



BACHELOR OF SCIENCE (INDUSTRIAL CHEMISTRY) SSCCH 2020/2021

SEMESTER 1			SEMESTER 2		
Code	Name of Courses	cr	Code	Name of Courses	cr
UHIS 1022	Philosophy and Current Issues*	2	UHLB 1112	English Communication Skills	2
UHIS 1022/ UHMS1182	Philosophy and Current Issues/Appreciation of Ethics and Civilizations**	2	UHMS1182	Appreciation of Ethics and Civilizations *	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
			SHAD 1033	Principles of Management	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	UKQT 3001	Extra-curricular Experiential Learning	1
SSCC 3233	Instrumental Analysis	3	UKQF2082	Science and Community	2
SSCC 3871	Analytical Chemistry Practical II	1	SSCC 3423	Industrial Chemical Process	3
SSCC 3213	Environmental Chemistry	3	SSCU 3623	Research Methodology and Information Retrieval	3
SHAS 1043	Organizational Behaviors	3			
Elective (Choose 6 credits)					
			SSCC 3643	<i>Application of Spectroscopy</i>	3
			SSCC 3353	<i>Consumer Chemistry</i>	3
			SSCC 3493	<i>Surface and Colloid Chemistry</i>	3
			SSCC 3243	<i>Separation Methods</i>	3
			SSCC 3533	<i>Applications of Computer in Chemistry</i>	3
			SSCC 3463	<i>Quantum Chemistry</i>	3
Total credit hours		14	Total credit hours		17
SHORT SEMESTER					
Code	Name of Course	cr			
SSCU 3905	Industrial 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 4273	<i>Forensic Science</i>	3	SSCC 4753	<i>Catalytic Chemistry</i>	
SSCC 4323	<i>Principles of Polymer Chemistry</i>	3	SSCC 4253	<i>Food Analysis</i>	3
SSCC 4663	<i>Natural Product Chemistry</i>	3	SSCC 4673	<i>Industrial Organic Chemistry</i>	3
SSCC 4483	<i>Corrosion Chemistry</i>	3	SSCC 4303	<i>Oleochemistry</i>	3
SSCC 4683	<i>Biotechnology</i>	3	SSCC 4423	<i>Liquid Crystal</i>	3
SSCC 4793	<i>Inorganic Energy Material</i>	3	SSCC 4383	<i>Special Topic in Industrial Chemistry</i>	3
SSCC 4333	<i>Petrochemistry</i>	3	SSCP 3433	<i>Quality Control</i>	3
SSCC 4293	<i>Radioanalytical Chemistry</i>	3			
SHAC 1023	<i>Cost Accounting</i>	3			
Total credit hours		17	Total credit hours		16