

Bachelor of Computer Science (Bioinformatics)

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	

Bachelor of Computer Science (Bioinformatics)

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	
<i>Elective Courses - Choose 1 (3 Credits)</i>			
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	
<i>Elective Courses - Choose 4 (13 Credits)</i>			
SECJ3104	Applications Development	4	
SECJ3553	Artificial Intelligence	3	
SECB3203	Programming for Bioinformatics		
SECB3032	Bioinformatics II	3	
SEBB4203	Protein Biomolecules	3	
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	
<i>Elective Courses - Choose 3 (9 Credits)</i>			
SECB3213	Bioinformatics Database	3	
SECB3133	Computational Biology I	3	
SEBB4193	Gene and Protein Technology	3	
SECJ3303	Internet Programming		
TOTAL CREDIT		17	
CUMULATIVE CREDITS		104	

* For Malaysian students

** For International students

Bachelor of Computer Science (Bioinformatics)

YEAR 4: SEMESTER 1			
Code	Course	Credit	Pre-requisite
SECB4118	Industrial Training (HW)	8	92 credits CGPA \geq 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	
UHS1022	*Philosophy and Current Issues	2	
UHS1022	**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	

* For Malaysian students

** For International students (choose ONE only)

Bachelor of Computer Science (Data Engineering)

COURSE MENU

YEAR 1: SEMESTER 1				
	CODE	COURSE NAME	CREDIT	PRE-REQUISITE
	SECP1513	Technology and Information Systems (WBL)	3	
	SECJ1013	Programming Technique I	3	
	SECR1013	Digital Logic	3	
	SECI1013	Discrete Structure	3	
	UHLX1112	<i>Elective Foreign Language</i>	2	
	Local Students			
	UHIT2302	Thought of Science & Technology	2	
	UHMS1172	Malaysia Dynamic	2	
	International Students			
	UHMS1022	Malaysia Studies 3	2	
	UHLM1012	Bahasa Melayu Komunikasi 2	2	
TOTAL CREDIT			18	
CUMULATIVE CREDIT			18	

YEAR1: SEMESTER 2				
	CODE	COURSE NAME	CREDIT	PRE-REQUISITE
	SECJ1023	Programming Technique II	3	SCSJ1013
	SECV2113	Human Computer Interaction	3	
	SECI2143	Probability & Statistical Data Analysis	3	
	SECR2033	Computer Organization & Architecture	3	SCSR1013
	UHMT1012	Graduate Success Attribute	2	
	UHLB1112	English Communication Skills	2	
	UKQXxxx2	<i>Co-Curriculum</i>	2	
TOTAL CREDIT			18	
CUMULATIVE CREDIT			36	

YEAR 2: SEMESTER 1				
	CODE	COURSE NAME	CREDIT	PRE-REQUISITE
	SECP2523	Database (WBL)	3	
	SECP2613	System Analysis and Design (WBL)	3	
	SECJ2013	Data Structure and Algorithm	3	SCSJ1013 SCSJ1023
	SECR2213	Network Communication	3	
	UHLB2122	Academic Communication Skills	2	
	Elective Courses - Choose 1 (3 credits)			
	SECP2723	System Development Technology (WBL)	3	
	SECP2733	Multimedia Data Modeling (WBL)	3	
TOTAL CREDIT			17	
CUMULATIVE CREDIT			53	

YEAR 2: SEMESTER 2				
	CODE	COURSE NAME	CREDIT	PRE-REQUISITE
	SECJ2154	Object-Oriented Programming	4	SCSJ1023

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	SECR2043	Operating System	3	SCSJ1033
	SECD3761	Technopreneurship Seminar (WBL)	1	
	UBSS1032	Introduction to Entrepreneurship	2	
	UHLB3132	Professional Communication Skills	2	
	Local Students			
	UHS1022	Falsafah & Isu Semasa	2	
	International Students			
	UHIT2302	Thought of Science & Technology	2	
	Elective Courses – Choose 1 (3 credits)			
	SECP2633	Information Retrieval	3	
	SECP2753	Data Mining	3	
	TOTAL CREDIT		17	
	CUMULATIVE CREDIT		70	

YEAR 3: SEMESTER 1				
	CODE	COURSE NAME	CREDIT	
	SECJ3553	Artificial Intelligence	3	
	UHMS1182	Penghayatan Etika & Peradaban	2	
	UKQT3001	Extra Curricular Experiential Learning	1	
	Elective Courses – Choose 4 (12 credits)			
	SECP3133	High Performance Data Processing	3	
	SECP3213	Business Intelligence	3	
	SECP3623	Database Programming	3	
	SECP3713	Database Administration	3	
	SECP3223	Data Analytic Programming	3	
	TOTAL CREDIT		18	
	CUMULATIVE CREDIT		88	

YEAR 3: SEMESTER 2				
	CODE	COURSE NAME	CREDIT	PRE-REQUISITE
	SECP3204	Software Engineering (WBL)	4	
	Elective Courses – Choose 3 (13 credits)			
	SECP3744	Enterprise Systems Design and Modeling (WBL)	4	
	SECP3843	Special Topic in Data Engineering (WBL)	3	
	SECP3823	Knowledge Management Systems (WBL)		
	SECP3106	Application Development (WBL)		
	SECP3416	Management Information Systems (WBL)	6	
	TOTAL CREDIT		17	
	CUMULATIVE CREDIT		105	

YEAR 4: SEMESTER 1				
	CODE	COURSE NAME	CREDIT	PRE-REQUISITE
	SECP4114	Professional Development	4	105 credits
	SECP4124	Professional Practice	4	CGPA >= 2.0

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	SECP4134	Professional Development and Practice Report	4	
	SECP4112	Initial Industry Project Proposal	2	
TOTAL CREDIT			14	
CUMULATIVE CREDIT			119	

YEAR 4: SEMESTER 2				
	CODE	COURSE NAME	CREDIT	PRE-REQUISITE
	SECP4223	Industrial Integrated Project Proposal	3	
	SECP4235	Industrial Integrated Project Development	5	
	SECP4234	Industrial Integrated Project Report	4	
TOTAL CREDIT			12	
CUMULATIVE CREDIT			131	

COURSE MENU

YEAR 1: SEMESTER 1			
Code	Course	Credit	Pre-requisite
SECI1013	Discrete Structure	3	
SECJ1013	Programming Technique I	3	
SECR1013	Digital Logic	3	
SECP1513	Technology & Information System	3	
UHMT1012	Graduate Success Attributes	2	
Malaysian Students			
UHIT2302	The Thought of Sciences and Technology	2	
UHMS1172	Malaysia Dynamic	2	
International Students			
UHLM1012	Malaysia Language for Communication	2	
UHMS1022	Malaysian Studies 3	2	
	TOTAL CREDIT	18	
	CUMULATIVE CREDITS	18	

YEAR 1: SEMESTER 2			
Code	Course	Credit	Pre-requisite
SECV1113	Mathematics for Computer Graphics	3	
SECI1143	Probability & Statistical Data Analysis	3	
SECJ1023	Programming Technique II	3	SCSJ1013
SECR1033	Computer Organisation and Architecture	3	SCSR1013
UHLB1122	English Communication Skills	2	
Malaysian Students			
UHS1022	Falsafah dan Isu Semasa	2	
International Students			
UHIT2302	The Thought of Sciences and Technology	2	
UHS1022	Falsafah dan Isu Semasa	2	
UHMS1182	Penghayatan Etika dan Peradaban		
	TOTAL CREDIT	16/18	
	CUMULATIVE CREDITS	34/36	

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	
UKQF2xx2	Service Learning Co-curriculum Elective	2	
	TOTAL CREDIT	17	
	CUMULATIVE CREDITS	51	

Bachelor of Computer Science (Graphics and Multimedia Software) with Honors

YEAR 2: SEMESTER 2			
Code	Course	Credit	Pre-requisite
SECJ2203	Software Engineering	3	
SECV2223	Web Programming	3	
SECR2043	Operating Systems	3	SECJ1033
SECJ2154	Object Oriented Programming	4	SECJ1023
UHLB2122	Academic Communication Skills	2	
<i>Elective Courses - Choose 1 (3 Credits)</i>			
SECV2213	Fundamental of Computer Graphics	3	SECV1113 SECJ1023
SECJ2363	Software Project Management	3	
	TOTAL CREDIT	18	
	CUMULATIVE CREDITS	69	

YEAR 3: SEMESTER 1			
Code	Course	Credit	Pre-requisite
UHLB3132	Professional Communication Skills	2	
UHLx 1122	Foreign Language Elective	2	
UKQE 3001	Extracurricular Experiential Learning	1	
<i>Elective Courses - Choose 4 (13 Credits)</i>			
SECV3104	Applications Development	4	
SECJ3553	Artificial Intelligence	3	SECJ2013
SECV3113	Geometric Modelling	3	SECV2213
SECV3213	Fundamental of Image Processing	3	
SECJ3263	Mobile Application Programming	3	SECJ2154
	TOTAL CREDIT	18	
	CUMULATIVE CREDITS	87	

YEAR 3: SEMESTER 2			
Code	Course	Credit	Pre-requisite
SECV3032	Graphics and Multimedia Software Project I	2	SECV3104
SECJ3203	Theory of Computer Science	3	SECI1013 SECJ2013
<i>Elective Courses - Choose 4 (12 Credits)</i>			
SECV3223	Multimedia Data Processing	3	SECJ1023
SECJ3563	Computational Intelligence	3	SECJ3553
SECV3263	Multimedia Web Programming	3	
SECV3233	Data Visualisation	3	
SECV3123	Real-time Computer Graphics	3	SECV2213
	TOTAL CREDIT	17	
	CUMULATIVE CREDITS	104	

Bachelor of Computer Science (Graphics and Multimedia Software) with Honors

YEAR 4: SEMESTER 1			
Code	Course	Credit	Pre-requisite
SECJ4118	Industrial Training (HW)	8	92 credits CGPA >= 2.0
SECJ4114	Industrial Training Report	4	
	TOTAL CREDIT	12	
	CUMULATIVE CREDITS	116	

YEAR 4: SEMESTER 2			
Code	Course	Credit	Pre-requisite
SECV4134	Graphics and Multimedia Software Project II	4	SECV3032
SECD3761	Technopreneurship Seminar	1	
UBSS1032	Introduction to Entrepreneurship	2	
<i>Elective Courses - Choose 2 (6 Credits)</i>			
SECV4213	Computer Games Development	3	SECJ1013
SECV4233	Advanced Computer Graphics	3	SECV2213
SECV4273	Introduction to Speech Recognition	3	SECJ1023
Malaysian Students			
UHMS1182	Penghayatan Etika dan Peradaban	2	
	TOTAL CREDIT	15/13	
	CUMULATIVE CREDITS	131	

Bachelor of Computer Science (Networks and Security) with Honours

COURSE MENU

YEAR 1 (SEPTEMBER)			
Code	Course	Credit	Pre-requisite
SECI1013	Discrete Structure	3	
SECJ1013	Programming Technique I	3	
SECP1513	Technology & Information System	3	
SECR1013	Digital Logic	3	
UHAK1012	Graduate Success Attributes	2	
MALAYSIAN STUDENTS			
UHMS1172	Malaysia Dynamic	2	
UHIT2302	Science and Technology Thinking	2	
INTERNATIONAL STUDENTS			
UHLM1012	Malaysia Language for Communication 2	2	
UHMS1022	Malaysian Studies 3	2	
TOTAL CREDITS		18	
CUMULATIVE CREDITS		18	

YEAR 1 (FEBRUARY)			
Code	Course	Credit	Pre-requisite
SECI1113	Computational Mathematics	3	
SECJ1023	Programming Technique II	3	SECJ1013
SECI2143	Probability & Statistical Data Analysis	3	
SECR2033	Computer Organisation and Architecture	3	SECR1013
SECV2113	Human Computer Interaction	3	
UHLB1112	English Communication Skills*	2	
TOTAL CREDITS		17	
CUMULATIVE CREDITS		35	

Notes: Students with minimum score of IELTS Band 5.5, TOEFL 525, TOEFL iBT 60, CEFR B2 and MUET Band 4 can apply for credit exemption for UHLB1112.

Bachelor of Computer Science (Networks and Security) with Honours

YEAR 2 (SEPTEMBER)			
Code	Course	Credit	Pre-requisite
SECR1213	Network Communications (CCNA1)	3	SECR1013
SECD2523	Database	3	
SECD2613	System Analysis and Design	3	
SECJ2013	Data Structure and Algorithm	3	SECJ1023
SECR2043	Operating Systems	3	
UKQF2xx2	Service Learning Co-curriculum Elective	2	
TOTAL CREDITS		17	
CUMULATIVE CREDITS		52	

YEAR 2 (FEBRUARY)			
Code	Course	Credit	Pre-requisite
SECV1223	Web Programming	3	SECD2523
SECJ2154	Object Oriented Programming	4	SECJ1023
SECJ2203	Software Engineering	3	
SECR2242	Computer Networks (CCNA2)	2	SECR1213
SECR2941	Computer Networks Lab	1	SECR1213
SECR3413	Computer Security	3	SECR2043
UHLB2122	Academic Communication Skills	2	UHLB1112
TOTAL CREDITS		18	
CUMULATIVE CREDITS		70	

YEAR 3 (SEPTEMBER)			
Code	Course	Credit	Pre-requisite
SECJ3553	Artificial Intelligence	3	SECJ2013
SECR3104	Applications Development	4	SE, DB, Web, CS
SECR3242	Internetworking Technology (CCNA3 & 4)	2	SECR2242
SECR3941	Internetworking Technology Lab	1	SECR2941
SECR3443	Introduction to Cryptography	3	SECR3413
UHLB3132	Professional Communication Skills	2	UHLB2122
UHLx1112	Foreign Language Elective	2	
UKQT3001	Extracurricular Experiential Learning	1	
TOTAL CREDITS		18	
CUMULATIVE CREDITS		88	

YEAR 3 (FEBRUARY)			
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Bachelor of Computer Science (Networks and Security) with Honours

Code	Course	Credit	Pre-requisite
SECR3032	Computer Network & Security Project I	2	SECR3104
SECJ3203	Theory of Computer Science	3	SECI1013
SECD3761	Technopreneurship Seminar	1	
UBSS1032	Introduction to Entrepreneurship	2	
SECRxxx3	SECR Elective 1	3	
SECRxxx3	SECR Elective 2	3	
MALAYSIAN STUDENTS			
UHS1012	Falsafah dan Isu Semasa	2	
UHMS1182	Penghayatan Etika dan Peradaban	2	
INTERNATIONAL STUDENTS			
UHS1012	Falsafah dan Isu Semasa	2	
UHMS1182	Penghayatan Etika dan Peradaban		
UHIT2302	Science and Technology Thinking	2	
TOTAL CREDITS		18	
CUMULATIVE CREDITS		106	

YEAR 4 (SEPTEMBER)			
Code	Course	Credit	Pre-requisite
SECR4114	Industrial Training Report	4	92 credits CGPA \geq 2.0
SECR4118	Industrial Training (HW)	8	
TOTAL CREDITS		12	
CUMULATIVE CREDITS		118	

YEAR 4 (FEBRUARY)			
Code	Course	Credit	Pre-requisite
SECR4134	Computer Network & Security Project II	4	SECR3032
SECRxxx3	SECR Elective 3	3	
SECRxxx3	SECR Elective 4	3	
SECRxxx3	SECR Elective 5	3	
TOTAL CREDITS		13	
CUMULATIVE CREDITS		131	

Bachelor of Computer Science (Networks and Security) with Honours

SECR Elective Courses (CHOOSE 5)			
Code	Course	Credit	Pre-requisite
SECR3223	High Performance & Parallel Computing	3	SECJ1023
SECR3253	Network Programming	3	SECJ1013
SECR3263	Wireless Sensor Network	3	SECR2242
SECR4283	Network Analysis & Design Simulation	3	SECR2242
SECR4443	Penetration Testing	3	SECR2033
SECR4453	Network Security	3	SECR2242
SCSR4483	Security Management	3	SECR3443
SECR4483	Secure Programming	3	SECR3443
SECR4493	Computer Forensic	3	SECR3413
SECR4973	Special Topics on Computer Network & Security	3	

UTM PROFESSIONAL SKILLS CERTIFICATE (PSC)

Students are required to enrol and pass 5 certificate programmes offered by the Centres of Excellence in the University and the School of Professional and Continuing Education (SPACE) offered in the weekend throughout the semester.

1. How to Get Yourself Employed (HTGYE)
2. ISO 9001: 2008 Quality Management System Requirement (ISO)
3. Occupational Safety and Health Awareness (OSHA)
4. How to Manage Your Personal Finance (HTMYPF)
5. Test of English Communication Skills for Graduating Students (TECS):
 - (i) TECS 1001 (Paper I – Oral Interaction)
 - (ii) TECS 1002 (Paper II - Writing)

COURSE MENU

YEAR 1: SEMESTER 1			
Code	Course	Credit	Pre-requisite
SECI1013	Discrete Structure	3	
SECJ1013	Programming Technique I	3	
SECR1013	Digital Logic	3	
SECP1513	Technology & Information System	3	
UHMT1012	Graduate Success Attributes	2	
Malaysian Students			
UHIT2302	The Thought of Sciences and Technology	2	
UHMS1172	Malaysia Dynamic	2	
International Students			
UHLM1012	Malaysia Language for Communication	2	
UHMS1022	Malaysian Studies 3	2	
	TOTAL CREDIT	18	
	CUMULATIVE CREDITS	18	

YEAR 1: SEMESTER 2			
Code	Course	Credit	Pre-requisite
SECI1113	Computational Mathematics	3	
SECI1143	Probability & Statistical Data Analysis	3	
SECJ1023	Programming Technique II	3	SCSJ1013
SECR1033	Computer Organisation and Architecture	3	SCSR1013
UHLB1122	English Communication Skills	2	
Malaysian Students			
UHS1022	Falsafah dan Isu Semasa	2	
International Students			
UHIT2302	The Thought of Sciences and Technology	2	
UHS1022	Falsafah dan Isu Semasa	2	
UHMS1182	Penghayatan Etika dan Peradaban		
	TOTAL CREDIT	16/18	
	CUMULATIVE CREDITS	34/36	

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	
UKQF2xx2	Service Learning Co-curriculum Elective	2	
	TOTAL CREDIT	17	
	CUMULATIVE CREDITS	51	

Bachelor of Computer Science (Software Engineering) with Honors

YEAR 2: SEMESTER 2			
Code	Course	Credit	Pre-requisite
SECJ2203	Software Engineering	3	
SECV2223	Web Programming	3	
SECR2043	Operating Systems	3	SECJ1033
SECJ2154	Object Oriented Programming	4	SECJ1023
UHLB2122	Academic Communication Skills	2	
<i>Elective Courses - Choose 1 (3 Credits)</i>			
SECJ2253	Requirements Engineering & Software Modelling	3	SECJ2203
SECJ2363	Software Project Management	3	
	TOTAL CREDIT	18	
	CUMULATIVE CREDITS	69	

YEAR 3: SEMESTER 1			
Code	Course	Credit	Pre-requisite
UHLB3132	Professional Communication Skills	2	
UHLx 1122	Foreign Language Elective	2	
UKQE 3001	Extracurricular Experiential Learning	1	
<i>Elective Courses - Choose 4 (13 Credits)</i>			
SECJ3104	Applications Development	4	
SECJ3553	Artificial Intelligence	3	SECJ2013
SECJ3303	Internet Programming	3	SECJ2154 SECV2223
SECJ3323	Software Design & Architecture	3	SECJ2203
SECJ3603	Knowledge-Based & Expert Systems	3	SECJ3533
	TOTAL CREDIT	18	
	CUMULATIVE CREDITS	87	

YEAR 3: SEMESTER 2			
Code	Course	Credit	Pre-requisite
SECJ3032	Software Engineering Project I	2	SECJ3104
SECJ3203	Theory of Computer Science	3	SECJ1013 SECJ2013
<i>Elective Courses - Choose 4 (12 Credits)</i>			
SECJ3343	Software Quality Assurance	3	
SECJ3563	Computational Intelligence	3	SECJ3553
SECJ3623	Mobile Application Programming	3	SECJ2154
SECJ3403	Special Topic in Software Engineering	3	
SECJ3483	Web Technology	3	SECJ2154 SECV2223
	TOTAL CREDIT	17	
	CUMULATIVE CREDITS	104	

Bachelor of Computer Science (Software Engineering) with Honors

YEAR 4: SEMESTER 1			
Code	Course	Credit	Pre-requisite
SECJ4118	Industrial Training (HW)	8	92 credits CGPA >= 2.0
SECJ4114	Industrial Training Report	4	
	TOTAL CREDIT	12	
	CUMULATIVE CREDITS	116	

YEAR 4: SEMESTER 2			
Code	Course	Credit	Pre-requisite
SECJ4134	Software Engineering Project II	4	SECJ3032
SECD3761	Technopreneurship Seminar	1	
UBSS1032	Introduction to Entrepreneurship	2	
<i>Elective Courses - Choose 2 (6 Credits)</i>			
SECJ4383	Software Construction	3	SECJ2203
SECJ4423	Real-Time Software Engineering	3	SECJ2203
SECJ4463	Agent-Oriented Software Engineering	3	SECJ2203 SECJ2154
Malaysian Students			
UHMS1182	Penghayatan Etika dan Peradaban	2	
	TOTAL CREDIT	15/13	
	CUMULATIVE CREDITS	131	