

**KULLIYAH OF INFORMATION AND COMMUNICATION TECHNOLOGY**

**BACHELOR OF INFORMATION TECHNOLOGY (HONOURS)**

**(FOR BATCH 201 AND ABOVE)**

**GENERAL PROGRAMME STRUCTURE, CREDIT HOUR AND GRADUATION REQUIREMENTS**

Program Structure	Credit Hours
University Required Courses	20 +2
Kulliyah Required Courses	39
Department Required Courses	33
Industrial Attachment	9
Final Year Project (I &II)	8
Electives/Specialization Courses	21
<b>Total Credit Requirements of Graduation Malaysia &amp; International</b>	<b>130 +2</b>

University Required Courses (22 credit hours)			
Islamic Fundamental Knowledge (11 credit hours)			
Course Code	Course Name (credit hours)	Offering Dept	Pre-requisite
UNGS 1301	Basic Philosophy and Islamic Worldview (3)	IRKHS	-
UNGS 2290	Knowledge & Civilization in Islam (2)	IRKHS	-
UNGS 2380	Ethics and Fiqh Of Contemporary Issues (3)	IRKHS	-
TQTD 1002	Tilawah Al-Quran 1 (0.5)	CELPAD	-
TQTD 2002	Tilawah Al-Quran 2 (0.5)	CELPAD	TQTD 1002
LQAD 1003	Arabic for Ibadah 1 (0.5)	CELPAD	-
LQAD 2003	Arabic for Ibadah 2(0.5)	CELPAD	LQAD 1003
CCUB 1061	Usrah 1 (0.5)	STADD	-
CCUB 1062	Usrah 2 (0.5)	STADD	CCUB 1061
Leadership and Skills (7) credit hours			
LEED 1301	English for Academic Writing (3)	CELPAD	-
CCFM 2061	Family Management (0.5)	STADD	-
CCLM 2051	Leadership (0.5)	STADD	-
CCSS 1020 CCSS 2010 CCSS 3010	Skills 1(0.5) Skills 2 (0.5)	STADD	-
LMBD 1131	Bahasa Melayu I* (1)	CELPAD	-
LMBD 1132	Bahasa Melayu II* (1)	CELPAD	LMBD 1131
Sustainable Development (4) credit hours			
UNGS 1201	Sustainable Development Issues , Principles and Practices (2)	IRKHS	-
CCUB 2163	Usrah in Action 1( SD: Community Profiling) (1)	TBD	UNGS 1201
CCUB 3164	Usrah in Action 2 (1)	TBD	CCUB 2163

Kulliyah required courses (39 credit hours)			
No	Course Code	Description (number of credit hours)	Pre-requisite
1	INFO 1302	Business Fundamentals (3)	-
2	CSCI 1300	Elements of Programming (3)	-
3	INFO 1303	Database Systems (3)	-
4	CSCI 1301	Object-Oriented Programming (3)	CSCI 1300
5	CSCI 1302	Introduction to Computer Organization (3)	CSCI 1303
6	CSCI 1303	Mathematics for Computing I (3)	-
7	INFO 2304	System Analysis & Design (3)	CSCI 1300
8	INFO 4304	ICT & Islam (3)	4 <sup>th</sup> year student
9	CSCI 1304	Probability and Statistics (3)	-
10	CSCI 1305	Introduction to Software Engineering (3)	-
11	INFO 4303	Technopreneurship (3)	4 <sup>th</sup> year student
12	CSCI 3300	Operating Systems (3)	CSCI 1302
13	INFO 3307	Human Computer Interaction (3)	INFO 2304
14	LM 2026	Bahasa Melayu Kerjaya (Malaysian) (2)	
<b>TOTAL=39 Credit Hours, 13 courses</b>			
Department required courses for BIT (50 credit hours)			
No	Course Code	Description (number of credit hours)	Pre-requisite
1	INFO 2302	Web Technologies (3)	-
2	CSCI 2300	Data Structures and Algorithms I (3)	CSCI 1301
3	CSCI 2301	Computer Networking (3)	CSCI 1303
4	INFO 2303	Database Programming (3)	INFO 1303
5	CSCI 2303	Principles of IT Security (3)	CSCI 2301
6	INFO 2305	Multimedia Technology (3)	-
7	INFO 2306	Management of Information Systems (3)	INFO 1302
8	INFO 3305	Web application Development (3)	CSCI 1301
9	INFO 3304	E-Commerce (3)	INFO 2305, INFO 2302
10	INFO 3308	Project Management in IT (3)	INFO 2304
11	INFO 4305	Cyber Law and Ethics (3)	INFO 3307
12	INFO 4401	Final Year Project I (4)	CSCI 1304, CSCI 2301, INFO 2303, INFO 2304, INFO 2305, INFO 3305
13	INFO 4402	Final Year Project II (4)	INFO 4401
14	INFO 4901	Industrial Attachment (9)	Passed all courses
<b>TOTAL=50 Credit Hours, 14 courses (inclusive of Final Year Project and Industrial Attachment)</b>			

**\*International Student Only**

**LIST OF SPECIALIZATIONS (APPROVED IN  
KMM NO 8/2017 DATED 15/8/2017).**

**DIGITAL MEDIA DESIGN (21 CREDIT HOURS)  
4 Specialization Core Courses and 3 courses from any  
specialization**

No	Course Code	Course Title (credit hours)	Pre-requisite(s)
1	INFO 4320	Animation Technique (3)	INFO 2305
2	INFO 4321	Creative Design Technique (3)	INFO 2305
3	INFO 4322	Digital Content Design (3)	INFO 4320, INFO 4321
4	INFO 4323	Game Technology (3)	INFO 4320
5	INFO 4327	New Media Technology Content and Applications (3)	INFO 2305
6	INFO 4324	Digital Audio and Video Technology (3)	INFO 2305
7	INFO 4325	Graphic Design (3)	INFO 2305
8	INFO 4326	3D Modelling (3)	INFO 2305

**ENTERPRISE TECHNOLOGY MANAGEMENT  
(21 CREDIT HOURS)  
4 Specialization Core Courses and 3 courses from any  
specialization**

No	Course Code	Course Title (credit hours)	Pre-requisite(s)
1	INFO 4330	Control and Audit of Information Systems (3)	INFO 2304, INFO 2306
2	INFO 4331	Information Resource and Strategy Management (3)	INFO 3304, INFO 3308
3	INFO 4333	Integrated Business Process and ERP Systems (3)	INFO 3304
4	INFO 4332	Knowledge Management Practices and Applications (3)	INFO 2306
5	INFO 4334	Web Application Framework (3)	INFO 1303
6	INFO 4336	Information Retrieval Technologies (3)	CSCI 1301
7	INFO 4335	Mobile Application Development (3)	INFO 3305

**INFORMATION ASSURANCE AND SECURITY  
(21 CREDIT HOURS)  
4 Specialization Core Courses and 3 courses from any  
specialization**

No	Course Code	Course Title (credit hours)	Pre-requisite(s)
1	INFO 4340	Management of Information Security (3)	CSCI 2303
2	INFO 4342	Business Continuity & Disaster Recovery (3)	CSCI 2303
3	INFO 4341	Risk Management (3)	CSCI 2303
4	INFO 4330	Control and Audit of Information Systems (3)	INFO 2304, INFO 2306
5	INFO 4343	Information Privacy (3)	CSCI 2303
6	INFO 4344	Physical Protective Security (3)	CSCI 2303
7	INFO 4345	Web Application Security (3)	INFO 3305
8	CSCI 4333	Cryptography (3)	CSCI 2305
9	CSCI 4605	Digital Evidence Forensic (3)	CSCI 2303, CSCI 3300, CSCI 3301
10	CSCI 4312	Blockchain and Application	CSCI 1301

**BUSINESS INTELLIGENCE AND INFORMATION  
SCIENCE (21 CREDIT HOURS)  
4 Specialization Core Courses and 3 courses from any  
specialization**

No	Course code	Course Title (Credit hours)	Pre-requisite(s)
1	INFO 4311	Data Warehousing (3)	INFO 2303
2	INFO 4310	Data Mining (3)	INFO 2302
3	INFO 4312	Information Visualization (3)	INFO 3307
4	INFO 4314	Business Data Analytics (3)	INFO4311
5	CSCI 4343	Data Science (3)	CSCI 2304

**FREE OR NO SPECIALIZATION  
(21 CREDIT HOURS)  
7 COURSES FROM ANY SPECIALIZATION**

**PROPOSED STUDY PLAN FOR BACHELOR OF INFORMATION TECHNOLOGY (HONOURS)  
(FOR BATCH 201 AND ABOVE)**

YEAR 1 SEMESTER 1 (TOTAL CH 17)			YEAR 1 SEMESTER 2 (TOTAL CH 16 /17)		
COURSE CODE	DESCRIPTION	CREDIT HOURS	COURSE CODE	DESCRIPTION	CREDIT HOURS
CSCI 1300	Elements of Programming	3	CSCI 1304	Probability & Statistics	3
INFO 1303	Database Systems	3	CSCI 1305	Introduction to Software Engineering	3
CSCI 1303	Mathematics for Computing I	3	CSCI 1301	Object Oriented Programming	3
INFO 1302	Business Fundamental	3	CSCI 1302	Introduction to Computer Organization	3
UNGS 1201	Sustainable Development Issues, Principles and Practices	2	LMBD 1132	Bahasa Melayu 2 or	1
TQTD 1002	Tilawah Al-Quran I	0.5	LM 2026	Bahasa Melayu Kerjaya	2
LMBD 1131	Bahasa Melayu 1 (International)	1	UNGS 1301	Basic Philosophy and Islamic Worldview	3
CCUB 1061	Usrah 1	0.5	TQTD 2001	Tilawah Al-Quran 2	0.5
			CCUB 1062	Usrah 2	0.5
YEAR 2 SEMESTER 1 (TOTAL CH 19)			YEAR 2 SEMESTER 2 (TOTAL CH 19)		
COURSE CODE	DESCRIPTION	CREDIT HOURS	COURSE CODE	DESCRIPTION	CREDIT HOURS
INFO 2302	Web Technologies	3	CSCI 2300	Data Structure and Algorithms I	3
INFO 2303	Database Programming	3	CSCI 2301	Computer Networking	3
INFO 2305	Multimedia Technology	3	INFO 2306	Management Information Systems	3
UNGS 2380	Ethics and Fiqh Of Contemporary Issues	3	INFO 3307	Human Computer Interaction	3
INFO 2304	System Analysis and Design	3	CSCI 3300	Operating System	3
CSCI 2303	Principles of IT Security	3	LEED 1301	English for Academic Writing	3
LQAD 1003	Arabic for Ibadah 1	0.5	LQAD 2003	Arabic for Ibadah 2	0.5
CCSS 1010, CCSS 2010, CCSS 3010	Skills 1	0.5	CCSS 1/2/3010	Skills 2	0.5
YEAR 3 SEMESTER 1 (TOTAL CH 18.5)			YEAR 3 SEMESTER 2 (TOTAL CH 19.5)		
COURSE CODE	DESCRIPTION	CREDIT HOURS	COURSE CODE	DESCRIPTION	CREDIT HOURS
INFO 3305	Web Application Development	3	INFO 4303	Technopreneurship	3
INFO 3304	E-Commerce	3	INFO 4304	ICT & Islam	3
INFO 3308	Project Management in IT	3	INFO XXXX	Specialization III	3
UNGS 2290	Knowledge and Civilization in Islam	2	INFO XXXX	Specialization IV	3
INFO XXXX	Specialization I	3	INFO XXXX	Specialization V	3
INFO XXXX	Specialization II	3	INFO 4401	FYP I	4
CCLM 2051	Leadership	0.5	CCFM 2052	Family Management	0.5
CCUB 2163	Usrah in Action 1(SD : Community Profiling	1			
YEAR 4 SEMESTER 1 (TOTAL CH 14)			YEAR 4 SEMESTER 2 (TOTAL CH 9)		
COURSE CODE	DESCRIPTION	CREDIT HOURS	COURSE CODE	DESCRIPTION	CREDIT HOURS
INFO 4305	Cyber Law and Ethics	3	INFO 4901	Industrial Attachment	9
INFO 4402	FYP II	4			
CSCI XXXX	Specialization VI	3			
CSCI XXXX	Specialization VII	3			
CCUB 3164	Usrah in Action 2	1			