

	KENYATTA UNIVERSITY QUALITY MANAGEMENT SYSTEM	Ref.:	<i>KU/ACAD/SOP/8.5-1</i>
		Ver.:	<i>1.0</i>

Department:	MATHEMATICS AND ACTUARIAL SCIENCE		
Programme:			
Academic Year:	2020/2021	Semester	I
Title:	Units Allocation List	Date:	5 th January 2020

Level 200				
	SAC 201	Principles of Law	35 Hours	100
	SAC 202	Models in Actuarial Mathematics	35 Hours	100
	SAC 204	Risk Management	35 Hours	100
	SMA 200	Calculus II (4 groups)	35 Hours	Group1: E136, E34 & E35
			35 Hours	Group2: E37 & E41
			35 Hours	Group3: K24
			35 Hours	Group4: I122, I162, I163, I20
			35 Hours	Group5: CO1, I21, I71, I73, J17
	SMA 202	Linear Algebra I (3 groups)	35 Hours	Group1: E37, E41, E136, E213
			35 Hours	Group2: E34 & E35
			35 Hours	Group3: CO1, E37S, I163 & I20
	SMA 204	Algebraic Structures	35 Hours	100
	SMA 230	Vector Analysis	35 Hours	100
	SST 200	Introduction to Computer Interactive Statistics	35 Hours	100
	SST 202	Object Oriented Programming	35 Hours	100
	SST 204	Probability and Statistics I	35 Hours	Group1: C01, E37, I122 & I163
			35 Hours	Group2: I162, I20, I71 & I73
			35 Hours	Group3: K24

LEVEL 300				
	SAC 300	Differential Equations	35 Hours	100
	SAC 301	Actuarial Mathematics II	35 Hours	100
	SAC 302	Financial Mathematics	35 Hours	100
	SAC 307	Financial Economics	35 Hours	100
	SAC 308	General Insurance	35 Hours	100
	SMA 300	Real Analysis I	35 Hours	Group 1: E136, E34, E41, E37
			35 Hours	Group 2: CO1, E35, I20, I122, I163 & others
	SMA 302	Group Theory I	35 Hours	50
	SMA 304	Number Theory	35 Hours	50
	SMA 330	Numerical Analysis I	35 Hours	150
	SMA 333	Fluid Mechanics I	35 Hours	25
	SMA 335	Ordinary Differential Equation I	35 Hours	Group1: E136, E34 & E35
			35 Hours	Group2: E37
			35 Hours	Group3: CO1, I20, I122, I163
	SMA391	Object Oriented Programming	35 Hours	100
	SST 301	Programming Language for Statistics I	35 Hours	100
	SST 304	Multivariate Statistical Methods I	35 Hours	100
	SST 305	Theory of Estimation	35 Hours	A1(300)
			35 Hours	A2(300)
LEVEL 400				
	SAC 401	Survival Models	35 Hours	100
	SAC 402	Principles of Financial Management	35 Hours	100
	SAC 405	Loss Distributions and Credibility Theory	35 Hours	100
	SAC407	Project in Actuarial Science		
	SAC 408	Theory of Business and Decisions	35 Hours	100
	SMA 400	Topology I	35 Hours	50
	SMA 402	Field Theory	35 Hours	25
	SMA 404	Complex Analysis II	35 Hours	Group 1: E34, E41, & E37
			35 Hours	Group 2: E35, I20, I163, C01 & others

	SMA 406	Functional Analysis	35 Hours	100
	SMA 431	Differential Geometry	35 Hours	150
	SMA 432	Partial Differential Equations I	35 Hours	Group1: E37
			35 Hours	Group2: CO1, E136, E34, E35, E41, I163, I20
38	SST 401	Decision Theory	35 Hours	100
39	SST 404	Econometrics II	35 Hours	100
40	SST 408	Design and Analysis of Sample Surveys II	35 Hours	100
41	SST 409	Stochastic Processes	35 Hours	100
42	SST 411	Time Series Analysis	35 Hours	100
43	SST 412	Designs and Analysis of Experiments	35 Hours	100
44	SST 413	Measure and Probability	35 Hours	100
MSc. Applied Mathematics - Year 1 Semester 2				
1	SMA831	Differential Equations II	35 Hours	
2	SMA833	Fluid Mechanics II	35 Hours	
3	SMA835	Numerical Analysis II	35 Hours	
4	SMA837	Methods of Applied Mathematics	35 Hours	
5	SMA840	Differential Geometry	35 Hours	
MSc. Applied Mathematics - Year 2 Semester 1				
1	SMA840	Differential Geometry	35 Hours	
2	SMA841	Partial Differential Equations I	35 Hours	
3	SMA845	Fluid Mechanics III	35 Hours	
4	SMA847	Numerical Analysis III	35 Hours	
MSC STATISTICS (Group 2.1 and 2.2) – City Campus				
1	SST814	Time Series Analysis	35 Hours	5
2	SST820	Demographic Techniques	35 Hours	5
3	SST822	Contingency Tables Analysis	35 Hours	5
4	SST823	Survival Analysis	35 Hours	5