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GIA – GIX ^{xxxx} External F		-	2
	gagement	-	2
	aculty Elective Course	-	2
2. CORE COURSES (73 CREE	DITS)		
(I) FACULTY CORE COU	RSES (8 CREDITS) [TF]		
COURSE CODE	COURSE NAME	PRE-REQUISITE	CREDITS
	on to Science and Technology Studies	-	3
SIX1002 Ethics and		-	2
SIX1004 Statistics		-	3
(II) PROGRAM CORE COL	JRSES (65 CREDITS) [TP]		
COURSE CODE	COURSE NAME	PRE-REQUISITE	CREDITS
LEVEL 1 (24 Credits)			OKEDITO
SIM1001 Basic Mat	hematics	-	4
SIM1002 Calculus I		-	4
SIM1002 Calculus I		SIM1002	4
	on to Computing	-	2
	on to Worksheets	-	2
	tical Methods I	SIM1002	4
	y and Statistics I	SIM1002	4
LEVEL 2 (36 Credits)			
SIM2001 Advanced	Calculus	SIM1003	4
SIM2002 Linear Alg		SIM1001	4
	tical Methods II	SIN1003	4
	d Programming	SIM1002	4
	erational Research	SIM1001 and SIN1002	4
	ferential Equations	SIN1003	4
	f Ordinary Differential Equations	SIN1003	4
SIN2006 Vector An		SIM1003	4
	y and Statistics II	SIT1001	4
LEVEL 3 (5 Credits)			.
SIN3014 Industrial	Training	SIM2002	5
3. ELECTIVE COURSES (35 C	CREDITS)		
	COURSES (at least 28 CREDITS) [EP]		
COURSE CODE	COURSE NAME	PRE-REQUISITE	CREDITS
	ent Mathematic	SIM1002	4
	ion Technique	SIM2001	4
SIN2009 Computer		SIN1001 and SIN2002	4
Introductio	on to Quantum Mechanics with		
SIN3001 Computer		SIN2002	4
SIN3002 Cryptogra		SIN2002 and SIT1001	4
	ional Fluid Dynamics	SIN2004	4
	of Mathematical Models	SIN2005	4
	I Methods and Analysis	SIN2001	4
	n and Inventory Control	SIN2003 or SIN2007	4
SIN3007 Heuristic I		SIN2002	4
	tical Programming	SIN2002	4
	Operational Research	SIN2003	4
	ional Geometry	SIN2002	4

SIN3011 Scientific Computing			SIN2002	4
SIN3012 Mechanics			SIN2006	4
SIN3013 Fourier and Wavelets Anal		ysis	SIN1001 and SIM2002	4
SIN3015 Mathematical Science Proj		ject	SIM2002	4
* Courses C * Refer to th	ELECTIVE COURSES (7 CR Offered by Other Institute/Dep ne Faculty Elective Courses li faculty of Science	artment within the I	Faculty of Science the Institute of Mathematical Science	es but
Institut	e/Department	Course Code	Course Title	Credits
		SIX1006	Malaysian Flora	3
Institute of Biologic	cal Sciences	SIX1006 SIX1007	Malaysian Flora Malaysian Fauna	3
Institute of Biologic	cal Sciences			-
Institute of Biologic		SIX1007	Malaysian Fauna	3
	emistry	SIX1007 SIX1008	Malaysian Fauna Bio Computing	3
Department of Che	emistry blogy	SIX1007 SIX1008 SIX1009	Malaysian Fauna Bio Computing Basic Chemistry	3 2 2

The exact number of elective courses offered in each year may differ. Core courses in Bachelor of Science in Mathematics or Bachelor of Science in Statistics may also be taken as elective courses of department for this program. Only SIQ2003 in Bachelor of Actuarial Science may be taken as an elective course of department for this program. 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***/SIN3***/SIT3*** (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.