APPENDIX L: VIEW CURRENT CURRICULUM FOR BACHELOR OF COMPUTER SCIENCE AND BACHELOR OF INFORMATION TECHNOLOGY

TYPES OF COURSES				COURSE CODE	COURSES	CREDIT	Comments	Coursework			Theory			Practical in lab		Teory Applic'n	Sysm Devnt	Analytical Thinking	Java	AI	Operg Sysm	Oracle	Real world activities	Project Mgt	Object Oriented Programming / Models	PHP	MySQL	Information Accuracy	XML Web Services	XHTML	DHTML	Java Script	CSS	Digital video / images	Adobe photoshop Premiere	3D object Modeling
UC	CC	EP1	EP2					Test / Quiz	Tut/ Assgn/ Projt	Lab test	(Basic)	(Inter-mediate)	(Adv-ance)	Yes	No																					
x				GXEX1410 / GXEX1413	TITAS / Intro to Malaysia (International student only)	2	University Courses				2					2																					
x				GXEX1411	Ethnic Relations (Mlyn student)	2	University Courses				2					2																					
x				GXEX1401	Information skills	1	University Courses				1					1																					
x				GXEX1412	Fundamental of Entrepreneurship Culture	2	University Courses				2					2																					
x				WXES2112	Thinking and Communication Skills	3	University Courses				3					3																					
x					English for Communication I	3	University Courses				3					3																					
x					English for Communication II	3	University Courses				3					3																					
x					Co-Curriculum	2	University Courses				2					2																					
						18																														
	x			WXES1112	Computing Mathematics I	3	Discrete Maths		50%			3				3		3																		
	x			WXES1109	Computer Systems & Organization	3	Intro to Computer System & organization		50%		3					3		3																			
	x			WXES1116	Programming I	5	Fundamental Programming		50%		5			5			5	5	2.5						2.5												
	x			WXES1117	Data Structure (#WXES1116)	5	Introduction to Data Structure		50%		5			5		5		5	2.5						2.5												
	x			WXES2113	Operating System	4	Into to Operating Systems		50%			4				4					4																
	x			WXES2114	Database	5	Basic concepts of DB		50%			5				5		5				5															
	x			WMES2111	Open Source Programming	3	Discussion on open source		50%			3		3			3	3								1.5	1.5									
	x			WMES2112	System Analysis, Modeling and Design	4	Computer based SAD		50%			4				4		4							4												
	x			WMES3106	Information Control and Security	3	Information Security & Risk Management		50%			3				3		3					1.5					1.5									
	x			WRET3105	Data Communication and Networking	3						3				3		3																			
	x			WRET2110	Interaction Design	3						3				3																					
	x			WMES2109	Organisational Theory	3	Issues in managing IS		50%			3				3		3																			
	x			WMES3108	IT Project Management	3							3				3	3																			
	x			WXES2193	Industrial Training *	12	Industrial Trainning = 2-3 subjects		100%				12				12	12																			
	x			WXES3183	Foundation For Academic Project Skills**	3	Research activities		100%			3					3	3																			
	x			WPET3182	Management Academic Project 2	5	Design, develop, test and report system		100%				5			5		5																			
						67																														
		x		WMET1104	Service Engineering & Management	3	Service management thinking		50%			3				3		3																			
		x		WMET1105	Information Technology (IT) Services Integration	3	IT service concepts (service support & service delivery)		50%			3				3		3					1.5	1.5													
		x		WMET1108	Information Technology (IT) And Service Economy	3	IT & service economy		50%			3				3		3					1.5	1.5													
		x		WMET2104	Stochastic Methods Of System Analysis	3	Stochastic analytic method pf system analysis		50%			3				3		3						1.5					1.5								
		x		WMET2111	Information Service Oriented Architecture	3	Service oriented architecture		50%			3				3		3																			
		x		WMET2112	Information Technology (It) System Architecture	3	IT system architecture design		50%			3				3		3	3																		
		x		WMET3109	Autonomic Computing	3	Autonomic computing		50%			3				3		3																			
		x		WMET3110	Information Law and Policy	3	Information law and policy		50%			3				3																					
		x		WMES2271	Database Administration (#WXES2103)	5	Database management		50%			5		5			5					5															
						29 hours																														
			x	WMES3104	Accounting Management System	3	Intro to Accounting Info. System		50%			3				3		3																			
			x	WMES3302	Decision Support System	3	Decision making process		50%			3																									
			x	WMES3314	Electronic Commerce	3	Implementing E-commerce		50%			3					3	3																			
			x	WMES3318	Knowledge Management	3	Discuss on Knowledge Managemen		50%			3																									
			x	WMES3320	Fundamentals Of Data Mining And Warehousing	3	Discuss on data mining		50%			3																									
			x	WMES3107	Information System Auditing	3	Auditing system development		50%			3						3						1.5				1.5									
			x	WKES2107	Human Computer Interaction	4	HCI fundamentals		50%			3						3																			
			x	WRET1105	Multimedia Application Development	3	Digital images and graphics		70%			3		3			3	3								0.75								0.75	0.75	0.75
			x	WRET3310	Web Application Development	3	Internet and Web technologies		50%			3		3			3	3											0.6	0.6	0.6	0.6	0.6			
						12 hours					31	75	20	24	0	86	40	99	8	0	4	10	4.5	6	9	2.25	1.5	3	2.1	0.6	0.6	0.6	0.6	0.75	0.75	0.75
					TOTAL CREDIT HOURS:	126					24.60%	59.52%	15.87%	19.05%	0.00%	68.25%	31.75%	78.57%	6.35%	0.00%	3.17%	7.94%	3.57%	4.76%	7.14%	1.79%	1.19%	2.38%	1.67%	0.48%	0.48%	0.48%	0.48%	0.60%	0.60%	0.60%

Appendix L1: View Current Curriculum: Bachelor of Information Technology (Management)

TYPES OF COURSES				COURSE CODE	COURSES	CREDIT	Comments	Coursework			Theory			Practical in lab		Teory Applic'n	System Developt	Analytical Thinking	Java	Operating System	Oracle	MATLAB	Real world activities	Object Oriented Progrmng / Models	PHP	My SQL	Information Accuracy	JMF	Java 2D	AWT (Animation)	Digital video / images	Adobe photoshop Premiere	3D object Modeling	C sound program	Open GL	VRML	Game Programming	C++	XML Web Services	XHTML	DHTML	Java Script	CSS
UC	CC	EP1	EP2					Test / Quiz	Tut/ Assign/ Projt	Lab test	(Basic)	(Inter-mediate)	(Adv-ance)	Yes	No																													
x				GXEX1410 / GXEX1413	TITAS / Intro to Malaysia (International student only)	2	University Courses				2					2																												
x				GXEX1411	Ethnic Relations (Mlyn	2	University Courses				2					2																											
x				GXEX1401	Information skills	1	University Courses				1					1																											
x				GXEX1412	Fundamental of Entrepreneurship Culture	2	University Courses				2					2																											
x				WXES2112	Thinking and Communication Skills	3	University Courses				3					3																											
x					English for Communication I	3	University Courses				3					3																											
x					English for Communication II	3	University Courses				3					3																											
x					Co-Curriculum	2	University Courses				2					2																											
						18																																					
	x			WXES1112	Computing Mathematics I	3	Discrete Maths	50%				3				3		3																									
	x			WXES1109	Computer Systems & Organization	3	Intro to Computer System & organization	50%			3					3		3																									
	x			WXES1116	Programming I	5	Programming	50%			5			5			5	5	2.5					2.5																			
	x			WXES1117	Data Structure (#WXES1116)	5	Introduction to Data Structure	50%			5			5		5		5	2.5					2.5																			
	x			WXES2113	Operating System	4	Systems	50%			4					4		4		4																							
	x			WXES2114	Database	5	Basic concepts of DB	50%				5				5		5			5																						
	x			WMES2111	Open Source Programming	3	source	50%				3		3			3	3							1.5	1.5																	
	x			WMES2112	System Analysis, Modeling and Design	4	Computer based SAD	50%				4				4		4						4																			
	x			WRET3105	Data Communication and Networking	3						3					3																									
	x			WRET2110	Interaction Design	3						3					3																									
	x			WMES3106	Information Control and Security	3	Information Security & Risk Management	50%				3				3		3					1.5				1.5																
	X			WRET1106	Multimedia System	4	Multimedia application	50%				4				4		4																									
	X			WXET3104	Multimedia Programming	4	Object oriented programming	50%					4	4			4	4	1									1	1	1													
	x			WXES2193	Industrial Training *	12	Industrial Training = 2-3 subjects	100%					12				12	12																									
	x			WXES3183	Foundation For Academic Project Skills**	3	Research activities	100%				3				3		3																									
	X			WRET3182	Academic Project For Multimedia II (#WXES3183)	5	Analyze, design, develop and test system and report	100%					5	5			5	5					5																				
						69																																					
		X		WRET1104	Mathematics for Multimedia	3	Mathematics in signal processing	50%				3				3		3																									
		X		WRET1105	Multimedia Application Development	3	Digital images and graphics	70%				3		3			3	3													1	1	1										
		X		WRET2112	Visual Computing and Graphics	4	Learn on 2D and 3D computer graphics	50%				4		4			4	4											1.33				1.33		1.34									
		X		WRET2108	Digital Image Processing	3	About digital video processing	50%				3				3		3	1			1									1													
		X		WRET2105	Audio Synthesis	3	About audio	50%				3				3		3																3									
		X		WRET2109	Digital Video Processing	3	Discuss on digital video processing	50%				3					3														3												
		X		WRET2111	Rendering and Animation	4	Computer animation applications	50%					4	4			4	4											4														
		X		WRET3106	Virtual Reality	4	Discuss on virtual reality technology	50%				4		4			4	4						2												2							
		X		WRET3314	Computer Games	3	Computer games	50%					3	3			3	3	1																		1	1					
						30 HOURS																																					
			x	WRET3310	Web Application	3	Internet and Web technology	50%				3		3			3	3																			0.6	0.6	0.6	0.6	0.6
			x	WRET3312	Multimedia in Learning	3	Multimedia application in education	50%				3						3																									
			x	WRET3313	Multimedia Information Retrieval	3	Retrieving multimedia information	50%				3				3		3																									
			x	WMES3302	Decision Support System	3	Decision making process	50%				3				3																											
						9 HOURS					35	66	28	43	0	67	59	99	8	4	5	1	6.5	11	1.5	1.5	1.5	1	6.33	1	5	1	2.33	3	1.34	2	1	1	0.6	0.6	0.6	0.6	
				TOTAL CREDIT HOUR:		126					27.78%	52.38%	22.22%	34.13%	0.00%	53.17%	46.83%	78.57%	6.35%	3.17%	3.97%	0.79%	5.16%	8.73%	1.19%	1.19%	1.19%	0.79%	5.02%	0.79%	3.97%	0.79%	1.85%	2.38%	1.06%	1.59%	0.79%	0.79%	0.48%	0.48%	0.48%	0.48%	0.00%

Appendix L2: View Current Curriculum: Bachelor of Information Technology (Multimedia)

TYPES OF COURSES				COURSE CODE	COURSES	CREDIT	Comments	Coursework			Theory			Practical in lab		Teory Applic'n	System Developt	Analytical Thinking	Java	AI	OS	OSI layers & TCP/IP layers	LAN	WAN	IP addressing	VLSM	Real world activities	Project Mgt	Object Oriented Progrmg / Models	CASE tool	Software Quality	Router / Switch	Ipv6	Wireless network	VHDL	Network Security	Network Mgt	Network Mgt Protocols (SNMP, NTP)	Mobile Computing
UC	CC	EP1	EP2					Test / Quiz	Tut/ Assign/ Projt	Lab test	(Basic)	(Inter-mediate)	(Adv-ance)	Yes	No																								
x				GXEX1410 / GXEX1413	TITAS / Intro to Malaysia (International student only)	2	University Courses				2					2																							
x				GXEX1411	Ethnic Relations (Mlyn student)	2	University Courses				2					2																							
x				GXEX1401	Information skills	1	University Courses				1					1																							
x				GXEX1412	Fundamental of	2	University Courses				2					2																							
x				WXES2112	Thinking and Communication Skills	3	University Courses				3					3																							
x					English for Communication I	3	University Courses				3					3																							
x					English for Communication II	3	University Courses				3					3																							
x					Co-Curriculum	2	University Courses				2					2																							
						18 hours																																	
	x			WXES1112	Computing Mathematics I	3	Discrete Maths		50%			3				3		3																				
	x			WMES1105	Principles of Information	3	IS theory	15%	35%		3					3																							
	x			WXES1109	Computer Systems & Organization	3	Intro to Computer System & organization		50%		3					3		3																					
	x			WXES1116	Programming I	5	Fundamental Programming		50%		5			5			5	5	2.5											2.5									
	x			WXES1117	Data Structure (#WXES1116)	5	Introduction to Data Structure		50%		5			5		5		5	2.5											2.5									
	x			WAES1102	Principles of Artificial Intelligence	3	Introduction to AI	20%	30%		3				3	3				3																			
	x			WKES1104	Software Engineering	3	Intro to S.Engineering		50%		3					3																							
	x			WRES1201	Computer System Architecture	3	Intro to computer architecture		50%		3					3																							
	x			WXES2113	Operating System	4	Intro to Operating Systems		50%		4					4					4																		
	x			WXES2114	Database	5	Basic concepts of DB		50%			5				5		5			5																		
	x			WMES2112	System Analysis, Modeling and Design	4	Computer based SAD		50%			4				4		4											4										
	x			WRES2111	Fundamentals of Network Technology	5	Intro to computer and networking		50%			5					5					1	1	1	1	1													
	x			WRES2203	Advanced Network Technology (#WRES2111)	4	Concepts & needs of network technologies		50%			4		4		4		4					0.8	0.8							0.8	0.8	0.8						
	x			WXES2193	Industrial Training *	12	Industrial Training = 2-3 subjects		100%				12				12	12																					
	x			WXES3183	Foundation For Academic	3	Research activities		100%			3				3		3																					
	x			WRES3182	Academic Project for Computing System & Technology II (#WXES3183)	5	Analyze, design, develop, test system and report		100%				5	5			5	5										5												
					70	70 hours																																	
		x		WRES1102	VHDL	3	Discuss on VHDL		50%			3				3		3										1.5							1.5				
		x		WRES1103	Digital Design	3	Digital design		50%		3			3			3	3																	3				
		x		WRES2112	Network Security	4	Discuss network security		50%			4				4		4									2									2			
		x		WRES2109	Mathematics in Networking	3	Discuss on graph theory		50%			3				3		3																					
		x		WRES3107	Microprocessor	4	Intro to microprocessor		50%			4				4		4																					
		x		WRES3109	Principle in Distributed Systems	4	Intro to distributed system		50%			4				4		4																					
		x		WRES3108	Enterprise Network Design and Management	4	Protocols for network management		50%			4				4		4																		1.33	1.33	1.34	
		x		WRES3405	Mobile Computing	3	Intro to wireless network and mobile computing		50%			3				3		3																1.5					1.5
						28 Hours																																	
			x	WRES3104	Network Modelling And Simulation	3	Intro to simulation		50%									3																					
			x	WRES3301	Cryptography	3	Intro to Cryptography		50%									3																					
			x	WRES3303	VLSI	3	Advanced concept of circuit design		50%				3					3																					
			x	WRES3305	Emergence Network Technology	3	Next generation network		50%				3					3					1.5										1.5						
			x	WRES3310	Intelligent Network Technology	3	Network and AI		50%									3			3																		
			x	WRES3315	Embedded Programming System	3	Architecture of embedded system		50%									3																					
			x	WKES3106	Software Quality	3	s/w quality & s/w quality assurance		50%							3		3												1.5	1.5								
			x	WAES2107	Fundamentals Of Cognitive Science	3	Intro to cognitive science		50%							3																							
			x	WMES2205	Information System Management (#WMES1105	3	Issues in managing IS		50%				3			3		3																					
						9 Hours					50	49	26	22	3	95	30	101	5	6	9	1	3.3	1.8	1	1	7	1.5	9	1.5	1.5	0.8	2.3	2.3	4.5	3.33	1.33	1.34	1.5
					TOTAL CREDIT HOURS:	125					40.00%	39.20%	20.80%	17.60%	2.40%	76.00%	24.00%	80.80%	4.00%	4.80%	7.20%	0.80%	2.64%	1.44%	0.80%	0.80%	5.60%	1.20%	7.20%	1.20%	1.20%	0.64%	1.84%	1.84%	3.60%	2.66%	1.06%	1.07%	1.20%

Appendix L3: Bachelor of Computer Science (Computer System and Networking)

TYPES OF COURSES				COURSE CODE	COURSES	CREDIT	Comments	Coursework			Theory			Practical in lab		Teory Applic'n	Sys Devpt	Analytical Thinking	Java	AI	OS	Oracle	OSI layers & TCP/IP layers	LAN	WAN	IP addressing	VLSM	Real world activities	Project Mgt	Object Oriented Programming / Models	CASE tool	HTML	COBRA	COM+	EJB	.NET	API Programming	Software Quality	Software Testing	Router / Switch	Ipv6	Wireless network	C++	Visual C#
UC	CC	EP1	EP2					Test / Quiz	Tut/ Assign / Proj	Lab test	(Basic)	(Inter-mediate)	(Adv-ance)	Yes	No																													
x				GXEX1410 / GXEX1413	TITAS / Intro to Malaysia (International student only)	2	University Courses				2					2																												
x				GXEX1411	Ethnic Relations (Mlyn student)	2	University Courses				2					2																												
x				GXEX1401	Information skills	1	University Courses				1					1																												
x				GXEX1412	Fundamental of Entrepreneurship Culture	2	University Courses				2					2																												
x				WXES2112	Thinking and Communication Skills	3	University Courses				3					3																												
x					English for Communication I	3	University Courses				3					3																												
x					English for Communication II	3	University Courses				3					3																												
x					Co-Curriculum	2	University Courses				2					2																												
						18																																						
	x			WXES1112	Computing Mathematics I	3	Discrete Maths	50%				3				3		3																										
	x			WMES1105	Principles of Information	3	IS theory	15%	35%		3					3																												
	x			WXES1109	Computer Systems & Organization	3	Intro to Computer System &	50%			3					3		3																										
	x			WXES1116	Programming I	5	Fundamental Programming	50%			5			5			5	5	2.5											2.5														
	x			WXES1117	Data Structure (#WXES1116)	5	Introduction to Data Structure	50%			5			5		5		5	2.5											2.5														
	x			WAES1102	Principles of Artificial	3	Introduction to AI	20%	30%		3				3	3				3																								
	x			WKES1104	Software Engineering	3	Into to S.Engineering	50%			3					3																												
	x			WRES1201	Computer System Architecture (#WXES1109)	3	Into to computer architecture	50%			3					3																												
	x			WXES2113	Operating System	4	Into to Operating Systems	50%				4				4					4																							
	x			WXES2114	Database	5	Basic concepts of DB	50%				5				5		5				5																						
	x			WRES2111	Fundamentals of Network Technology	5	Into to computer and networking	50%				5					5						1	1	1	1	1																	
	x			WKES2110	Object-Oriented Modeling (#WKES1104)	4	object oriented modeling concepts	50%				4					4													4															
	x			WKES3109	Software Architecture and Design Paradigms	4	Detailed on s/w development	50%					4	4			4	4													4														
	x			WXES2193	Industrial Training *	12	Industrial Trainning = 2-3 subjects	100%					12				12	12																										
	x			WXES3183	Foundation For Academic Project Skills**	3	Research activities	100%				3				3		3																										
	X			WRES3182	Academic Project for Software Engineering II (#WXES3183)	5	Analyze, design, develop, test system and report	100%					5	5			5	5																										
						70																																						
		x		WKES2107	Human Computer Interaction	4	HCI fundamentals	50%				4					4	4																										
				WKES2108	Software Project Management	4	Intro to Management concepts	50%				4				4		4										2	2																
				WKES2109	Programming for Web Engineering	4	Teoretical & practical of web development	50%				4		4			4	4	4													4													
				WKES3202	Software Requirements Engineering	3	s/w requirements fundamentals	50%				3				3		3																										
				WKES3106	Software Quality	3	s/w quality & s/w quality assurance	50%				3				3		3														1.5						1.5							
				WKES3206	Software Engineering II (#WKES1104)	4	Fundamental concepts & principals of s/w reuse	50%				4				4														0.66			0.66	0.66	0.66	0.66	0.67							
				WKES3110	Software Verification and Validation	4	verification & Validation	50%				4				4		4																					4					
						26																																						
			x	WKES3108	Software Evoluation and Validation	3	Software evolution and configuration	50%				3						3																										
			x	WKES3204	Software Process And Metrics	3	Software process improvement	50%				3						3		3									1.5								1.5							
			x	WKES2401	Programming Language Concepts (#WKES1114)	3	Program design	50%				3						3																										
			x	WKES3203	Advance Programming	3	Visual C#	50%					3	3				3																										3
			x	WKES3311	Analisis Algoritma	3	Analyze algorithm	50%					3	3			3	3																									3	
			x	WKES3403	Automated Theory	3	Analyze algorithm	50%				3						3																										
			x	WAES2107	Fundamentals Of Cognitive Science	3	Intro to cognitive science	50%				3																															3	
			x	WMES2271	Database Administration (#WXES2103)	5	Database management	50%					5	5			5					5																						
			x	WRES2203	Advanced Network Technology (#WRES2111)	4	Concepts & needs of network technologies	50%					4	4		4		4						0.8	0.8															0.8	0.8	0.8		
						12					43	65	36	38	3	75	51	89	9	6	4	10	1	1.8	1.8	1	1	2	3.5	9.66	5.5	4	0.66	0.66	0.66	0.66	0.67	3	4	0.8	0.8	0.8	6	3
					TOTAL CREDIT HOURS:	126					34.13%	51.59%	28.57%	30.16%	2.38%	59.52%	40.48%	70.63%	7.14%	4.76%	3.17%	7.94%	0.79%	1.43%	1.43%	0.79%	0.79%	1.59%	2.78%	7.67%	4.37%	3.17%	0.52%	0.52%	0.52%	0.52%	0.53%	2.38%	3.17%	0.63%	0.63%	0.63%	4.76%	2.38%

Appendix L4: Bachelor of Computer Science (Software Engineering)

TYPES OF COURSES					COURSES	CRDT		Coursework			Theory			Practical in lab																									
UC	CC	EP1	EP2	COURSE CODE			Comments	Test / Quiz	Tut/ Assign/ Proj	Lab test	(Basic)	(Inter-mediate)	(Adv-ance)	Yes	No	Teory Applic'n	System Devpt	Analytical Thinking	Java	AI	OS	Oracle	OSI layers & TCP/IP layers	LAN	WAN	IP addres sing	VLSM	Real world activities	Project Mgt	Object Oriented Programming / Models	CASE tool	HTML	Router / Switch	Ipv6	Wireless network	PHP	MySQL	Information Accuracy
x				GXEX1410 / GXEX1413	TITAS / Intro to Malaysia (International student only)	2	University Courses				2					2																							
x				GXEX1411	Ethnic Relations (Mlyn student)	2	University Courses				2					2																							
x				GXEX1401	Information skills	1	University Courses				1					1																							
x				GXEX1412	Fundamental of Entrepreneurship Culture	2	University Courses				2					2																							
x				WXES2112	Thinking and Communication Skills	3	University Courses				3					3																							
x					English for Communication I	3	University Courses				3					3																							
x					English for Communication II	3	University Courses				3					3																							
x					Co-Curriculum	2	University Courses				2					2																							
						18																																	
	x			WXES1112	Computing Mathematics I	3	Discrete Maths	50%				3				3		3																					
	x			WMES1105	Principles of Information Systems	3	IS theory	15%	35%		3					3																							
	x			WXES1109	Computer Systems & Organization	3	Intro to Computer System & organization	50%			3					3		3																					
	x			WXES1116	Programming I	5	Fundamental Programming	50%			5			5			5	5	2.5											2.5									
	x			WXES1117	Data Structure (#WXES1116)	5	Introduction to Data Structure	50%			5			5		5		5	2.5											2.5									
	x			WAES1102	Principles of Artificial Intelligence	3	Introduction to AI	20%	30%		3				3	3				3																			
	x			WKES1104	Software Engineering	3	Into to S.Engineering	50%			3					3																							
	x			WRES1201	Computer System Architecture (#WXES1109)	3	Into to computer architecture	50%			3					3																							
	x			WXES2113	Operating System	4	Into to Operating Systems	50%				4				4					4																		
	x			WXES2114	Database	5	Basic concepts of DB	50%				5				5		5				5																	
	x			WRES2111	Fundamentals of Network Technology	5	Into to computer and networking	50%				5					5						1	1	1	1	1												
	x			WMES2112	System Analysis, Modeling and Design	4	Computer based SAD	50%				4				4		4												4									
	x			WMES3108	IT Project Management	4						4					4																						
	x			WXES2193	Industrial Training *	12	Industrial Trainning = 2-3 subjects	100%					12				12	12																					
	x			WXES3183	Foundation For Academic Project Skills**	3	Research activities	100%				3				3		3																					
	x			WMES3182	Academic Project For Management Information System II (#WXES3183	5	Analyze, design, develop, test system and report	100%					5			5		5																					
						70																																	
		x		WMES2111	Open Source Programming	3	Discussion on open source	50%				3		3			3	3																		1.5	1.5	
		x		WMES2109	Organisational Theory	3	Issues in managing IS	50%				3				3		3																					
		x		WMES2205	Information System Management (#WMES1105	3	Issues in managing IS	50%					3			3		3																					
		x		WMES3106	Information Control and Security	3	Information Security & Risk Management	50%				3				3		3										1.5										1.5
		x		WMES2271	Database Administration (#WXES2103)	5	Database management	50%				5		5			5					5																	
		x		WMES3107	Information System Auditing	3	Auditing system development	50%				3				3		3											1.5									1.5
		x		WMES3110	Intelligent Agent in Information Syste	3	Discuss Intelligent Agents	50%				3				3		3											1.5		1.5							
		x		WMES3109	Technopreneurship	3	Entrepreneurial	50%					3			3		3										3											
						26																																	
			X	WMES3104	Accounting Management System	3	Intro to Accounting Info. System	50%				3				3		3																					
			X	WMES3302	Decision Support System	3	Decision making process	50%																															
			X	WMES3314	Electronic Commerce	3	Implementing E-commerce	50%										3																					
			X	WMES3318	Knowledge Management	3	Discuss on Knowledge Management	50%																															
			X	WMES3320	Fundamentals Of Data Mining And Warehousing	3	Discuss on data mining	50%																															
			x	WKES2107	Human Computer Interaction	4	HCI fundamentals	50%										4																					
			x	WRES2203	Advanced Network Technology (#WRES2111)	4	Concepts & needs of network technologies	50%				4		4		4		4						0.8	0.8								0.8	0.8	0.8				
			x	WKES2109	Programming for Web Engineering	4	Teoretical & practical of web development	50%				4		4			4	4	2																				
						11																																	
											43	59	23	26	3	87	38	84	7	3	4	10	1	1.8	1.8	1	1	4.5	3	9	0	2	0.8	0.8	0.8	1.5	1.5	3
					TOTAL CREDIT HOURS:	125					34.40%	47.20%	18.40%	20.80%	2.40%	69.60%	30.40%	67.20%	5.60%	2.40%	3.20%	8.00%	0.80%	1.44%	1.44%	0.80%	0.80%	3.60%	2.40%	7.20%	0.00%	1.60%	0.64%	0.64%	0.64%	1.20%	1.20%	2.40%

Appendix L5: Bachelor of Computer Science (Management Information System)

COURSE CODE	COURSES	CREDIT	Comments	Coursework			Theory			Practical in lab		Teory Applic'n	System Develop	Analytical Thinking	Java	AI	Opertg System	Oracle	OSI layers & TCP/IP layers	LAN	WAN	IP addressing	VLSM	MATLAB	Expert System	Prolog	Robotics	Neural Network	Real world activities	Fuzzy Logic	Project Mgt	Object Oriented Progrng / Models	CASE tool	Network Security
				Test / Quiz	Tut/ Assign/ Projt	Lab test	(Basic)	(Inter-mediate)	(Adv-ance)	Yes	No																							
GXEX1410 / GXEX1413	TITAS / Intro to Malaysia (International student only)	2	University Courses				2					2																						
GXEX1411	Ethnic Relations (Mlyn student)	2	University Courses				2					2																						
GXEX1401	Information skills	1	University Courses				1					1																						
GXEX1412	Fundamental of Entrepreneurship Culture	2	University Courses				2					2																						
WXES2112	Thinking and Communication Skills	3	University Courses				3					3																						
	English for Communication I	3	University Courses				3					3																						
	English for Communication II	3	University Courses				3					3																						
	Co-Curriculum	2	University Courses				2					2																						
		18																																
WXES1112	Computing Mathematics I	3	Discrete Maths	50%				3				3		3																				
WMES1105	Principles of Information Systems	3	IS theory	15%	35%		3					3																						
WXES1109	Computer Systems & Organization	3	Intro to Computer System & organization	50%			3					3		3																				
WXES1116	Programming I	5	Fundamental Programming	50%			5			5			5	5	2.5																	2.5		
WXES1117	Data Structure (#WXES1116)	5	Introduction to Data Structure	50%			5			5		5		5	2.5																	2.5		
WAES1102	Principles of Artificial Intelligence	3	Introduction to AI	20%	30%		3				3	3				3																		
WKES1104	Software Engineering	3	Into to S.Engineering	50%			3					3																						
WRES1201	Computer System Architecture (#WXES1109)	3	Into to computer architecture	50%			3					3																						
WXES2113	Operating System	4	Into to OS	50%			4					4					4																	
WXES2114	Database	5	Basic concepts of DB	50%				5				5		5				5																
WRES2111	Fundamentals of Network Technology	5	Into to computer and networking	50%				5					5						1	1	1	1	1											
WMES2112	System Analysis, Modeling and Design	4	Computer based SAD	50%				4				4		4																		4		
WAES2104	Mathematics for Intelligent System	4						4				4																						
WXES2193	Industrial Training *	12	Industrial Training = 2-3 subjects	100%					12				12	12																				
WXES3183	Foundation For Academic Project Skills**	3	Research activities	100%				3					3	3																				
WRES3182	Academic Project for Artificial Intelligence 11 (#WXES3183)	5	Analyze, design, develop, test system and report	100%					5				5																					
		70																																
WAES2103	Expert System	3	Knowledge Engineering mehodology for ES	50%				3				3		3											3									
WAES2106	Prolog Programming	3	Intro to prolog programming	50%				3				3		3												3								
WAES2107	Fundamentals Of Cognitive Science	3	Intro to cognitive science	50%				3				3																						
WAES3105	Machine Learning Methods	3	Machine learning field	50%				3				3		3																				
WAES2108	Natural Language Processing and Generation	3						3				3																						
WAES3106	Image Processing	3	process & hardware of image acquisition	50%				3					3																					
WAES3102	Fudamentals of Robot Intelligence	3	Fundamental of robot intelligence	50%				3				3															3							
WAES3104	Fundamentals of Artificial Neural Network	3	Discuss on artificial neural network	50%				3				3		3														3						
WAES3206	Fuzzy Logic (#WXES1112)	3	Discuss on fuzzy logic	50%				3				3		3															1.5	1.5				
		27																																
WAES3306	Information System Intelligence	3	Intro to IS Intelligence	50%										3																				
WAES3308	Numerical Methods for Artificial Intelligence	3	numerical analysis	50%										3																				
WAES3370	Artificial Intelligence Software Tools	3	Discuss on MATLAB	100%						3			4	3										3										
WRES3301	Crytography	3	concept of cryptography	50%										3																				3
WKES2108	Software Project Management	4	Intro to Management concepts	50%				4				4		4															2		2			
WMES3110	Intelligent Agent in Information Syste	3	Discuss Intelligent Agents	50%				3				3		3																	1.5		1.5	
WMES3302	Decision Support System	3	Decision making process	50%				3																										
		11					47	61	17	13	3	89	37	74	5	3	4	5	1	1	1	1	1	3	3	3	3	3	3.5	1.5	3.5	9	1.5	3
TOTAL CREDIT HOURS:		126					37.30%	48.41%	13.49%	10.32%	2.38%	70.63%	29.37%	58.73%	3.97%	2.38%	3.17%	3.97%	0.79%	0.79%	0.79%	0.79%	0.79%	2.38%	2.38%	2.38%	2.38%	2.38%	2.78%	1.19%	2.78%	7.14%	1.19%	2.38%

Appendix L6: Bachelor of Computer Science (Artificial Intelligent)