	BACHELOR OF SCIENCE IN ENVIRONM ACADEMIC SESSION 20 (132 CREDITS)		
	OURSES (14 CREDITS)		
COURSE CODE	COURSE NAME		CREDITS
GIG1012 /	Philosophy and Current Issues (local students) /		2
GLT1017*	Basic Malay Language (*only for international student	is)	
GIG1013	Appreciation of Ethics and Civilisations		2
GIG1003	Basic Entrepreneurship Enculturation		2
GKA/ GKI/ GKK/ GKP/ GKS/ GKU 1001	Co-Curriculum		4
GLTxxxx	English Language / Foreign Language (**student who	se native language is English)	4
2. CORE COURSE	ES (80 CREDITS)		
COURSE CODE	COURSE NAME	PRE-REQUISITES	CREDITS
LEVEL 1 (15 Credits	3)		
SIX1015	Science, Technology and Society		2
SIX1016	Statistics		3
SIE1002	Bioethics and Safety		2
SIH1004	Environmental Sustainability		2
SIH1005	Analytical Environmental Chemistry		2
SIO1003	Bioinformatics Concepts	1 1	2
SIO1004	Introduction to Computer Programming in	1 1	2
	Bioinformatics		-
LEVEL 2 (16 Credits		· · · · · · · · · · · · · · · · · · ·	
SIH2007	Principles of Waste Management		3
SIH2015	Soil Science and Community	SIH1005	5
SIH2016	Environmental Monitoring	SIH1004	3
SIH2017	Applied Ecology		3
SIH2018	Research Methods and Scientific Writing		2
LEVEL 3 (19 Credits			
SIH3005	Environmental Impact Assessment	SIH2016	3
SIH3006	Environmental Management System	SIH1004	3
SIH3007	Integrated Waste Management	SIH2007	3
SIH3022	Environmental Management Research Project	SIH2018	8
SIH3023	Introduction to Administrative Management	311120110	2
LEVEL 4 (30 Credits			2
SIH4001	Industrial Training	SIH3022 & SIH3023	30
	JRSES (38 CREDITS)	61113022 & 61113025	50
(I) PROGRAMME EL (30 CREDITS) Choose from all ele COURSE CODE	ECTIVE COURSES or/and MINOR PACKAGE ** ective courses or/and Minor Packages that are offered COURSE NAME	PRE-REQUISITES	CREDITS
SIH2008	Environmental Health and Safety		2
SIH2014	Environmental Forensics	_	2
SIH2019	Environmental Risk Assessment and Management		2
SIH2020	Environmental Governance	SIH1004	3
SIH2021	Key Issues in Climate Change		2
SIH2022	Ecosystem-Based Management		2
SIH2023	Energy Saving Culture		2
SIH2024	Environmental Informatics	SIO1004	2
SIH2025	Renewable Energy Transition and Society		2
SIH2026	Water Management		2
SIH2028	Air Pollution Control		2
SIH2029	Disaster Management		2
SIH2030	Organisms and Environment		2
SIH3009	Slope Eco-engineering Techniques		3
SIH3017	Technology and Management of Hazardous Waste	SIH3007	3
SIH3018	Environmental Microbiology	SIH1004	3
	Tourism and Environment		3
SIH3019	Introduction to Bioremediation	SIH3018	3
		SIH3018	3

SIE2012	Aquatic Ecology		3				
SIE3025	Biodiversity Governance and Conservation		3				
SIO2012	Bioinformatics Data Management SI	O1003	2				
SIO3016	Biological Data Analytics SI	O1004	2				
SIO3026	Sustainable Food Systems		2				
(II) STUDENT HOLIS	(II) STUDENT HOLISTIC EMPOWERMENT (8 CREDITS) [SHE]						
Choose one course f	rom each cluster						
CLUSTER	CLUSTER TITLE	CREDITS					
Cluster 1	Thinking Matters: Mind & Intellect	2					
Cluster 2	Emotional & Spiritual Intelligence: Heart & Soul		2				
	GQX0056 Integrity and Anti-Corruption Course						
Cluster 3	Technology/Artificial Intelligence and Data Analytics: i-Tech		2				
Cluster 4	Global Issue and Community Sustainability: Making the Wo	2					

** Minor package

(1) Students are required to complete a minimum of 18 credits under the same minor package in order to be displayed on the transcript.

transcript.

(2) For further information, student can refer to UMSItS Guide via this link : https://umsitsguide.um.edu.my/

PROGRAMME GOAL

To produce knowledgeable and competent graduates in Environmental Managment.

PROGRAMME LEARNING OUTCOMES

At the end of the B.Sc in Environmental Management Programme, graduates are able to:-

- 1. Acquire and comprehend basic biological principles that contribute to expertise in environmental management.
- 2. Use intellectual skills to find and understand new scientific information that are useful in environmental management for industries.
- 3. Apply technical and design skills to solve environmental problems related to environmental management research and industry.
- 4. Communicate information and ideas clearly and effectively regardless of oral or written, presenting them in the manner that are confident, accurate, coherent and in context.
- 5. Use various forms of information, media and application technology that combine numerical and visual data to support learning.
- 6. Be independent, responsible and show leadership in making decisions to achieve organizational goals.
- 7. Actively engage in lifelong learning in addition to strengthening management and entrepreneurial abilities by emphasizing environmental, social, political, economic and cultural interests.
- 8. Inculcate values, ethics, codes of good practice, regulations and legislation learnt during the study of environmental science and management in the work-place and local community.

SUGGESTED LIST OF COURSES ACCORDING TO SEMESTER, 2023/2024 SESSION (PLANNING OF COURSES)

		YEAR 1				TOTAL
COMPONENT		SEMESTER 1		SEMESTER 2		
		COURSE	CREDIT	COURSE	CREDIT	CREDIT
University Courses		GLTxxxx English Language / Foreign Language**	2	GLTxxxx English Language / Foreign Language**	2	
		GIG1012 / GLT1017* Philosophy and Current Issues / Basic Malay Language*	2	GIG1013 Appreciation of Ethics and Civilisations	2	14
		GKA/GKI/GKK/GKP/ GKS/GKU1001 Co-Curriculum	2	GKA/GKI/GKK/GKP/ GKS/GKU1001 Co-Curriculum	2	
		GIG1003 Basic Entrepreneurship Enculturation	2			
		SIX1015 Science, Technology and Society	2	SIX1016 Statistics	3	-
		SIH1005 Analytical Environmental Chemistry	2	SIE1002 Bioethics and Safety	2	
Core Courses	6	SIO1003 Bioinformatics Concepts	2	SIH1004 Environmental Sustainability	2	15
				SIO1004 Introduction to Computer Programming in Bioinformatics	2	
Elective Courses	Student Holistic	SHE Cluster 1 Thinking Matters: Mind & Intellect	2	SHE Cluster 3 Technology/Artificial Intelligence and Data Analytics: i-Technie	2	
	Empower- ment (SHE)	SHE Cluster 2 Emotional & Spiritual Intelligence: Heart & Soul GQX0056 Integrity and Anti-Corruption	2	SHE Cluster 4 Global Issue and Community Sustainability: Making the World a Better Place	2	
TOTAL CRE	DITS		18		19	37

BACHELOR OF SCIENCE IN ENVIRONMENTAL MANAGEMENT

*only for international students; **student whose native language is English

COMPONENT		YEAR 2				
		SEMESTER 1		SEMESTER 2		TOTAL CREDIT
		COURSE	CREDIT	COURSE	CREDIT	OREDIT
		SIH2007 Principles of Waste Management	3	SIH2016 Environmental Monitoring	3	
Core Courses	;	SIH2015 Soil Science and Community	5	SIH2017 Applied Ecology	3	16
				SIH2018 Research Methods and Scientific Writing	2	
Elective Courses	Program (EP)	SIH2008 Environmental Health and Safety/ SIH2014 Environmental Forensics/ SIH2019 Environmental Risk Assessment and Management/ SIH2021	9	SIH2020 Environmental Governance/ SIH2024 Environmental Informatics/ SIH2025 Renewable Energy Transition and Society/ SIH2028 Air Pollution Control/	9	18

	Key Issues in Climate Change/ SIH2022 Ecosystem-Based Management/ SIH2023 Energy Saving Culture/ SIH2026 Water Management/ SIO2012 Bioinformatics Data Management		SIH2029 Disaster Management/ SIH2030 Organisms and Environment/ SIE2012 Aquatic Ecology		
TOTAL CREDITS		17		17	34

COMPONENT		YEAR 3				
		SEMESTER 1		SEMESTER 2		TOTAL CREDIT
		COURSE	CREDIT	COURSE	CREDIT	OKEDIT
Core Courses		SIH3006 Environmental Management System SIH3007 Integrated Waste Management	3	SIH3005 Environmental Impact Assessment SIH3022 Environmental Management Research Project (P)	3	19
		SIH3022 Environmental Management Research Project (P)	4	SIH3023 Introduction to Administrative Management	2	
Elective Courses	Program (EP)	SIH3009 Slope Eco-engineering Techniques/ SIH3018 Environmental Microbiology/ SIH3027 Green Agriculture/ SIE3025 Biodiversity Governance and Conservation/ SIO3016 Biological Data Analytics	6	SIH3017 Technology and Management of Hazardous Waste/ SIH3019 Tourism and Environment/ SIH3025 Introduction to Bioremediation/ SIH3026 Environmental Well-Being/ SIO3026 Sustainable Food Systems	6	12
TOTAL CREE	DITS		16		15	31

(P) Progressive

	YEAR 4				
COMPONENT	SEMESTER 1		SEMESTER 2		TOTAL CREDIT
	COURSE	CREDIT	COURSE	CREDIT	GREDIT
Core Courses	SIH4001 Industrial Training (P)	15	SIH4001 Industrial Training (P)	15	30
TOTAL CREDITS		15		15	30

(P) Progressive

MINIMUM CREDITS FOR GRADUATION: 132