STTF121	12	IAUD221 (H)	12	TAXF321 (H)	16
WISS122	12	MLAW121	12	TAXF221 (H)	12	ACCF321 (H)	16
BMAN121	12	BRSF121	8	MACC221 (H)	16	IAUD321 (H)	16
ECON121	12			FINM221 (H)	16		
STTN122	12			WVES221	12		
Total second semester	76	Total second semester	48	Total second semester	84	Total second semester	64
Total Year level 1	136	Total Year level 2	112	Total Year level 3	152	Total Year level 4	136
Total credits for the curriculum							536

V.3.2 SCHOOL OF ECONOMIC SCIENCES

V.3.2.12 Curriculum: Economics and Risk Management Extended Programme (500 214 - 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	ACCF111	16	EKIP211	16	EKIP311	16
WISS112	12	PSDT111	12	ACCF211	16	ECON311	16
CTSS111	8	BMAN211	16	EKRP211	16	EKRP311	16
BMAN111	12	STTF111	12	ECON211	16	WVES311	12
ECON111	12	WISN112	12			BMAN311	16
Total first semester	60	Total first semester	68	Total first semester	64	Total first semester	76
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/E 121	12	ACCF121	16	EKIP221	16	ECON321	16
ACFS121	16	STTF121	12	EKRP221	16	ECON322	16
WISS122	12	ECON221	16	ACCF221	16	EKRP321	16
BMAN121	12	BRSF121	8	BMAR221	16	EKIP321	16
ECON121	12	WVES221	12			BMAN321	16
STTN122	12						
Total second semester	76	Total second semester	64	Total second semester	64	Total second semester	80
Total Year level 1	136	Total Year level 2	132	Total Year level 3	128	Total Year level 4	156
Total credits for the curriculum							552

V.3.2.13

Curriculum: International Trade Extended Programme

(500 217 - 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
ACFS 111	16	BMAN211	16	EKIP311	16	BMAN311	16
WISS112	12	PSDT111	12	BMAR211	16	ECON311	16
CTSS111	8	ITRW112	12	EKRP211	16	WVES311	12
BMAN111	12	STTF111	12	ECON211	16		
ECON111	12	EKIP211	16				
AGLA/E 111	8						
Total first semester	68	Total first semester	68	Total first semester	64	Total first semester	44
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	BMAN221	16	ECON221	16	ECON321	16
WISS122	12	STTF121	12	EKRP221	16	ECON322/ BMAN321	16
BMAN121	12	WISN123	12	BMAR221	16	EKIP321	16
ECON121	12	EKIP221	16	WVES221	12		
AGLA121	12	BRSF121	8				
STTN122	12						
Total second semester	76	Total second semester	64	Total second semester	60	Total second semester	48
Total Year level 1	144	Total Year level 2	132	Total Year level 3	124	Total Year level 4	92
Total credits for the curriculum							492

V.3.2.14

Curriculum: Marketing Management Extended Programme

(500 206 - 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	BMAN211	16	EKIP311	16	BMAN311	16
WISS112	12	STTF111	12	BMAR211	16	BMAR311	16
CTSS111	8	ITRW112	12	BMAN212	16	BMAR312	16
BMAN111	12	EKIP211	16	ECON211	16	WVES311	12
ECON111	12	PSDT111	12				
AGLA/E 111	8						
Total first semester	68	Total first semester	68	Total first semester	64	Total first semester	60
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/E 121	12	BMAN221	16	ECON221	16	BMAN321	16
ACFS121	16	STTF121	12	EKIP321	16	BMAR321	16
WISS122	12	WISN123	12	BMAR221	16	BMAR322	16
BMAN121	12	EKIP221	16	WVES221	12		
ECON121	12	BRSF121	8				
STTN122	12						
Total second semester	76	Total second semester	64	Total second semester	60	Total second semester	48
Total Year level 1	144	Total Year level 2	132	Total Year level 3	124	Total Year level 4	108
Total credits for the curriculum							508

V.3.4 SCHOOL OF INFORMATION TECHNOLOGY

V.3.4.11 Curriculum: Business Analytics Extended Programme (200 198 - N302V)

This is the curriculum of the extended programme Business Analytics.

V.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	BWIA111	12	ITRW214	16	ITRW311	16
ECON111	12	ITRW212	16	STTK211	16	ITRW317	16
ITRW112	12	ITRW213	16	WISN211	8	STTN311	32
STTF115	12	STTF215	16	WISN212	8		
WISS111	12	WISN111	12	WVES311	12		
Total first semester	64	Total first semester	72	Total first semester	60	Total first semester	64
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	BWIA121	12	ITRW325	16	ITRW321	16
AGLA/E121	12	ECON121	12	STTN221	16	STTK321	24
ITRW123	12	ITRW222	16	TGWN222	8	STTK322	8
ITRW124	12	STTF225	16	WISN222	8		
STTF125	12	WISN121	12	WVES221	12		
WISS121	12						
Total second semester	76	Total second semester	68	Total second semester	60	Total second semester	48
Total Year level 1	140	Total Year level 2	140	Total Year level 3	120	Total Year level 4	112
Total credits for the curriculum							512

**V.3.4.12 Curriculum: Financial Mathematics Extended Programme
(200 208 - N301V)**

This is the curriculum of the extended programme Financial Mathematics.

V.3.4.12.1 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	BWIA111	12	STTK211	16	BWIA311	24
ECON111	12	ECON211	16	WISN211	8	STTN311	32
ITRW112	12	EKRP211	16	WISN212	8	WISN313	16
STTF115	12	STTF215	16	WVES311	12		
WISS111	12	WISN111	12				
Total first semester	64	Total first semester	72	Total first semester	44	Total first semester	72
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	BWIA121	12	STTN221	16	BWIN321	16
AGLA/E121	12	EKRP221	16	TGWN222	8	STTK321	24
ECON121	12	STTF225	16	WISN221	8	STTK322	8
ITRW123	12	WISN121	12	WISN222	8	WISN323	16
STTF125	12	WVES221	12				
WISS121	12						
Total second semester	76	Total second semester	68	Total second semester	40	Total second semester	64
				Year module			
				BWIA271	32		
Total Year level 1	140	Total Year level 2	140	Total Year level 3	116	Total Year level 4	136
Total credits for the curriculum							532

**V.3.4.13 Curriculum: Information Technology Extended Programme
(264 102 - N302V)**

This is the curriculum of the extended programme Information Technology.

V.3.4.13.1 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
BMAN111	12	ACFS111	16	ITRW211	8	ITRW311	16
ITSP111	12	ITSP113	12	ITRW212	16	ITRW313	8
STTN111	12	ITSP114	12	ITRW213	16	ITRW315	8
WISS113	12	WISN113	12	ITRW214	16	ITRW316	16
				WVNS211	12	ITRW317	16
Total first semester	48	Total first semester	52	Total first semester	68	Total first semester	64
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	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
Total second semester	48	Total second semester	56	Total second semester	52	Total second semester	48
Total Year level 1	96	Total Year level 2	108	Total Year level 3	120	Total Year level 4	112
Total credits for the curriculum							436

V.3.4.14 Curriculum: Quantitative Risk Management Extended Programme (200 207 - N301V)

This is the curriculum of the extended programme Quantitative Risk Management.

V.3.4.14.1 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	ACCF111	16	ECON211	16	BWIA311	24
ECON111	12	BWIA111	12	STTK211	16	EKRP311	16
ITRW112	12	EKRP211	16	WISN211	8	STTN311	32
STTF115	12	STTF215	16	WISN212	8		
WISS111	12	WISN111	12	WVES311	12		
Total first semester	64	Total first semester	72	Total first semester	60	Total first semester	72
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	ACCF121	16	FINM221	16	BWIN321	16
AGLA/E121	12	BWIA121	12	STTN221	16	EKRP321	16
ECON121	12	EKRP221	16	TGWN222	8	STTK321	24
ITRW123	12	STTF225	16	WISN222	8	STTK322	8
STTF125	12	WISN121	12				
WISS121	12	WVES221	12				
Total second semester	76	Total second semester	84	Total second semester	48	Total second semester	64
				Year module			
				BWIA271	32		
Total Year level 1	140	Total Year level 2	156	Total Year level 3	140	Total Year level 4	136
Total credits for the curriculum							572

V.4 MODULE OUTCOMES

V.4.2 MODULE OUTCOMES: EXTENDED PROGRAMMES BACHELOR OF COMMERCE (not appearing in the 2013 Calendar)

Module code: ACFS111	Semester 1	NQF level: 5
Title: Accounting Special: Basic Concepts, Accounting Cycle and Accounting Systems		
Module outcomes:		
On completion of the module the student should be able to:		
<ul style="list-style-type: none"> • explain the purpose and function of accounting; • demonstrate a clear understanding of the accounting equation; • create journals, ledgers subsidiary ledgers and control accounts; • design an accounting system that will meet the requirements of a specific entity; • record transactions and prepare financial statements of sole traders. 		
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.		
Module code: ACFS121	Semester 2	NQF level: 5
Title: Accounting Special: Bank Reconciliation, Elementary Financial Reporting and Analysis and Interpretation of Elementary Financial Statements		
Module outcomes:		
On completion of the module the student should be able to:		
<ul style="list-style-type: none"> • draw up a cash receipts- and payment journal and to prepare a bank reconciliation statement; • prepare a financial statement for sole traders and partnerships on a generally acceptable format; • identify and explain financial ratios; explain their purpose and use in the analyses of the liquidity, profitability and solvency of a sole trader. 		
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.		
ACFS111,121 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.		
Module code: ACFS112	Semester 1	NQF level: 5
Title: Accounting Special (CA): Basic Concepts, Accounting Cycle and Accounting Systems		
Module outcomes:		
On completion of the module the student should be able to:		
<ul style="list-style-type: none"> • explain the purpose and function of accounting; • demonstrate a clear understanding of the accounting equation; • create journals, ledgers subsidiary ledgers and control accounts; • design an accounting system that will meet the requirements of a specific entity; • record transactions and prepare financial statements of sole traders. 		
Method of delivery: Full-time		
Assessment modes: Assessment criteria will be provided at the beginning of the semester by means of a working schedule.		

Module code: ACFS122	Semester 2	NQF level: 5
Title: Accounting Special (CA): Bank Reconciliation, Elementary Financial Reporting and Analysis and Interpretation of Elementary Financial Statements		
Module outcomes:		
On completion of the module the student should be able to:		
<ul style="list-style-type: none"> • draw up a cash receipts- and payment journal and to prepare a bank reconciliation statement; • 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; • identify and explain financial ratios; explain their purpose and use in the analyses of the liquidity, profitability and solvency of a sole trader. 		
Method of delivery:	Full-time	
Assessment modes: Assessment criteria will be provided at the beginning of the semester by means of a working schedule.		

ACFS112,122 Accounting Special (CA) are preparatory for the regular first level modules in Accounting for Chartered Accountancy students. It is intended for students who have not taken accounting at grade 12 level.

V.4.5

MODULE OUTCOMES: EXTENDED PROGRAMMES BACHELOR OF SCIENCE (not appearing in the 2013 Calendar)

Module code: STTF115	Semester 1	NQF level: 5
Title: Descriptive Statistics		
Module outcomes:		
On completion of the module the student should be able to:		
<ul style="list-style-type: none"> • 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; • 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. 		
Method of delivery: Full-time		
Assessment modes: Summative: 1 × 2 hour examination; weight – 50 This is a guideline and can change		
Module code: STTF125	Semester 2	NQF level: 5
Title: Introductory Statistical Inference		
Module outcomes:		
On completion of the module the student should be able to:		
<ul style="list-style-type: none"> • 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		
Assessment modes: Summative: 1 × 2 hour examination; weight – 50 This is a guideline and can change		

Module code: STTF215	Semester 1	NQF level: 6
Title: Practical Statistics		
Module outcomes:		
On completion of the module the student should be able to:		
<ul style="list-style-type: none"> • understand the important requirements of questionnaire design; • identify and apply the steps in data preparation prior to data analysis; • interpret the printouts; i.e. graphs, tables, descriptive statistical measurements and probabilities; • use a statistical package to analyse data; • understand the simple and multiple linear regression models as well as 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; • analysing and forecasting time series data; • carry out a successful statistical project, from design to analysis; 		
Method of delivery: Full-time		
Assessment modes: Summative: 1 x 3 hour examination; weight – 50 This is a guideline and can change		
Module code: STTF225	Semester 2	NQF level: 6
Title: Introduction to Probability		
Module outcomes:		
On completion of the module the student should be able to:		
<ul style="list-style-type: none"> • demonstrate knowledge of concepts such as outcome space, events, probability measures, counting processes, stochastic outcomes of events and the independence of events; • demonstrate knowledge of important probability theorems, such as the law of total probability and the theorem of Bayes; • 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, hyper geometric 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.); • demonstrate knowledge of probability structures of two or more stochastic variables defined in the same outcome space and functions of joint distributions. 		
Method of delivery: Full-time		
Assessment modes: Summative: 1 x 3 hour examination; weight – 50 This is a guideline and can change		