DEPARTMENT OF MATHEMATICS AND APPLIED MATHEMATICS

STUDY PROGRAMME: BSc Mathematics (2021)

(code: 02133263)

Admission requirements for this study programme: Matric: NSC Mathematics level 6 (70% - 79%) and an APS of 32.

latric: NSC Mathematics level 6	(
irst year, first semester:			
Code	Name Prerequisite	9S	Credits
LST 110 WST 111	Language and study skills 110 Mathematical Statistics 111		6 16
WTW 114		2 at least 5(60-69%)	16
WTW 115		2 at least 4(50-59%)	8
WTW 152		2 at least 4(50-59%)	8
irst year, second semester			
Code	Name Prerequisite	PS	Credits
	Academic Information		
AIM 102	Management 102* AIM 102		6
WST 121	Mathematical Statistics 121 WST 111 G	_	16
WTW 123	Numerical Analysis 123 WTW 114 (GS	8
WTW 124 WTW 162	Mathematics 124 WTW 114 Dynamical Processes 162 WTW 114 C		16
	111 and AIM 121 instead of AIM 102 (the same content spaced		8
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hoose electives according to	the following combinations with a view to pursuing specialisation	n in the relevant field:	
Physics	PHY 114 and PHY 124		32
Chemistry	CMY 117 and CMH 127		32
Economics	EKN 110, EKN 120 and one of FRK 111 or OBS 114 or FBS 1	12	30
st year:	Compulsory credits: 108 Elective cre	dits: 30	
second year, first semester			
Code	Name Prerequisite	es es	Credits
WTW 211	Linear Algebra 211 WTW 124	LINETAL CO.	12
WTW 218	Calculus 218 WTW 114 a	and WTW 124	12
WTW 286	Differential Equations 286 WTW 114,	WTW 124 and WTW 162	12
econd year, second semes	er:		
Code	Name Prerequisite	es	Credits
WTW 220	Analysis 220 WTW 114, V	WTW 124, WTW 211 and WTW 218	12
WTW 221	Linear Algebra 221 WTW 211 a	and WTW 218	12
WTW 248	Vector Analysis 248 WTW 218		12
WTW 285	Discrete Structures 285 WTW 115		12
Choose electives according to	the following combinations with a view to pursuing specialisation	n in the relevant field:	
Physics	PHY 255 and PHY 263		48
,			
Chemistry	CMY 282, CMY 283, CMY 284 and CMY 285		48
	EKN 214, EKN 224 and EKN 234		48
Economics			40
Statistics	WST 211 and WST 221	dite. 40	48
Statistics		dits: 48	48
Statistics nd year:	WST 211 and WST 221	dits: 48	48
Statistics and year:	WST 211 and WST 221		48 Credits
Statistics nd year: hird year, first semester: Code WTW 310	WST 211 and WST 221 Compulsory credits: 84 Elective cre Name Analysis 310 WTW 220	es es	
Statistics nd year: hird year, first semester: Code	WST 211 and WST 221 Compulsory credits: 84 Elective cre Name Analysis 310 WTW 220		Credits
Statistics nd year: hird year, first semester: Code WTW 310 WTW 381 hird year, second semester	WST 211 and WST 221 Compulsory credits: 84 Elective cre Name Prerequisite Analysis 310 Algebra 381 WTW 114 a	es and WTW 211	Credits 18 18
Statistics nd year: hird year, first semester: Code WTW 310 WTW 381 hird year, second semester Code	WST 211 and WST 221 Compulsory credits: 84 Elective cre Name Prerequisite Analysis 310 Algebra 381 WTW 114 a Name Prerequisite Prerequisite	and WTW 211	Credits 18 18 Credits
Statistics Ind year: Chird year, first semester: Code WTW 310 WTW 381 Chird year, second semester Code WTW 320	WST 211 and WST 221 Compulsory credits: 84 Elective cre Name Analysis 310 Algebra 381 WTW 114 a Name Prerequisite Name Prerequisite Name Prerequisite WTW 218 a	es and WTW 211	Credits 18 18 Credits 18
Statistics Ind year: Code WTW 310 WTW 381 Chird year, second semester Code WTW 320 WTW 389	WST 211 and WST 221 Compulsory credits: 84 Elective cre Name Analysis 310 Algebra 381 WTW 114 a Name Prerequisite WTW 114 a Complex Analysis 320 Geometry 389 WTW 211	es and WTW 211	Credits 18 18 Credits 18 18
Statistics Ind year: Ind year, first semester: Code WTW 310 WTW 381 WTW 381 WTW 320 WTW 389 Itudents may choose module:	WST 211 and WST 221 Compulsory credits: 84 Elective cre Name Analysis 310 Algebra 381 WTW 220 Algebra 381 WTW 114 at a a a complex Analysis 320 Geometry 389 WTW 211 From Physics, Chemistry, Economics, Mathematical Statistics, and a complex Analysis, Chemistry, Economics, Mathematical Statistics, and a complex Analysis and a complex Analysis 320 WTW 211	es and WTW 211	Credits 18 18 Credits 18 18
Statistics Ind year: Ind year, first semester: Code WTW 310 WTW 381 Individual year, second semester Code WTW 320 WTW 389 Itudents may choose modules are	WST 211 and WST 221 Compulsory credits: 84 Elective credits: 84 Elective credits: 84	es and WTW 211	Credits 18 18 Credits 18 18
Statistics Ind year: Ind year, first semester: Code WTW 310 WTW 381 Ind year, second semester Code WTW 320 WTW 389 Itudents may choose module: ollowing elective modules are hysics	WST 211 and WST 221 Compulsory credits: 84 Elective credits: 84 Elective credits: 84	es and WTW 211	Credits 18 18 Credits 18 18
Statistics Ind year: Ind year, first semester: Code WTW 310 WTW 381 Ind year, second semester Code WTW 320 WTW 389 Itudents may choose modules are hysics Ithemistry	WST 211 and WST 221 Compulsory credits: 84 Elective cre Name Analysis 310 Algebra 381 WTW 114 a Name Prerequisite Complex Analysis 320 Geometry 389 WTW 211 from Physics, Chemistry, Economics, Mathematical Statistics, suggested to pursue an honours degree: PHY 356 and PHY 364 CMY 382, CMY 383, CMY 384 and CMY 385	es and WTW 211	Credits 18 18 Credits 18 18
Statistics Ind year: Third year, first semester: Code WTW 310 WTW 381 WITH 381 WITH 320 WTW 389 Students may choose module: Dollowing elective modules are Physics Chemistry Conomics	WST 211 and WST 221 Compulsory credits: 84 Elective credits: 84 Elective credits: 84	es and WTW 211	Credits 18 18 Credits 18 18
Statistics Ind year: Code WTW 310 WTW 381 Chird year, second semester Code WTW 320 WTW 389 Students may choose module: Collowing elective modules are Chysics Chemistry Conomics Mathematical Statistics	WST 211 and WST 221 Compulsory credits: 84 Elective credits: 84 Elective credits: 84	es and WTW 211	Credits 18 18 Credits 18 18
Statistics Ind year: Code WTW 310 WTW 381 Code WTW 381 Code WTW 320 WTW 389 Students may choose module:	WST 211 and WST 221 Compulsory credits: 84 Elective credits: 84 Elective credits: 84	es and WTW 211	Credits 18 18 Credits 18 18
Statistics Ind year: Code WTW 310 WTW 381 Chird year, second semester Code WTW 320 WTW 389 Students may choose module: Collowing elective modules are Chysics Chemistry Conomics Mathematical Statistics	WST 211 and WST 221 Compulsory credits: 84 Elective credits: 84 Elective credits: 84	es and WTW 211 es and WTW 220 Applied Mathematics and Financial Mathem	Credits 18 18 Credits 18 18
Statistics Ind year: Ind year, first semester: Code WTW 310 WTW 381 Indirect year, second semester Code WTW 320 WTW 389 Itudents may choose module are objected by the second semester of the second seminative of the second seminative of the second seminative of the second seminative of the s	WST 211 and WST 221 Compulsory credits: 84 Elective credits: 84 Elective credits: 84	and WTW 211 as and WTW 220 Applied Mathematics and Financial Mathema	Credits 18 18 Credits 18 18
Statistics Ind year: Ind year, first semester: Code WTW 310 WTW 381 Indirection of the semester Code WTW 320 WTW 320 WTW 389 Students may choose module: Dellowing elective modules are Physics Chemistry Conomics Mathematical Statistics Inplied Mathematics	WST 211 and WST 221 Compulsory credits: 84 Elective credits: 84 Elective credits: 84	and WTW 211 as and WTW 220 Applied Mathematics and Financial Mathema	Credits 18 18 Credits 18 18