

Courses in Chemistry Programme

YEAR 1						
Semester 1				MUET (Band)		
Code	Course	Status	Credit	1-2	3	4-6
STK1853	Physical Chemistry	Core	3	/	/	/
STK1201	Practical for Physical Chemistry	Core	1	/	/	/
STK1863	Analytical Chemistry	Core	3	/	/	/
STK1211	Practical for Analytical Chemistry	Core	1	/	/	/
STB1093	Microbiology	Core	3	/	/	/
PPD1041	Soft Skills and Basic Volunteerism	Remedial	1	/	/	/
MPU3192	Appreciation of Ethics and Civilization	MPU	2	/	/	/
MPU3142	Malay Language for Communication 2 *	MPU		/	/	/
MPU3222	Foundation of Entrepreneurship Inculturation	MPU	2	/	/	/
PBI1112	Preparatory English I	Remedial	2	/	-	-
PBI1102	Academic English I	Generic		-	/	-
PBI1092	Academic English II	Generic		-	-	/
Total (Local and International students)				18	18	18

YEAR 1						
Semester 2				MUET (Band)		
Code	Course	Status	Credit	1-2	3	4-6
STK1873	Inorganic Chemistry	Core	3	/	/	/
STK1121	Practical for Inorganic Chemistry	Core	1	/	/	/
STK1883	Statistics and Chemometrics	Core	3	/	/	/
STF1023	Introduction to Ecology	Core	3	/	/	/
XXUxxx3	University Elective Course 1	Elective	3	/	/	/
MPU34x2	Credited Co-curricular	MPU	2	/	/	/
MPU3182	Philosophy and Current Issues **	MPU	2	/	/	/
PBI1072	English for Professional Communication	Generic	2	-	/	-
PBI1082	English for Occupational Purposes	Generic		-	-	/
PBI1122	Preparatory English 2 *	Remedial		/	-	-
Total (Local and International students)				19	19	19

YEAR 2						
Semester 1				MUET (Band)		
Code	Course	Status	Credit	1-2	3	4-6
STK2973	Analytical Techniques	Core	3	/	/	/
STK2893	Kinetics and Thermodynamic Chemistry	Core	3	/	/	/
STK2903	Organic Chemistry	Core	3	/	/	/
STK2911	Practical for Organic Chemistry	Core	1	/	/	/
STK2923	Transition Metals and Organometallic Chemistry	Elective Program	3	/	/	/
STK2933	Coordination Chemistry					
STK2943	Environmental Chemistry	Elective Program	3	/	/	/
STK2953	Environmental Aquatic Chemistry					
PBM2072	Malay Language	Remedial	2	/	/	/
PBI1102	Academic English I	Generic	2	/	-	-
Total (Local and International students)				20	18	18

YEAR 2						
Semester 2				MUET (Band)		
Code	Course	Status	Credit	1-2	3	4-6
STB1083	Biochemistry	Core	3	/	/	/
STK2073	Scientific communication and Research Ethics	Core	3	/	/	/
STK2963	Organic Chemistry of Functional Groups	Core	3	/	/	/
STK2983	Waste Management and Toxicology	Core	3	/	/	/
XXUxxx3	University Elective Course 2	Elective	3	/	/	/
MPU3342	Culture and Ethnicity in Malaysia *	GES	2	/	/	/
PBI1072	English for Professional Communication	Generic	2	/	-	-
STK21063	Frontiers in Chemistry: Catalysis and Photocatalysis	Program Elective	3	/	/	/
STK21073	Frontiers in Chemistry: Green and Sustainable Chemistry					
Total (local students)				20	18	18
Total (International students)				22	20	20

YEAR 3						
Semester 1				MUET (Band)		
Code	Course	Status	Credit	1-2	3	4-6
STF3013	Final Year Project 1	Core	3	/	/	/
STK31003	Terrestrial Natural Product Chemistry	Program Elective	3	/	/	/
STK31013	Marine Natural Product Chemistry					
STK3093	Environmental Management System	Program Elective	3	/	/	/
STK31023	Laboratory Management System					
STK31033	Food Chemistry and Technology	Program Elective	3	/	/	/
STK31043	Food Chemistry and Analysis					
STK31123	Polymer Chemistry	Program Elective	3	/	/	/
STK31133	Materials Chemistry					
XXUxxx3	University Elective Course 3	Elective	3	/	/	/
MPU33x2	National Heritage OR Government and Administration in Malaysia OR Introduction to Organization Behavior OR Integration and Anti-Corruption	MPU	2	/	/	/
Total (Local students)				20	20	20
Total (International students)				18	18	18

YEAR 3						
Semester 2				MUET (Band)		
Code	Course	Status	Credit	1-2	3	4-6
STF3015	Final Year Project 2	Core	5	/	/	/
STK31053	Petroleum Chemistry	Core	3	/	/	/
STK31083	Industrial Inorganic Chemistry	Program Elective	3	/	/	/
STK31093	Industrial Organic Chemistry					
STK31103	Medicinal Chemistry and drug development	Program Elective	3	/	/	/
STK31113	Pharmaceutical chemistry					
STK31143	Forensic Toxicology and Drug Abuse	Program Elective	3	/	/	/
STK31153	Forensic Fire and Arson					
STK31163	Organic Synthesis and Drug Discovery	Program Elective	3	/	//	
STK31173	Organic Synthesis and Functional Materials					
Total (Local and International students)				20	20	20

YEAR 4

Semester 1							MUET (Band)		
Code	Course	Status	Credit	1-2	3	4-6			
STF41612	Industrial Training	Core	12	/	/	/			
Total (Local and International students)				12	12	12			

Summary Total Credit Hour

MUET (Band)	Core	Program Elective	General Studies Course (GES/MPU)	Generic	Elective	Remedial	Total Credit Hours
1-2	66	33	10	6	9	5	129
3-6	66	33	10	6	9	1	125

Notes:

*Courses offered for international students only

**Courses offered only for both local and international students

For more information: please refer page 73 (University Courses); page 75 (Generic English Courses); page 78 (MPU Courses); page 80-82 (Elective Courses)