BACHELOR OF SCIENCE IN APPLIED MATHEMATICS SESSION 2017/2018 (128 CREDITS)			
1. UNIVERSITY COURSES (20 CREDITS)			
COURSE CODE	COURSE NAME	PRE-REQUISITE	CREDITS
GLT	Communication in English	-	6
GKN/GKR/GKV	Co-curriculum	-	2
GIG1001	Islamic and Asian Civilization (TITAS)	-	2
GIG1002/	Ethnic Relations/	-	2
GIG1006	Introduction to Malaysia		
GIG1003	Basic Entrepreneurship Culture	-	2
GIG1004	Information Skills	-	2
GIG1005	Social Engagement	-	2
GIXXXXX	External Faculty Electives Course	-	2
(I) FACULIN	CORE COURSES (8 CREDITS) [IF]		
COURSE CODE	COURSE NAME	PRE-REQUISITE	CREDITS
SIX1001	Introduction to Science and Technology Studies	-	3
SIX1002	Ethics and Salety	-	2
		-	3
LEVEL 1 (24 Cred		PRE-REQUISITE	CREDITS
SIM1001	Basic Mathematics	-	4
SIM1002	Calculus I	-	4
SIM1003		SIM1002	4
SIN1001	Introduction to Computing	-	2
SIN1002	Introduction to Worksheet	-	2
SIN1003	Mathematical Methods I	SIM1002	4
SIT1001	Probability and Statistics I	SIM1002	4
LEVEL 2 (36 Credits)			
SIM2001	Advanced Calculus	SIM1003	4
SIM2002	Linear Algebra	SIM1001	4
SIN2001	Mathematical Methods II	SIN1003	4
SIN2002	Structured Programming	SIM1002	4
SIN2003	Basic Operational Research	SIM1001 and SIN1002	4
SIN2004	Partial Differential Equations	SIN1003	4
SIN2005	System of Differential Equations	SIN1003	4
SIN2006	Vector Analysis	SIM1003	4
SII2001	Probability and Statistics II	SI11001	4
ELEVEL 3 (5 Credit	S)	SIM2002	F
	I Industrial Training	311/12002	5
(I) PROGRAM ELECTIVE COURSES (at least 28 CREDITS) [EP]			
	Management Mathematic	SIM1002	1
SIN2008	Ontimization Technique	SIM2001	4
SIN2009	Computer Graphics	SIN1001 and SIN2002	4
SIN3001	Introduction to Quantum Mechanics with Computers	SIN2002	4
SIN3002	Cryptography	SIN2002 and SIT1001	4
SIN3003	Computational Fluid Dynamics	SIN2004	4
SIN3004	Analysis of Mathematical Models	SIN2005	4
SIN3005	Numerical Methods and Analysis	SIN2001	4
SIN3006	Production and Inventory Control	SIN2003 or SIN2007	4
SIN3007	Heuristic Methods	SIN2002	4
SIN3008	Mathematical Programming	SIN2003	4
SIN3009	Industrial Operational Research	SIN2003	4
SIN3010	Computational Geometry	SIN2002	4
SIN3011	Scientific Computing	SIN2002	4
SIN3012	Mechanics	SIN2006	4
SIN3013	Fourier and Wavelets Analysis	SIN1001 and SIM2002	4
SIN3015	Mathematical Science Project	SIM2002	4
(II) FACULTY ELECTIVE COURSES (7 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

The exact number of elective courses offered in each year may differ. Core courses, from the Bachelor of Science in Mathematics, Bachelor of Science in Statistics or Bachelor of Actuarial Science programs may be taken as elective courses. Please refer to the respective programs.

Attention:

- Students who wish to specialize in Bachelor of Science in Applied Mathematics must take at least 20 credits from courses with codes SIN3***/SIM3***/SIT3***/SIQ3***(except SIN3014) of which at least 12 credits must be from SIN3***.
- 2. Students who wish to take SIN3014 or SIN3015 must pass at least 80 credits of the listed mathematics courses.