

**KULLIYAH OF INFORMATION AND COMMUNICATION TECHNOLOGY
BACHELOR OF INFORMATION TECHNOLOGY (HONOURS)**

(FOR BATCH 171 AND ABOVE)

GENERAL PROGRAMME STRUCTURE, CREDIT HOUR AND GRADUATION REQUIREMENTS

Program Structure	Credit Hours
University Required Courses	20
Kulliyah Required Courses	41
Department Required Courses	33
Industrial Attachment	9
Final Year Project (I &II)	8
Electives/Specialization Courses	21
Total Credit Requirements of Graduation (Malaysian)	132
Total Credit Requirements of Graduation (International)	130

University Required Courses (20 credit hours)			
General Studies Course (8 credit hours)			
Course Code	Course Name (credit hours)	Offering Dept	Prerequisite
UNGS 2060 or MPU 3112	Malay Virtues, Heritage & Malaysian Society (2) □ <i>International</i>	IRKHS	-
	Hubungan Etnik (2) □ <i>Malaysian</i>	MALAY	-
UNGS 2011	Creative Thinking and Problem Solving (2)	IRKHS	-
UNGS 2080	Ethics and Fiqh for Contemporary Issues (2)	IRKHS	-
UNGS 2090	Islamic Worldview & Civilization (2)	IRKHS	-
Language Courses (10 credit hours)			
LM 1030	Bahasa Melayu I Untuk Pelajar Asing (1)	CELPAD	-
LM 1031	Bahasa Melayu II Untuk Pelajar Asing (1)	CELPAD	LM 1030
LM 1040	Bahasa Melayu Nusantara I (1) (S'pura, Brunei, Indonesia)	CELPAD	-
LM 1041	Bahasa Melayu Nusantara II (1) (S'pura, Brunei, Indonesia)	CELPAD	LM 1040
MPU 3122	Tamadun Islam & Tamadun Asia Tenggara (2)	MALAY	-
LE 4000	English for Academic Writing (3)	CELPAD	-
LQ 1008	Quranic Language I (0.5)	CELPAD	-
LQ 2008	Quranic Language II (0.5)	CELPAD	LQ 0108
TQ 1001	Tilawah Al-Quran I (0.5)	CELPAD	-
TQ 2001	Tilawah Al-Quran II (0.5)	CELPAD	TQ 1001
Co-curricular Courses and USRAH 1&2 (3 credit hours) USRAH 3&4 (2credit hours)			
Students may choose from Spiritual, Leadership and Interest-based package			

Kulliyah required courses (41 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 1303	Mathematics for Computing I (3)	-
6	CSCI 1302	Introduction to Computer Organization (3)	CSCI 1303
7	INFO 2304	System Analysis & Design (3)	CSCI 1300
8	INFO 4304	ICT & Islam (3)	4 th year student
9	CSCI 1304	Probability and Statistics (3)	-
10	CSCI 1305	Introduction to Software Engineering (3)	-
11	INFO 4303	Technopreneurship (3)	4 th 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 (Sains dan Teknologi)	-
TOTAL=41 Credit Hours, 14 courses			

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 INFO 2303 CSCI 2301 INFO 2304 INFO 2305 INFO 3305
13	INFO 4402	Final Year Project II (4)	INFO 4401
14	INFO 4901	Industrial Attachment (9)	Completed ALL courses of BIT
TOTAL=50 Credit Hours, 14 courses (inclusive of Final Year Project and Industrial Attachment)			

**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)	Prerequisite(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)	Prerequisite(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)	Prerequisite(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 4332	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)	Prerequisite(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)	INFO 4311
5	CSCI 4343	Data Science (3)	CSCI 2304

**PROPOSED STUDY PLAN FOR BACHELOR OF INFORMATION TECHNOLOGY (HONOURS)
(FOR BATCH 171 AND ABOVE)**

YEAR 1 SEMESTER 1 (TOTAL CH 16)			YEAR 1 SEMESTER 2 (TOTAL CH 16)		
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
LM 1030 / LM 1040 MPU 3122	Bahasa Melayu I for Foreign students * Bahasa Melayu Nusantara I * Tamadun Islam & Tamadun Asia Tenggara (* <i>Malaysian</i>)	1 @ 2	LM 1031/ LM 1041 LM 2026/	Bahasa Melayu for Foreign students * Bahasa Melayu Nusantara II * Bahasa Melayu Sains & Teknologi	1@2
UNGS 2011	Creative Thinking and Problem Solving	2	MPU 3112 UNGS 2060	Hubungan Etnik (* <i>Malaysian</i>) Malay Virtues, Heritage & Malaysian Society (* <i>International</i>)	2
TQ 1001	Tilawah Al-Quran I	0.5	TQ 2001	Tilawah Al-Quran 2	0.5
CCCD 1611	USRAH 1	0.5	CCCD 1612	USRAH 2	0.5

YEAR 2 SEMESTER 1 (TOTAL CH 18)			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 2080	Ethics and Fiqh for Contemporary Issues	2	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	LE 4000	English for Academic Writing	3
LQ 1008	Elementary Quranic Language I	0.5	LQ 2008	Elementary Quranic Language II	0.5
CC 2XXX	Leadership I	0.5	CC 2XXX	Leadership II	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 2090	The Islamic Worldview and Civilization	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
CC 3XXX	Skill I	0.5	CC 3XXX	Skill II	0.5
CCCD 1621	USRAH 3	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			
CSC XXXX	Specialization VI	3			
CSC XXXX	Specialization VII	3			
CCCD 1622	USRAH 4	1			