

PROGRAMME SCHEME: PROGRAMME BACHELOR OF SCIENCE IN BIOTECHNOLOGY WITH HONOURS (2020/2021)

FIRST YEAR														
FIRST SEMESTER					SECOND SEMESTER									
CODE	COURSE	CREDIT	L	P	CODE	COURSE	CREDIT	L	P					
BTC3000	Kimia Biofizikal / <i>Biophysical Chemistry</i>	3(2+1)	2	1	BTC3001	Pengenalan kepada Bioteknologi / <i>Introduction to Biotechnology</i>	2(2+0)	2	0					
BCH3003	Kimia Biologi / <i>Biological Chemistry</i>	3(2+1)	2	1	BCH3002	Biokimia Komprehensif II / <i>Comprehensive Biochemistry II</i>	4(3+1)	3	1					
BMY3001	Mikrobiologi / <i>Microbiology</i>	4(4+0)	4	0	BSM3201	Biologi Molekul / <i>Molecular Biology</i>	3(3+0)	3	0					
BCH3001	Biokimia Komprehensif I / <i>Comprehensive Biochemistry I</i>	3(3+0)	3	0	BMY3201	Teknik Asas Mikrobiologi / <i>Basic Microbiology Techniques</i>	2(0+2)	0	2					
SKP3112	Falsafah dan Isu semasa / <i>Philosophy and current issues</i>	2(2+0)	2	0	SKP2101	Kenegaraan Malaysia / <i>Malaysian Nationhood</i>	3(3+0)	3	0					
*SKP3113	*Falsafah dan Isu Semasa Masyarakat Sivil / <i>Philosophy and Current Issues in Civil Society</i>	*3(3+0)	*3	0						*FEM2401	*Politik Malaysia dan Masyarakat / <i>Malaysian Politics and Society</i>	*2(2+0)	*2	0
or *SKP3123	*Penghayatan Etika dan Peradaban di Malaysia / <i>Internalization of Ethics and Civilization in Malaysia</i>													
KOM3403	Pengucapan Awam / <i>Public Oration</i>	3(3+0)	3	0	LPE2301	Interaksi dan Pembentangan Akademik / <i>Academic Interaction and Presentation</i>	3(2+1)	2	1					
CEL2102	<i>Effective Listening and Speaking</i>				XXX1234	Kokurikulum / <i>Co-curriculum</i>	1(0+1)	0	1					
LAX		6pt												
TOTAL		18/*19	16/*17	2	TOTAL		18/*17	13/*12	5					
SECOND YEAR														
FIRST SEMESTER					SECOND SEMESTER									
CODE	COURSE	CREDIT	L	P	CODE	COURSE	CREDIT	L	P					
BTC3201	Teknologi Fermentasi / <i>Fermentation Technology</i>	4(3+1)	3	1	BTC3301	Kejuruteraan Bioproses / <i>Bioprocess Engineering</i>	4(4+0)	4	0					
BTC4001	Biokeselamatan dan Bioetika / <i>Biosafety and Bioethics</i>	2(2+0)	2	0	BTC3101	Teknologi Enzim / <i>Enzyme Technology</i>	4(3+1)	3	1					
BSM3104	Prinsip Kultur Sel dan Tisu / <i>Principles of Cell and Tissue Culture</i>	3(2+1)	2	1	BSM3202	Kejuruteraan Genetik / <i>Genetic Engineering</i>	4(3+1)	3	1					
LPE2501	Penulisan Akademik / <i>Academic Writing</i>	3(2+1)	2	1	BTC3402	Pengurusan dan Penggunaan Sisa / <i>Waste Management and Utilisation</i>	3(2+1)	2	1					
MGM3180	Asas Keusahawanan / <i>Basic Entrepreneurship</i>	3(2+1)	2	1	YYY1234	Kokurikulum / <i>Co-curriculum</i>	1(0+1)	0	1					
PRT2009	Pertanian dan Kehidupan / <i>Agriculture and Life</i>	2(1+1)	1	1	LAX		12 pt							
TOTAL		17	13	4	TOTAL		16	12	4					
THIRD YEAR														
FIRST SEMESTER					SECOND SEMESTER									
CODE	COURSE	CREDIT	L	P	CODE	COURSE	CREDIT	L	P					
BTC3302	Biopemisahan dan Penulenan / <i>Bioseparation and Purification</i>	4(3+1)	3	1	BTC4959A	Disertasi Bachelo / <i>Bachelor Dissertation</i>	2(0+2)	0	2					
BTC4305	Pemodelan dan Pengoptimuman Bioproses / <i>Bioprocess Modelling and Optimization</i>	3(2+1)	2	1	BTC3002	Komersialisasi dan Isu Semasa Bioteknologi / <i>Commercialisation and Current Issues in Biotechnology</i>	2(2+0)	2	0					
BTC4904	Khidmat Pembelajaran dalam Bioteknologi / <i>Service Learning in Biotechnology</i>	1(0+1)	0	1	BTC3305	Rekabentuk Bioproses dan Biopenghasilan / <i>Bioprocessing and Biomanufacturing Design</i>	3(2+1)	2	1					
BGY3701	Biostatistik / <i>Biostatistics</i>	3(2+1)	2	1	SKP3122	Penghayatan Etika dan Peradaban / <i>Internalization of Ethics and Civilization</i>	2(2+0)	2	0					
					*LPM2100	Bahasa Melayu Komunikasi / <i>Malay Language Communication</i>								
BTCXXX	Elektif Pengkhususan / <i>Specialization Elective</i>	8	8		BSM4301	Bioinformatik / <i>Bioinformatics</i>	3(2+1)	2	1					
LAX		12 pt			BTCXXX	Elektif Pengkhususan / <i>Specialization Elective</i>	4	4						
					CEL 2105/ 2106/2107									
TOTAL		19	15	4	TOTAL		16	12	4					
FINAL YEAR														
FIRST SEMESTER					SECOND SEMESTER									

CODE	COURSE	CREDIT	L	P	CODE	COURSE	CREDIT	L	P
BTC4959B	Disertasi Bachelo / <i>Bachelor Dissertation</i>	4(0+4)	0	4	BTC4901	Latihan Industri / <i>Industrial Training</i>	6(0+6)	0	6
BTC4991	Seminar / <i>Seminar</i>	1(0+1)	0	1					
AAA1234	Bahasa Global / <i>Global Language</i>	3(2+1)	2	1					
BTCXXX	Elektif Pengkhususan / <i>Specialization Elective</i>	8	8						
LAX		6 pt							
	TOTAL	16	10	6		TOTAL	6	0	6
*International student									