	BACHELOR OF ACTUARIAL SCIENCE			
SESSION 2018/2019 (145 CREDITS) 1. UNIVERSITY COURSES (22 CREDITS)				
				COURSE CODE
GLTxxxx	Communication in English	-	6	
	Co-curriculum	-	2	
GIG1001	Islamic and Asian Civilization (TITAS)	-	2	
GIG1002/ GIG1006	Ethnic Relations/ Introduction to Malaysia	-	2	
GIG1000	Basic Entrepreneurship Culture		2	
GIG1004	Information Skills	-	2	
	Social Engagement	-	2	
GIXxxxx	External Faculty Elective Course	-	4	
2. CORE COURSI	ES (83 CREDITS)			
(I) FACULTY	CORE COURSES (8 CREDITS) [TF]			
COURSE CODE	COURSE NAME	PRE-REQUISITE	CREDITS	
	Introduction to Science & Technology Studies	-	3	
	Ethics and Safety	-	2	
	Statistics	-	3	
	I CORE COURSES (75 CREDITS) [TP]		-	
COURSE CODE	COURSE NAME	PRE-REQUISITE	CREDITS	
LEVEL 1 (17 Credit				
SIM1001 SIM1002	Basic Mathematics Calculus I		4	
	Introduction to Worksheet		4	
	Calculus II	 SIM1002	4	
SIQ1001	Introduction to Accounting	-	3	
LEVEL 2 (26 Credit			Ū	
SIM2001	Advanced Calculus	SIM1003	4	
SIN2002	Structured Programming	SIM1002	4	
SIT1001	Probability and Statistics I	SIM1002	4	
SIT2001	Probability and Statistics II	SIT1001	4	
SIQ2001	Microeconomics	-	3	
SIQ2002	Macroeconomics	-	3	
	Financial Mathematics and Derivatives	SIM1002	4	
LEVEL 3 (16 Credit SIQ3001	Actuarial Mathematics I	SIQ2003	4	
SIQ3002	Portfolio Theory and Asset Models	SIQ2003	4	
SIQ3002 SIQ3003	Actuarial Mathematics II	SIQ2003	4	
SIQ3004	Mathematics of Financial Derivatives	SIQ2003	4	
LEVEL 4 (16 Credit		0.42000		
	Life Insurance and Takaful	SIT2001	4	
SIQ3006	Risk Theory	SIT2001 and SIQ2003	4	
SIQ3007	Industrial Training	-	8	
3. ELECTIVE COU	URSES (40 CREDITS)			
(I) PROGRAM	I ELECTIVE COURSES (at least 31 CREDITS) [EI	P]		
SIN1003	Mathematical Methods I	SIM1002	4	
SIM2002	Linear Algebra	SIM1001	4	
SIN2001	Mathematical Methods II	SIN1003	4	
SIN2003	Basic Operational Research	SIM1001	4	
SIT2002	Further Mathematical Statistics	SIT2001	4	
SIT2003	Stochastic Processes	SIT2001	4	
SIT2004	Regression Analysis	SIT1001	4	
SIN3015	Mathematical Science Project	SIM2002	4	
SIT3003	Computer Intensive Methods in Statistics	SIT2001	4	
SIT3004 SIT3005	Applied Stochastic Processes Time Series and Forecasting Methods	SIT2003 SIT2001	4 4	
0110000	Further Topics in Regression Analysis	SIT2001 SIT2001 and SIT2004	4	
	i uriner rupius in negressiuri Arialysis		4	
SIT3006	Introduction to Data Mining	SIT2001	1	
SIT3006 SIT3010	Introduction to Data Mining Foundation of Islamic Finance	SIT2001 SIN2002	4	
SIT3006	Introduction to Data Mining Foundation of Islamic Finance Pension Mathematics	SIT2001 SIN2002 SIQ3001	4 4 4	

(II) FACULTY ELECTIVE COURSES (9 CREDITS) [EF]

- * Courses Offered by Other Institute/Department within the Faculty of Science
- * Refer to the Faculty Elective Courses lists other than from the Institute of Mathematical Sciences but within the Faculty of Science
- 1. The exact number of courses (as shown above) that will be offered for any year may be different, depending on the availability of manpower.
- 2. Core courses under Bachelor of Science in Mathematics, Bachelor of Science in Applied Mathematics or Bachelor of Science in Statistics may also be taken by a student in Bachelor of Actuarial Science program as Program Elective Courses. Please refer to the relevant programs.
- 3. Actuarial students must take at least 110 of credits before undergoing the practical training (SIQ3007).
- 4. Actuarial students are also encouraged to take CIX2001 (Financial Management) and CIC2001 (Basic Corporate Finance) as Program Elective Courses.

Attention:

Courses with codes SIQ**** except SIQ2003 are exclusive for students in Bachelor of Actuarial Science.