MASENO UNIVERSITY FOUNTAIN OF EXCELLENCE ECAMPUS



Bachelor of Science in Mathematics and Business Studies, With IT eLearning Programme

SCHOOL OF MATHEMATICS AND APPLIED STATISTICS





1. Introduction

Bachelor of Science programme in Mathematics and Business Studies offers a flexible degree course with IT which provides a foundation in Mathematics and Business Studies.

The first years ensure that students will have a solid foundation. The flexibility offered in the later years allows the students to adapt their degree according to their own interests, ambitions and ability.

This degree program is designed to engage with and complement the existing programs from the school of Mathematics, Statistics and Actuarial Science, and the School of Business Studies and Economics.

2. Objectives:

The main objectives of this programme are to:

i) Equip the student with a solid mathematical foundation and knowledge about business.

ii) Give a flexible program that informs the student about different mathematical disciplines.

iii) Prepare students for Postgraduate studies and research in applied statistics or business studies.

iv) Prepare students for a career in business.

v) Prepare students for employment in scientific, banking or business areas requiring mathematical or statistical background.

3. Expected Learning Outcomes:

On successful completion of this programme, graduates should be able to demonstrate knowledge and understanding of

i) the core disciplines of Calculus and Linear Algebra;

ii) the processes and pitfalls of mathematical approximation;

iii) the formulation of problems in mathematical form;

iv) a range of analytical, numerical, and qualitative techniques:

v) the applicability of computer software to the solution of mathematical problems.

vi) foundational disciplines of business and management; vii) the development and operation of markets for resources, goods and services including customer

expectations, market orientation and the marketing mix;

viii) the sources, uses and management of finance, the use of accounting and other information systems for business applications;

ix) the development, management and exploitation of information systems and their impact upon organisations; x) the development of appropriate strategies at the corporate level within a changing national and international environment:

Admission Requirements.

A student wishing to study Mathematics and Economics must satisfy the minimum University requirements. In addition, the student must have passed Mathematics in the KCSE with a minimum grade of B-.

5. Duration of the Programme

The duration of the programme shall normally extend over a period of four academic years.

6. Programme Structure

(a) In the first two years, students will take 6 core units i) In the first year, students will take 14 core units in the department. In the second year they will take 6 core units and in the third year 4.

ii) The students will take at least the equivalent of 3 IT units for the first year of study and 4 IT units for each subsequent year of study. These may be MIT units offered by the School.

iii) In all years the department will offer elective courses. Students will choose elective courses in line with their desired area of specialisation.

7. Mode of Delivery

i) Face to face sessions involving students and lecturers with 42 contact hours

ii) eLearning

Examinations

(a) The University and Faculty of Science common examination regulations shall apply.

(b) Examinations shall be held at the end of the semester in which the courses are taught.

9. Key

C - CORE **R - REQUIRED**



10. Modules Distribution

First Year

FIRST SEMESTER



MMA	100 Basic Mathematics		
MMA	109	Foundation of Pure Mathematics 1 C	
MMA	111	Introduction to Probability and	
		Distribution Theory	1 C
ABA	101	Introduction to Business Studies	1 C
ABA	ABA 102 Introduction to Management		
ABA	104	Elements of Marketing	1 C
CCS	105	Fundamentals of Computing	1 C
CIT	105	Introduction to the Internet	
		and Internet Technologies	1 C
SMI	101	Multimedia Introduction to	
		Statistics	1 E
MMA	101	Analytical Geometry	1 E
MAS	101	Descriptive Statistics	1 E
ABA	103	Introduction to Accounting I	1 E
AEN	105	Communication Skills	
SECC	ND SEM	IESTER	
MMA	102	Calculus I	1 C
MMA	103	Linear Algebra I	1 C
MMA	110	Foundation of Applied	
		Mathematics	1 C
ABA	105	Business Environment	1 C
ABA	106	Business Law I	1 C
ABA	108	Business Communication	1 C
CIT	112	Introduction to Computer	
		Applications (word processing	
		& spreadsheets)	1C
CCS	109	Object-Oriented	
		Programming I	1C
SMI	SMI 103 Handling Data		1 E
SMI	104	Descriptive Statistical; Analysis	
		and Presentation	1 E
MAS	104	Programming Methodology	1 E
MAS	106	Introduction to Biostatistics	1 E

ABA 107 Management Mathematics I 1 E

Second Year

FIRST SEMESTER

MMA	200	Calculus II
MMA	202	Vector Analysis
MMA	205	Numerical Analysis I
ABA	201	Behavioral Science
ABA	202	Introduction to Finance

ABA	204	Fundamentals of Human	
		Resource Management	1C
CIT	202	Introduction to databases	1C
CIT	204	Web systems and Technologies	1C
SMI	201	Statistical Computing I	1 E
SMI	203	Collecting and organising data	1 E
MMA	203	Classical Mechanics	1 E
MAS	201	Sample Surveys	1 E
MAS	203	Economic Statistics	1 E
MAS	207	Probability and Distribution	
		Theory II	1 E
ABA	205	Management Mathematics II	1 E

SECOND SEMESTER

MMA	201	l inear Algebra II	1C
MA	206	Algebraic Structure	1C
MMA	208	Real Analysis I	1C
ABA	207	Organization Theory	1C
ABA	208	Business Law II	1C
ABA	209	Cost Accounting	1C
CCS 20	08	Systems Analysis and design	1C
CCS 2	15	Visual Basic Programming	1C
SMI	202	Data Management	1 E
SMI	204	Scientific Report Reading,	
		Writing and Presentation	1 E
MMA	204	Dynamics	1 E
MMA	207	Calculus III	1 E
MMA	209	Numerical Analysis II	1 E
MAS	202	Principles of Statistical Inference	91 E
MAS	204	Demography and Social	
		Statistic	1 E
SAC	204	Theory of Interest	1 E
SAC	208	Risk Theory	1 E
SAC	210	Investment and Asset	
		Management I	1 E
ABA	206	Business Statistics	1 E

Third Year

FIRST SEMESTER

MMA	301	Ordinary Differential	
		Equations I	1 C
ABA	301	Principles of Taxation	1 C
SMI	301	Computer based survey	
		techniques	1 E
SMI	303	Computers applied to	
		Mathematics	1 E
SMI	305	Introduction to programming	1 E
CIT	303	Information management	1C
CIT	305	System administration and	



1 C

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	manag	ement	1C	MMA	303	Complex Analysis I	1 E
MMA	313	Fundamentals of Measure		MMA	304	Group Theory	1 E
		Theory	1 E	MMA	306	Numerical Analysis IV	1 E
MMA	300	Real Analysis II	1 E	MMA	309	Real Analysis III	1 E
MMA	305	Numerical Analysis III	1 E	MMA	310	Dynamics II	1 E
MMA	307	Methods I	1 E	MMA	311	Waves	1 E
MMA	308	Fluid Mechanics I	1 E	MMA	312	Operations Research I	1 E
MAS	301	Numerical Analysis I	1 E	MAS	302	Mathematical Methods	1 E
MAS	303	Estimation Theory	1 E	MAS	304	Test of Hypotheses	1 E
MAS	305	Stochastic Processes I	1 E	MAS	306	Statistical Modelling	1 E
MAS	307	Theory of sampling Techniques	1 F	MAS	308	Analysis of Experimental	
MAS	309	Time Series Analysis and				Designs I	1 F
		Forecasting	1 F	MAS	310	Stochastic Decision Models I	1 F
MAS	311	Statistical Demography I	1 F	MAS	312	Statistical Computing II	1 F
MAS	313	Principles of Econometrics	1 F	MAS	314	Research Methodology	1 F
MAS	315	Statistical Genetics	1 F	ARA	313	Trust and Executorships	
SAC.	307	Financial Economics I	1 F	/ U/ (010	Accounts	1 F
	302		1 E	ΔΒΔ	31/	Tax Planning and Management	1 6
	302	Financial Management	1 E	ΔΒΔ	315	Quantitative Methods in	
	305	Auditing I	1 🗆	ADA	515		1 ⊑
	305	Managorial Economics	1 🗆		317	Auditing II	
	307	Human Posourco stratogy &	1 🗠		318	Financial Institutions and	
ADA	307	Doliov	1 ⊑	ADA	510	Markata	1 ⊏
	208	Folicy Salas Managament			210	Financial Dianning Budgeting	
	200	Sales Management		ADA	519		1 [
ADA	309	Dianning Strategy and	1 Г		220	& COILLOI	
	240	Advertision		ADA	320		4 -
ABA	310	Advertising			204		1 E
ABA	311	Marketing Communication		ABA	321	Labor Relations	
ABA	312		1 E	ABA	322	Organizational Benavior	ΊE
ABA	321	Labour Relations	ΊE	ABA	323	Productions and Operations	. –
ABA	331	Organizational theory and	4 5		204	Management	1 E
450	004	Behaviour	1 E	ABA	324	Marketing of Services	1 E
AEC	321	Labour Economics	1 E	ABA	325	International Marketing	1 E
ABA	335	Procurement and supply	. –	ABA	326	Retail Management	1 E
		chain: Theory and Practice	1 E	ABA	327	Consumer Behavior	1 E
ABA	336	Supply chain Processes	1 E	ABA	332	Human Resource Planning	1 E
ABA	337	Public procurement		ABA	322	Human Capital Management	1 E
		Management	1 E	ABA	333	Performance Management	1 E
ABA	338	Procurement legal framework	1 E	ABA	334	Compensations Management	1 E
ABA	339	Procurement in Project		ABA	340	International Procurement	
	Enviror	nments	1 E			Management	1 E
				ABA	341	Relationships and Negotiations	
SECC	OND SEM	ESTER				Management	1 E
MMA	314	Introduction to PDE	1 C	ABA	342	Procurement records and	
ABA	316	Research Methods in Business	1 C			Inventory Management	1 E
CCS	309	Human Computer Interaction	1C	ABA	343	Risk Management in supply	
CIT	317	Multimedia and Graphics	1C			Chain	1 E
SMI	302	Statistical Computing II	1 E	MMA	317	Industrial Attachment	
SMI	304	Introduction to object oriented					
		programming	1 E	or			
SMI	306	Web design Project	1 E	ABA	330	Industrial Attachment	
MMA	302	Linear Algebra III	1 E				



Fourth Year

FIRST SEMESTER

CCS	403	Management information	
		systems	1C
CIT	404	IT and Society	1C
SMI	401	Bayesian Modelling	1 E
SMI	403	Writing Macros	1 E
SMI	405	Programming: Advanced	
•		objects and Data Structures	1 E
MMA	405	Partial Differential Equations I	1 E
MMA	401	Ring Theory	1 E
MMA	403	Topology I	1 E
MMA	404	Complex Analysis II	1 E
MMA	406	Numerical Analysis V	1 E
MMA	409	Differential Geometry	1 E
MMA	412	Fluids Mechanics II	1 E
MMA	413	Methods II	1 E
MMA	417	Group Theory II	1 E
MMA	420	Operation Research II	1 E
MAS	401	Further Distribution Theory	1 F
MAS	403	Non Parametric methods	1 F
MAS	405	Analysis of Experimental	• =
		Designs II	1 F
MAS	407	Further Time series Analysis	1 F
MAS	409	Further Sample Survey	. –
1017 10	100	Theory and Methods	1 F
MAS	411	Stochastic Decision Models II	1 F
MAS	413	Stochastic Models for	
1017 (C)	410	Biological Processes	1 F
MAS	415	Biometric Models	1 F
MAS	417	Statistical Demography II	1 F
MAS	419	Econometric Models I	1 F
MAS	421	Stochastic Processes II	1 F
MAS	423	Practical Statistics	1 F
MAS	425	Labour Dynamics	1 F
MAS	427	Agricultural Indices	1 F
MAS	429	Energy Analysis	1 F
MAS	431	Teaching of Statistics	1 F
SAC	401	Mathematics of Demography &	
0/10	101	Graduation	1 F
SAC	407	Principles of Financial	
0/10	407	Management	1 F
SAC	411	Theory of Business decisions	1 F
SAC	/15	Survival Analysis	
	401	Auditing Practice and	
/ (0/ (401	Investigation	1 F
ΔΒΔ	402	Quantitative Methods in	
יוטיי	TVL	Rusiness II	1 F
ΔRΔ	403	Advanced Financial	ı ۲
ΛUΛ	100	Accounting I	1 F
ΔRΔ	404	Management Accounting I	1 -
אטא		management Accounting I	1 L

ABA	405	Strategic Management	1 E
ABA	406	Management of Financial	4 🗖
	407		
ABA	407	Insurance Theory and Practice	ΊE
ABA	408	International Business	. –
		Management	1 E
ABA	409	Planning Theory and Techniques	s1 E
ABA	410	Applications of Marketing	
		Research	1 E
ABA	411	Industrial Marketing	1 E
ABA	412	Logistics Management	1 E
ABA	413	Entrepreneurship & small	
		Business Mgt	1 E
ABA	414	Issues in Management	1 E
ABA	433	Employee Development and	
		Careers Management	1 E
ABA	434	Occupational Health and Safety	1 E
ABA	438	Logistics Management	1 F
ARA	439	Financial Management in SCM	1 F
ΔRΔ	440	E- Procurement and Supply Cha	in
ADA	0	Management	1 ⊑
	111	Operations Management	1 🗆
	441	Dreaurament Audit and	
ADA	44Z		4 🗖
		Investigations	
SECO			
SEUU			
CIT	110	IT and Davidanment	10
CIT	418	IT and Development	1C
CIT CIT	418 428	IT and Development Business Process Management	1C 1C
CIT CIT SMI	418 428 402	IT and Development Business Process Management Problem based statistical	1C 1C
CIT CIT SMI	418 428 402	IT and Development Business Process Management Problem based statistical analysis	1C 1C 1 E
CIT CIT SMI SMI	418 428 402 404	IT and Development Business Process Management Problem based statistical analysis Algorithms	1C 1C 1 E 1 E
CIT CIT SMI SMI SMI	418 428 402 404 406	IT and Development Business Process Management Problem based statistical analysis Algorithms Programming project	1C 1C 1 E 1 E 1 E
CIT CIT SMI SMI SMI MMA	418 428 402 404 406 402	IT and Development Business Process Management Problem based statistical analysis Algorithms Programming project Measure Theory	1C 1C 1 E 1 E 1 E 1 E
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CIT CIT SMI SMI SMI MMA MMA MMA MMA MMA MMA	418 428 402 404 406 402 414 407 407 408 411 415	IT and Development Business Process Management Problem based statistical analysis Algorithms Programming project Measure Theory Fourier Analysis Functional Analysis Field Theory Topology II Partial Differential Equations II Fluid Mechanics III	1C 1C 1E 1E 1E 1E 1E 1E 1E 1E 1E
CIT CIT SMI SMI SMI MMA MMA MMA MMA MMA MMA	418 428 402 404 406 402 414 410 407 408 411 415 416	IT and Development Business Process Management Problem based statistical analysis Algorithms Programming project Measure Theory Fourier Analysis Functional Analysis Field Theory Topology II Partial Differential Equations II Fluid Mechanics III Galois Theory	1C 1C 1 E 1 E 1 E 1 E 1 E 1 E 1 E 1 E 1 E 1 E
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CIT CIT SMI SMI SMI MMA MMA MMA MMA MMA MMA MMA MMA MMA M	418 428 402 404 406 402 414 410 407 408 411 415 416 418 419 429 402 408	IT and Development Business Process Management Problem based statistical analysis Algorithms Programming project Measure Theory Fourier Analysis Functional Analysis Field Theory Topology II Partial Differential Equations II Fluid Mechanics III Galois Theory Algebraic Geometry Numerical Analysis VI Operations Research III Bayesian Inference and Decisior Theory Multivariate Methods	1C 1 E E E E E E E E E E E E E E E E E E E
CIT CIT SMI SMI SMI MMA MMA MMA MMA MMA MMA MMA MMA MMA M	418 428 402 404 406 402 414 410 407 408 411 415 416 418 419 429 402 408 408 406	IT and Development Business Process Management Problem based statistical analysis Algorithms Programming project Measure Theory Fourier Analysis Functional Analysis Field Theory Topology II Partial Differential Equations II Fluid Mechanics III Galois Theory Algebraic Geometry Numerical Analysis VI Operations Research III Bayesian Inference and Decision Theory Multivariate Methods Robust Methods and	1C 1 E 1 E 1 E 1 E E E E E E E E E E E E E
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CIT CIT SMI SMI SMI MMA MMA MMA MMA MMA MMA MMA MMA MMA M	418 428 402 404 406 402 414 410 407 408 411 415 416 418 419 429 402 408 406 406 410	IT and Development Business Process Management Problem based statistical analysis Algorithms Programming project Measure Theory Fourier Analysis Functional Analysis Field Theory Topology II Partial Differential Equations II Fluid Mechanics III Galois Theory Algebraic Geometry Numerical Analysis VI Operations Research III Bayesian Inference and Decision Theory Multivariate Methods Robust Methods and Non-Parametrics Statistical Model Building	1C 1C 1EEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE
CIT CIT SMI SMI SMI MMA MMA MMA MMA MMA MMA MMA MMA MMA M	418 428 402 404 406 402 414 410 407 408 411 415 416 418 419 429 402 408 406 410 412	IT and Development Business Process Management Problem based statistical analysis Algorithms Programming project Measure Theory Fourier Analysis Functional Analysis Field Theory Topology II Partial Differential Equations II Fluid Mechanics III Galois Theory Algebraic Geometry Numerical Analysis VI Operations Research III Bayesian Inference and Decision Theory Multivariate Methods Robust Methods and Non-Parametrics Statistical Model Building Stochastic Models for Social	1C 1C 1E 1E 1E 1E 1E 1E 1E 1E 1E 1E 1E 1E 1E
CIT CIT SMI SMI SMI MMA MMA MMA MMA MMA MMA MMA MMA MMA M	418 428 402 404 406 402 414 410 407 408 411 415 416 418 419 429 402 408 402 408 406 410 412	IT and Development Business Process Management Problem based statistical analysis Algorithms Programming project Measure Theory Fourier Analysis Functional Analysis Field Theory Topology II Partial Differential Equations II Fluid Mechanics III Galois Theory Algebraic Geometry Numerical Analysis VI Operations Research III Bayesian Inference and Decisior Theory Multivariate Methods Robust Methods and Non-Parametrics Statistical Model Building Stochastic Models for Social Processes	1C 1 E E E E E E E E E E E E E E E E E E E
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MAS	416	Quality Control Methods	1 E
MAS	418	Applied Population Analysis	1 E
MAS	420	Applied demography	1 E
MAS	422	Econometric Models II	1 E
MAS	424	Applied Econometrics	1 E
MAS	426	Statistical Computing III	1 E
MAS	428	Response Surface	
		Methodologies	1 E
MAS	430	Educational Statistics	1 E
MAS	432	Health Indicators	1 E
MAS	434	Government Financing	
		Structure	1 E
MAS	436	Environmental/Ecological	
		Indicators	1 E
MAS	438	Statistical Organization	1 E
SAC	404	Computational Finance	1 E
SAC	406	Risk and Credibility Theory	1 E
SAC	408	Risk Mathematics	1 E
ABA	415	Advanced Financial	. –
		Accounting II	1 E
ABA	416	Management Accounting II	1 E
ABA	417	Bankruptcy and Insolvency	. –
		Accounts	1 E
ABA	418	Total Quality Management	1 E
ABA	419	International Finance	1 F
ABA	420	Corporate Finance	1 E
ABA	421	Insurance Risk Management	1 F
ABA	422	International trade	1 F
ABA	423	Strategic Marketing	1 F
ABA	424	Labor Law	1 F
ABA	425	Conflict Management	1 F
ARA	426	Accounting Theory	1 F
ARA	427	Product Management	1 F
ARA	428	Social Security Pensions Fund	1 F
ARA	429	Planning and Administrative	
/\D/\	720	Decision Making	1 F
ARA	430	Agricultural Marketing	1 F
ARA	431	Public Relations	1 F
ARA	432	Issues in Marketing	
/\D/\	402	Management	1 F
ΔRΔ	435	International HRM	1 F
	136	Industrial and Labour Laws	1 6
	430 //37	Contemporary issues in Human	
ADA	-57	Resource Management	1 ⊑
ΔRΔ	113	Procurement and Supply Chain	
ADA	770	Research	1 F
ΔRΔ	111	Contracts and Dispute	
ADA	444	Management	1 ⊑
ΔRΔ	115	Strategic Procurement	
AD4	44 J	Management	1 ⊏
ΔRΔ	4/6	Sustainable Supply Chain	
אטר <i>ו</i>	- - -0	Management	1 F
		management	тĽ

