BACHELOR OF SCIENCE IN STATISTICS ACADEMIC SESSION 2021/2022 (134 CREDITS)						
UNIVERSITY COURSES (12 CREDITS)						
COURSE CODE	COURSE NAME		CREDITS			
GIG1012 /	Philosophy and Current Issues (local students) /		2			
GLT1017*	Basic Malay Language (*only for international stu	idents)				
GIG1013	Appreciation of Ethics and Civilisations		2			
GIG1003	Basic Entrepreneurship Enculturation		2			
GKA/GKI/GKK/	Co-Curriculum		2			
GKP/GKS/GKU						
GLTxxxx	English Course (subject to MUET bands)		4			
CORE COURSES (_				
COURSE CODE	COURSE NAME	PRE-REQUISITE	CREDITS			
LEVEL 1 (26 Credit			-			
SIX1015	Science, Technology and Society	-	2			
SIM1001	Basic Mathematics	-	4			
SIM1002	Calculus I	-	4			
SIM1003	Calculus II	SIM1002	4			
SIT1001	Probability and Statistics I SIM1002		4			
SIT1002	Statistical Programming	-	4			
SIT1003	Analysis of Data and Statistical Report Writing	-	4			
LEVEL 2 (28 Credit	ts)					
SIM2001	Advanced Calculus	SIM1003	4			
SIM2002	Linear Algebra	SIM1001	4			
SIT2001	Probability and Statistics II	SIT1001	4			
SIT2007	Foundations of Data Science	SIT1001	3			
SIT2008	Further Mathematical Statistics	SIT2001	4			
SIT2009	Regression Analysis	SIT1001 SIT2001	4			
SIT2010	Stochastic Processes	3				
SIT2011	Statistics and Community	2				
LEVEL 3 (22 Credits)						
SIT3005	Time Series and Forecasting Methods	SIT2001	4			
SIT3015	Introduction to Multivariate Analysis SIT2001 3					
SIT3016	Generalized Linear Models	SIT2001 and SIT2009	4			
SIT3017	Statistical Learning and Data Mining	SIT2007	3			
SIT3021	Industrial Training	SIT3017	8			

ELECTIVE COURSES (46 CREDITS)					
(I) PROGRAM ELECTIVE COURSES (at least 38 CREDITS)					
COURSE CODE	COURSE NAME	PRE-REQUISITE	CREDITS		
SIM2010	Numerical Computation	SIM1003	4		
SIM2012	Basic Operations Research	4			
SIQ1001	Introduction to Accounting	-	3		
SIQ2001	Microeconomics	-	3		
SIQ2002	Macroeconomics	-	3		
SIQ2003	Financial Mathematics and Derivatives	SIM1002	4		
SIT3003	Computer Intensive Methods in Statistics	SIT2001	4		
SIT3004	Applied Stochastic Processes	SIT2010	4		
SIT3008	Introduction to Survey Sampling	SIT2001	4		
SIT3009	Statistical Process Control	SIT2001	4		
SIT3012	Design and Analysis of Experiments	SIT1001 and SIT2009	4		
SIT3013	Analysis of Failure and Survival Data	SIT2001	4		
SIT3018	Non-Parametric Statistics	SIT1001	4		
SIT3019	Introduction to Bayesian Statistics	SIT2001	4		
SIT3020	Python for Data Science	SIT3017	4		
SIT3022	Probability Theory SIM2001 and SIT2008		4		
SIT3023	Statistical Laboratory	SIT1002 and SIT2007	3		
SIT3024	Statistical Consultancy and Data Analysis	SIT3021	3		
SIT3025	Statistical Science Project	4			
The exact number of	of program elective courses offered in each year	may differ			
	UNIVERSITY COURSES (8 CREDITS)				
Student Holi	stic Empowerment [SHE]				
Choose one of	course from each cluster				
Cluster	Cluster Title Credits				
Cluster 1	Thinking Matters: Mind and Intellect	2			
Cluster 2	Emotional, Physical and Spiritual Intelligence: Heart, Body and Soul				
Cluster 3	Technology/Artificial Intelligence and Data Analytics: I-Techie				
Cluster 4	Global Issues and Community Sustainability: Making The World 2 A Better Place				

LIST OF COURSES ACCORDING TO SEMESTER (PLANNING OF COURSES) BACHELOR OF SCIENCE IN STATISTICS

	YEAR 1				TOTAL
COMPONENT	SEMESTER 1		SEMESTER 2		CREDITS
	COURSE	CREDIT	COURSE	CREDIT	
University Courses	GLTXXXX	2	GLT ^{XXXX}	2	8
	GIG1012 / GLT1017*	2	GIG1013	2	ð
Core Courses	SIT1002	4	SIM1003	4	- 26
	SIM1001	4	SIT1001	4	
	SIM1002	4	SIT1003	4	
			SIX1015	2	
Elective Courses	Student Holistic Empowerment (SHE) Cluster 1	2			2
TOTAL CREDITS		18		18	36

*only for international students

	YEAR 2				
COMPONENT	SEMESTER 1		SEMESTER 2		TOTAL CREDITS
	COURSE	CREDIT	COURSE	CREDIT	
University Courses	GIG1003	2			2
	SIM2001	4	SIT2008	4	
Core Courses	SIM2002	4	SIT2010	3	31
	SIT2001	4	SIT2009	4	
	SIT2007	3	SIT3015	3	
	SIT2011	2			
Elective Courses	Student Holistic Empowerment (SHE) Cluster 2	2	Student Holistic Empowerment (SHE) Cluster 3	2	8
			Elective Course 1	4	
TOTAL CREDITS		21		20	41

	YEAR 3				
COMPONENT	SEMESTER 1		SEMESTER 2		TOTAL CREDITS
	COURSE	CREDIT	COURSE	CREDIT	
University Courses	gka/gki/gkk/ gkp/gks/gku	2			2
	SIT3005	4	SIT3021	8	
Core Courses	SIT3016	4			19
	SIT3017	3			
	Elective Course 2	4			
Elective Courses	Student Holistic Empowerment (SHE) Cluster 4	2			6
TOTAL CREDITS		19		8	27

	YEAR 4				
COMPONENT	SEMESTER 1		SEMESTER 2		TOTAL CREDITS
	COURSE	CREDIT	COURSE	CREDIT	
Elective Courses	Elective Course 3	4	Elective Course 7	4	
	Elective Course 4	4	Elective Course 8	4	30
	Elective Course 5	4	Elective Course 9	4	
	Elective Course 6	3	Elective Course 10	3	
TOTAL CREDITS		15		15	30