2.0 Programme Curriculum Structure: Bachelor of Science (Hons) in Applied Chemistry

	SEMESTER 1		
Code	Courses	Cr	G
MPU3122 MPU3142	TITAS (Local) BM Komunikasi 2 (International)	3	NR
MPU3113 MPU3173	Ethnic Relationship (Local) Malaysian Studies 3 (International)	3	NR
PDB1012	Introduction to Oil and Gas	2	UR
FDM1023	Ordinary Differential Equations	3	CS
KXXxxx1	Co Curriculum I	1	UR

Code	SEMESTER 2 Courses	Cr	G
CDB1012	Health, Safety & Environment	2	CS
FDM2063	Probability and Statistics	3	CS
YAB1033	Analytical Chemistry	3	CD
YAB1013	Inorganic Chemistry	3	CD
YAB1022	Chemistry Practical I	2	CD

Code	Courses	Cr	G
MPU 2	One (1) U2 Course	3	NR
LDB1042	Academic Writing	2	UR
KXXxxx1	Co Curriculum II	1	UR
YAB1043	Physical Chemistry I	3	CD
YAB1053	Organic Chemistry I	3	CD
YAB1072	Chemistry Practical II	2	CD
	Credit Hours	14	

	Credit Hours	12	
Code	SEMESTER 4 Courses	Cr	G
MPU 3	One (1) U3 course	3	NR
ZAB2072	Philosophy of Science & Technology	2	CS
YAB1063	Material and Energy Balance	3	CD
YAB2013	Organic Chemistry II	3	CD
YAB2023	Physical Chemistry II	3	CD
	Credit Hours	14	

Code	SEMESTER 5 Courses	Cr	G
HDB2033	Professional Communication Skills	3	UR
YAB2032	Separation Process	2	CD
YAB2073	Quantum Chemistry	3	CD
YAB2063	Analytical Instrumentation	3	CD
YAB2052	Chemistry Practical III	2	CD
	Credit Hours	13	

	SEMESTER 6		
Code	Courses	Cr	G
GDB1033	Management and Organisational Behaviour	3	CS
YAB2042	Science Team Project	2	CD
ZAB1053	Modern Physics	3	CD
YAB4023	Molecular Spectroscopy	3	CD
YAB4033	Organotransition Metal Chemistry	3	CD
	Credit Hours	14	

	SEMESTER 7				NT INDUSTRIAL INTERNSHIP PROC				T INDUSTRIAL INTERNSHIP PRO	GRAN	име
Code MPU 4/	Courses Community Engagement	Cr	G	Code	Courses	Cr		Code	Courses	Cr	G
MPO 4/ HDB1012	Project	2	NR	IDB3037	Student Industrial Training (SIT)	7	CI	IDB3047	Student Industrial Project (SIP)	7	CI
YAB3013	Surface Science and Catalysis	3	CD								
YAB3023	Petrochemical Processes	3	CD								
YAB3033	Hydrocarbon Chemistry	3	CD								
YAB3042	Computational Chemistry	2	CD								
	Credit Hours	13			Credit Hours	7			Credit Hours	7	
Code	SEMESTER 8 Courses	Cr	G	Code	SEMESTER 9 Courses	Cr	G				
GDB3013	Small Business & Entrepreneurship	3	cs	YAB4044	Final Year Project II	4	CD				
/AB4012	Final Year Project I	2	CD	YABxxx3	Core Specialization III	3	CSp				
YABxxx3	Core Specialization I	3	CSp	YABxxx3	Core Specialization IV	3	CSp				
YABxxx3	Core Specialization II	3	CSp								
	Credit Hours	11			Credit Hours	10					

3.0

Choose any of the following sets of Core Specialisation areas (set A, B, or C) for Core Specialisation I, II, III and IV.

A.	Petrochemi Code	istry Course Name	Cr	G
1	YAB4113	Catalysis for Petrochemistry	3	CSp
2	YAB4123	Fundamentals of Reactor System	3	CSp
3	YAB4133	Polymers from Petrochemicals	3	CSp
4	YAB4143	Fine and Speciality Chemical	3	CSp
	Sustainable		Cr	G
No 1	Code YAB4213	Courses Green Chemistry	3	CSp
2	ZAB4213	Renewable Energy	3	CSp
3	YAB4233	Green Processes and Products	3	CSp
4	YAB4243	Sustainable Water Management	3	CSp
C. 1	Nanotechno Code	logy Courses	Cr	G
1	ZAB4113	Nanoscience	3	CSp
2	ZAB4123	Fundamental of Nanotechnology	3	CSp
3	YAB4313	Nanoscale Materials: Synthesis and Applications	3	CSp
4	YAB4323	Solid State Chemistry	3	CSp