



BACHELOR OF SCIENCE (CHEMISTRY) SSCAH 2020/2021

SEMESTER 1			SEMESTER 2		
Code	Name of Courses	cr	Code	Name of Courses	cr
UHS 1022	Philosophy and Current Issues*	2	UHLB 1112	English Communication Skills	2
UHS 1022/ UHMS 1182	Philosophy and Current Issues/Appreciation of Ethics and Civilisations**	2	UHMS 1182	Appreciation of Ethics and Civilisations*	2
SSCC 1014	Principles of Chemistry	4	UHLM 1012	Malay Language for Communication 2**	2
SSCC 1312	Laboratory Occupational Safety and Health	2	UBSS 1032	Introduction to Entrepreneurship	2
SSCC 1703	Inorganic Chemistry	3	SSCC 1413	Chemical Thermodynamics	3
SSCC 1851	Inorganic Chemistry Practical I	1	SSCC 1841	Physical Chemistry Practical I	1
SSCM 1023	Mathematical Methods I	3	SSCC 1603	Organic Chemistry - Functional Groups	3
			SSCC 1821	Organic Chemistry Practical I	1
			SSCM 1033	Mathematical Methods II	3
Total credit hours		15	Total credit hours		17
* Local Student **Foreign Student					
SEMESTER 3			SEMESTER 4		
Code	Name of Courses	cr	Code	Name of Courses	cr
UHIT 2302	Science and Technology Thinking	2	UHLB 2122	Academic Communication Skills	2
SSCC 2613	Organic Chemistry - Biomolecules	3	UHMT 1012	Graduate Success Attributes	2
SSCC 2891	Organic Chemistry Practical II	1	SSCC 2713	Coordination Chemistry	3
SSCC 2453	Chemical Kinetics and Electrochemistry	3	SSCC 2851	Inorganic Chemistry Practical II	1
SSCC 2841	Physical Chemistry Practical II	1	SSCC 2473	Molecular Spectroscopy	3
SSCC 2312	Laboratory Safety and Management	2	SSCC 2243	Principles of Analytical Chemistry	3
SSCM 1103	Statistics	3	SSCC 2861	Analytical Chemistry Practical I	1
Total credit hours		15	Total credit hours		15
SEMESTER 5			SEMESTER 6		
Code	Name of Courses	cr	Code	Name of Courses	cr
UHLB 3132	Professional Communication Skills	2	UHLX 1112	Foreign Language Electives	2
UXXX ***2	Soft Skills elective /Knowledge Enhancement Electives	2	SSCC 3643	Application of Spectroscopy	3



UKQF 2082	Science and Community	2	SSCC 3463	Quantum Chemistry	3
UKQT 3001	Extracurricular Experiential Learning	1	SSCU 3623	Research Methodology and Information Retrieval	3
SSCC 3233	Instrumental Analysis	3			
SSCC 3871	Analytical Chemistry Practical II	1			
SSCC 3323	Principles of Polymer Chemistry	3			
			Elective (Choose 6 credits)		
			SSCC 3533	<i>Applications of Computer in Chemistry</i>	3
			SSCC 3743	<i>Materials Chemistry</i>	3
			SSCC 3493	<i>Surface and Colloid Chemistry</i>	3
			SSCC 3243	<i>Separation Methods</i>	3
			SSCC 3693	<i>Metabolism of Biomolecules</i>	3
Total credit hours		14	Total credit hours		17
SHORT SEMESTER					
Code	Name of Course	cr			
SSCU 3915	Research Training (HW)	5			
Total credit hours		5			
SEMESTER 7			SEMESTER 8		
Code	Name of Courses	cr	Code	Name of Courses	cr
SSCU 4902	Undergraduate Project 1	2	SSCU 4904	Undergraduate Project II	4
Elective (Choose 15 credits)			Elective (Choose 12 credits)		
SSCC 4233	<i>Analytical Electrochemistry</i>	3	SSCC 4263	<i>Thermal Analysis</i>	3
SSCC 4363	<i>Green Chemistry</i>	3	SSCC 4473	<i>Solid State Chemistry</i>	3
SSCC 4443	<i>Chemical Reactions Process</i>	3	SSCC 4653	<i>Organic Synthesis</i>	3
SSCC 4723	<i>Organometallic Chemistry</i>	3	SSCC 4603	<i>Medicinal Chemistry</i>	3
SSCC 4733	<i>Radiochemistry</i>	3	SSCC 4763	<i>Nanochemistry</i>	3
SSCC 4633	<i>Heterocyclic Chemistry</i>	3	SSCC 4773	<i>Inorganic and Organometallic Polymers</i>	3
SSCC 4213	<i>Environmental Chemistry</i>	3	SSCC 4543	<i>Modeling and Simulation</i>	3
			SSCC 4393	<i>Special Topics in Chemistry</i>	3
Total credit hours		17	Total credit hours		16