BACHELOR OF SCIENCE IN APPLIED GEOLOGY ACADEMIC SESSION 2021/2022 (134 CREDITS)									
UNIVERSITY COURSES (14 CREDITS)									
COURSE CODE	COURSE NAME		CREDIT						
GIG1012 /	Philosophy and Current Issues (local st	tudents) /	2						
GLT1017*	Basic Malay Language (*only for intern	ational students)	_						
GIG1013	Appreciation of Ethics and Civilisations		2						
GIG1003	Basic Entrepreneurship Culture		2						
GKA/GKI/GKK/ GKP/GKS/GKU	Co-Curriculum		4						
GLTxxxx	English Course (subject to MUET band	s)	4						
CORE COURSES (80 C	CREDITS)								
COURSE CODE COURSE NAME PRE-REQUISITE									
LEVEL 1 (22 CREDITS									
SIX1015	Science, Technology and Society		2						
SIX1016	Statistics		3						
SIC1006	Computer Programming for Science	3							
SII1001	Introduction to the Earth	2							
SII1002	Earth Surface Processes	2							
SII1003	Geological Structures and Maps		3						
SII1004	Mineralogy		3						
SII1005	Fundamental of Field Geology		2						
SII1006	Safety and Geological Code of Practice		2						
LEVEL 2 (36 CREDITS)		•						
COURSE CODE	COURSE	PRE-REQUISITE	CREDIT						
SII2002	Applied Geology Field Course	SII1005	8						
SII2003	Structural Geology	SII1003	3						
SII2004	Sedimentology	SIG1002	4						
SII2005	Igneous and Metamorphic Petrology	SII1004	3						
SII2006	Paleontology	SII1001, SII1002	3						
SII2007	Introduction to Geophysics	SII1001, SII1002	3						
SII2008	Geology and Community	SII1002, SII1002	3						
SII2009	Geochemistry	SII1001, SII1004	3						
SII2010	GIS Applications in Geosciences	SII1003	3						
SII2011	Geology Laboratory Analytical Techniques	SII1004	3						

LEVEL 3 (22 CREDITS)		ience Booklet, Academic	36221011 2021					
COURSE CODE	COURSE	PRE-REQUISITE	CREDIT					
SII3009	Mineral Resources	SII1004	3 8					
SII3010	Geology Research Project	SIG2002, SII2011						
SII3011	Geology of Malaysia	SII1001	3					
SII3012	Industrial Attachment	SII2002, SII2011	8					
ELECTIVE COURSES (•							
(I) PROGRAMME ELECTIVE COURSES (32 CREDIT)								
COURSE CODE	COURSE	PRE-REQUISITE	CREDIT					
SII2012	Geological Data Analysis	SIX1016	3					
SII2013	Marine Geology	SII1002	2					
SII2014	Karst Geomorphology and Conservations	SII1002	2					
SII2015	Climate Change and Adaptation	SII1002	3					
SII2016	Engineering Geology	SII1003	3					
SII2017	Earth Water Resources	SII1002	3					
SII2018	Environmental Geology	SII1001	3					
SII3013	Advanced Geophysics	SII2007	3					
SII3014	Geohazards	SII1001	3					
SII3015	Quaternary Geology	SII1002	3					
SII3016	Stratigraphic Methods	SII2004	3					
SII3017	Geology of South East Asia	SII1001	2					
SII3018	Petroleum Geology	SII2004	4					
SII3019	Organic Petrology	SII2004	3					
SII3020	Industrial Minerals	SII3009	2					
SII3021	Tectonics and Earth History	SII2006	2					
SII3022	Mineral and Mining Exploration	SII2009	3					
SII3023	Geological Site Investigation	SII2016	2					
SII3024	Unconventional Oil and Gas Resources	SII2004	3					
SIM1001	Basic Mathematics		4					
SIM1002	Calculus 1		4					
	ERSITY COURSES (8 CREDITS)							
	Empowerment [SHE]							
	rse from each cluster							
Cluster	Cluster Title	Credits						
Cluster 1	Thinking Matters: Mind and Intellect		2					
Cluster 2	Emotional, Physical and Spiritual Intellig	2						
	Heart, Body and Soul							
Cluster 3	Technology/Artificial Intelligence and Data Analytics: I-							
	Techie							
Cluster 4	Global Issues and Community Sustaina	bility:	2					
Making The World a Better Place								

Str LIST OF COURSES ACCORDING TO SEMESTER (PLANNING OF COURSES) BACHELOR OF SCIENCE IN APPLIED GEOLOGY

Year	Component	Semester I			Semester II			
rear		Code	Course	Credit	Code	Course	Credit	
	University Courses	GIG1012/ GLT1017	Philosophy and Current Issues (Local Student)/ Basic Malay Language (only for international students)	2	GKA/GKI/ GKK/ GKP/ GKS/GKU 1001	Co-curriculum	2	
		GIG1013	Appreciation of Ethics and Civilisations	2	GIG1003	Basic Entrepreneurship Culture	2	
		GLTXXXX	English Language	2	GLTXXXX	English Language	2	
	Core Courses	SIX1016	Statistics	3	SIX1015	Science, Technology and Society	2	
4		SII1001	Introduction to the Earth	2	SIC1006	Computer Programming for Science	3	
1		SII1002	Earth Surface Processes	2	SII1004	Mineralogy	3	
		SII1003	Geological Structures and Maps	3	SII1005	Fundamental of Field Geology	2	
					SII1006	Safety and Geological Code of Practice	2	
	Elective Courses		Student Holistic Empowerment (SHE) Cluster 1: Thinking Matters: Mind & Intellect	2				
	Total Credit			18			18	

			Semester I			Semester II		
Year	Component	Code	Course	Credit	Code	Course	Credit	
	University Courses	GKA/GKI/ GKK/ GKP/ GKS/GKU 1001	Co-Curriculum	2				
	Core Courses	SII2002	Applied Geology Field Course	4	SII2002	Applied Geology Field Course	4	
		SII2003	Structural Geology	3	SII2006	Paleontology	3	
		SII2004	Sedimentology	4	SII2008	Environmental Geology	3	
2		SII2005	Igneous and Metamorphic Petrology	3	SII2009	Geochemistry	3	
		SII2007	Introduction to Geophysics	3	SII2010	GIS Applications in Geosciences	3	
					SII2011	Geology Laboratory Analytical Techniques	3	
	Elective courses							
	Total Credit			19			19	

	Component		Semester I			Semester II		
Year		Code	Course	Credit	Code	Course	Credit	
3	University Courses							
	Core Courses	SII3009	Mineral Resources	3	SII3010	Geology Research Project	4	
	00.0 000.000	SII3011	Geology of Malaysia	3				
	Elective courses		Student Holistic Empowerment (SHE) Cluster 2: Emotional & Spiritual Intelligence: Heart & Soul	2		Student Holistic Empowerment (SHE) Cluster 3: Technology/ Artificial Intelligence and Data Analytics: I-technie	2	
			Program Elective	10		Program Elective	12	
	Total Credit			18			18	

		Semester I			Semester II		
Year	Component	Code	Course	Credi t	Code	Course	Cred it
	University Courses						
4	Core Courses	SII301 0	Geology Research Project	4	SII30 12	Industrial Attachment	8
	Elective courses		Student Holistic Empowerment (SHE) Cluster 4: Global Issue and Community Sustainability: Making the World a Better Place	2			
			Program Elective	10			
	Total Credit			16			8
Total Credit Hours		134					