COURSE MENU

YEAR 1: SEMESTER 1			
Code	**Course**	**Credit**	**Pre-requisite**
SECI1013	Discrete Structure	3	
SECJ1013	Programming Technique I	3	
SECR1013	Digital Logic	3	
SCSP1513	Technology & Information System	3	
UHAK1012	Graduate Success Attributes	2	
UHAS1172	*Malaysia Dynamic	2	
UHAK1022	**Malaysian Studies 3		
UHIT2302	*Thought of Science and Technology	2	
UHLM1012	**Malaysia Language for Communication		
	TOTAL CREDIT	18	
	CUMULATIVE CREDITS	18	

* For Malaysian students
** For International students

YEAR 1: SEMESTER 2			
Code	**Course**	**Credit**	**Pre-requisite**
SECI1113	Computational Mathematics	3	
SECI1143	Probability & Statistical Data Analysis	3	
SECJ1023	Programming Technique II	3	SECJ1013
SECR1033	Computer Organization and Architecture	3	SECR1013
SEBB4173	Cellular and Molecular Biology for Bioinformatics	3	
UHLB1112	English Communication Skills	2	
	TOTAL CREDIT	17	
	CUMULATIVE CREDITS	35	

YEAR 2: SEMESTER 1			
Code	**Course**	**Credit**	**Pre-requisite**
SECD2523	Database	3	
SECD2613	System Analysis and Design	3	
SECJ2013	Data Structure and Algorithm	3	SECJ1013 SECJ1023
SECR2213	Network Communications	3	
SECV2113	Human Computer Interaction	3	
UKQXxxx2	Co-curriculum	2	
	TOTAL CREDIT	17	
	CUMULATIVE CREDITS	52	

YEAR 2: SEMESTER 2

Code	Course	Credit	Pre-requisite
SECJ2203	Software Engineering	3	
SECV2223	Web Programming	3	
SECR2043	Operating Systems	3	SECR1033
SECJ2154	Object Oriented Programming	4	SECJ1023
UHLB2122	Academic Communication Skills	2	
Elective Courses - Choose 1 (3 Credits)			
SECB2103	Bioinformatics I	3	
SECD2623	Database Programming		
	TOTAL CREDIT	18	
	CUMULATIVE CREDITS	70	

YEAR 3: SEMESTER 1

Code	Course	Credit	Pre-requisite
UHLB3132	Professional Communication Skill	2	
ULAx 1122	Foreign Language Elective	2	
Elective Courses - Choose 4 (13 Credits)			
SECJ3104	Applications Development	4	
SECJ3553	Artificial Intelligence	3	
SECB3203	Programming for Bioinformatics	3	
SECB3032	Bioinformatics II	3	
SEBB4203	Protein Biomolecules		
	TOTAL CREDIT	17	
	CUMULATIVE CREDITS	87	

YEAR 3: SEMESTER 2

Code	Course	Credit	Pre-requisite
SECB3032	Bioinformatics Project I	2	SECJ3104
SECJ3203	Theory of Computer Science	3	SECI1013 SECJ2013
UHMS1182	*Penghayatan Etika dan Peradaban	2	
UICL2302	**The Thought of Sciences and Technology		
UKQE3001	Extracurricular Experiential Learning (ExCEL)	1	
Elective Courses - Choose 3 (9 Credits)			
SECB3213	Bioinformatics Database	3	
SECB3133	Computational Biology I	3	
SEBB4193	Gene and Protein Technology	3	
SECJ3303	Internet Programming		
	TOTAL CREDIT	17	
	CUMULATIVE CREDITS	104	

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YEAR 4: SEMESTER 1			
Code	Course	Credit	Pre-requisite
SECB4118	Industrial Training (HW)	8	92 credits CGPA >= 2.0
SECB4114	Industrial Training Report	4	
	TOTAL CREDIT	12	
	CUMULATIVE CREDITS	116	

YEAR 4: SEMESTER 2			
Code	Course	Credit	Pre-requisite
SECB4134	Bioinformatics Project II	4	SECB3032
SECD3761	Technopreneurship Seminar	1	
UHAK1032	Introduction to Entrepreneurship	2	
UHIS1022	*Philosophy and Current Issues	2	
UHIS1022	**Philosophy and Current Issues		
UHMS1182	**Penghayatan Etika dan Peradaban		
Elective Courses - Choose 2 (6 Credits)			
SECB3223	Computational Biology II	3	
SECB4243	Special Topics in Bioinformatics	3	
SECB4213	Bioinformatics Visualization	3	
SECB4313	Bioinformatics Modeling and Simulation	3	
	TOTAL CREDIT	15	
	CUMULATIVE CREDITS	131	

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