

CURRICULUM STRUCTURE

Student will be graduating with Diploma in Information and Communication Technology after successfully completing at least 91 credit hours. Credit hours for subjects are as follows:

DIPLOMA IN INFORMATION AND COMMUNICATION TECHNOLOGY		
Minimum Graduating Credits - 91		
Component		Credit
Name	Code	
<i>Mata Pelajaran Umum (MPU)</i>	W	16
Core	P	22
Concentration	K	36
Elective	E	12
Industrial Training	P	5
TOTAL		91

MPU COMPENENTS (16 credits)

DLHW 1012	Foundation English (<i>Asas Bahasa Inggeris</i>)
DLHW 2422	English for Effective Communication (<i>Bahasa Inggeris untuk Komunikasi Berkesan</i>)
DLHW 3432	English for Marketability (<i>Bahasa Inggeris untuk Kebolehpasaran</i>)
DLHW 1032	Malaysian Studies (<i>Pengajian Malaysia</i>)
DLHW 1722	Philosophy of Science & Technology (<i>Falsafah Sains & Teknologi</i>)
DLHW 1742	Leadership (<i>Kepimpinan</i>)
DTMW 1012	Fundamentals of Entrepreneurial Acculturation (<i>Asas Pembudayaan Keusahawanan</i>)
DKK- ---1	Co-curriculum I (<i>Ko-kurikulum I</i>)
DKK- ---1	Co-curriculum II (<i>Ko-kurikulum II</i>)

CORE COMPONENTS (22 credits)

DITI 1213	Calculus (<i>Kalkulus</i>)
DITI 1223	Discrete Mathematics (<i>Matematik Diskrit</i>)
DITI 2213	Linear Algebra and Numerical Methods (<i>Aljabar Linear dan Kaedah Berangka</i>)
DITI 2233	Statistics and Probability (<i>Statistik dan Kebarangkalian</i>)
DITP 1113	Programming I (<i>Pengaturcaraan I</i>)
DITU 3933	System Development Workshop (<i>Bengkel Pembangunan Sistem</i>)
DITU 3964	Diploma Project (<i>Projek Diploma</i>)

CONCENTRATION COMPONENTS (36 credits)

DITP 1123	Programming II (<i>Pengaturcaraan II</i>)
DITP 1333	Database (<i>Pangkalan Data</i>)
DITP 2113	Data Structure and Algorithm (<i>Struktur Data dan Algorithma</i>)
DITP 2213	System Analysis and Design (<i>Analisa dan Rekabentuk Sistem</i>)
DITP 3113	Object-oriented Programming (<i>Pengaturcaraan Berorientasikan Objek</i>)
DITP 2123	Event-Based Programming (<i>Pengaturcaraan Berpandukan Peristiwa</i>)
DITS 1133	Computer Organization & Architecture (<i>Organisasi & Senibina Komputer</i>)
DITS 2213	Operating System (<i>Sistem Pengoperasian</i>)
DITS 2313	Data Communication and Networking (<i>Komunikasi Data dan Rangkaian</i>)
DITS 2413	Computer Security (<i>Keselamatan Komputer</i>)
DITM 2113	Multimedia System (<i>Sistem Multimedia</i>)
DITM 2123	Web Programming (<i>Pengaturcaraan Web</i>)

ELECTIVE COMPONENTS (12 credits)

DITP 3253	Software Requirements and Design (<i>Keperluan dan Rekabentuk Perisian</i>)
DITP 3263	Software Verification and Validation (<i>Validasi dan Verifikasi Perisian</i>)
DITP 3273	Strategic Information System Planning (<i>Perancangan Strategik Sistem Maklumat</i>)
DITP 3313	Database Design (<i>Rekabentuk Pangkalan Data</i>)
DITP 3323	Database Administration (<i>Pentadbiran Pangkalan Data</i>)
DITP 2313	Database Programming (<i>Pengaturcaraan Pangkalan Data</i>)
DITP 3213	Software Engineering (<i>Kejuruteraan Perisian</i>)
DITM 3133	Digital Audio and Video Technology (<i>Teknologi Audio dan Video Digital</i>)
DITM 3143	Digital Media Design (<i>Rekabentuk Media Digital</i>)
DITM 3313	User Interface Design (<i>Rekabentuk Antaramuka Pengguna</i>)
DITM 3323	Introduction to Computer Games Programming (<i>Pengenalan Kepada Pengaturcaraan Permainan Komputer</i>)
DITS 3613	Basic Networking (<i>Asas Rangkaian</i>)
DITS 3623	Networking Routing (<i>Penghalaan Rangkaian</i>)
DITS 3633	Implementing and Administering Active Directory (<i>Perlaksanaan dan Pentadbiran Aktif Direktori</i>)
DITS 3643	Implementing and Administering Network Infrastructure (<i>Perlaksanaan Dan Pentadbiran Perkhidmatan Rangkaian</i>)
DITI 3113	Artificial Intelligence (<i>Kepintaran Buatan</i>)
DITI 3123	Logic Programming (<i>Pengaturcaraan Logik</i>)
DITI 3513	Artificial Intelligence in Robotic and Automation (<i>Kepintaran Buatan Dalam Robotik</i>)

Dan Automasi)

INDUSTRIAL TRAINING COMPONENTS (5 credits)

DITU 2343 Industrial Training (*Latihan Industri*)

DITU 2362 Industrial Training Report (*Laporan Latihan Industri*)

CURRICULUM STRUCTURE PER SEMESTER

Year One (Special Semester)

Course Code	Course Name	Component Module	Contact Hours		Credit	Pre-requisite
			Lecture	Lab		
DLHW 1012	Foundation English <i>Asas Bahasa Inggeris</i>	W	2	0	2	
DLHW 1032	Malaysian Studies <i>Pengajian Malaysia</i>	W	2	0	2	
DLHW 1722	Philosophy of Science & Technology <i>Falsafah Sains dan Teknologi</i>	W	2	0	2	
Total					6	

Year One (Semester I)

Course Code	Course Name	Component Module	Contact Hours		Credit	Pre-requisite
			Lecture	Lab		
DKK- ---1	Co-Curriculum I* <i>Ko-kurikulum I*</i>	W	0	3	1	
DITI 1213	Calculus <i>Kalkulus</i>	P	2	2	3	
DITP 1113	Programming I <i>Pengaturcaraan I</i>	P	2	2	3	
DITP 1333	Database <i>Pangkalan Data</i>	K	2	2	3	
DITS 1133	Computer Organization & Architecture <i>Organisasi dan Senibina Komputer</i>	K	2	2	3	
DITM 2113	Multimedia System <i>Sistem Multimedia</i>	K	2	2	3	
Total					16	

* This course can be taken in any semester. Please refer to Co-curriculum unit before register.

Year One (Semester II)

Course Code	Course Name	Component Module	Contact Hours		Credit	Pre-requisite
			Lecture	Lab		
DLHW 2422	English for Effective Communication <i>Bahasa Inggris untuk Komunikasi Berkesan</i>	W	1	2	2	
DITI 1223	Discrete Mathematics <i>Matematik Diskrit</i>	P	2	2	3	
DITP 2213	System Analysis and Design <i>Analisa dan Rekabentuk Sistem</i>	K	2	2	3	DITP 1333
DITP 1123	Programming II <i>Pengaturcaraan II</i>	K	2	2	3	DITP 1113
DITS 2213	Operating System <i>Sistem Pengoperasian</i>	K	2	2	3	DITS 1133
DITM 2123	Web Programming <i>Pengaturcaraan Web</i>	K	2	2	3	
Total					17	

Year Two (Semester I)

Course Code	Course Name	Component Module	Contact Hours		Credit	Pre-requisite
			Lecture	Lab		
DLHW 3432	English for Marketability <i>Bahasa Inggris untuk Kebolehpasaran</i>	W	2	0	2	
DLHW 1742	Leadership <i>Kepimpinan</i>	W	2	0	2	
DKK- ---1	Co-Curriculum II* <i>Ko-kurikulum II*</i>	W	0	3	1	
DITI 2213	Linear Algebra and Numerical Methods <i>Aljabar Linear dan Kaedah Berangka</i>	P	2	2	3	
DITP 2113	Data Structure and Algorithm <i>Struktur Data dan Algoritma</i>	K	2	2	3	DITP 1113, DITP 1123
DITP 3113	Object-oriented Programming <i>Pengaturcaraan Berorientasikan Objek</i>	K	2	2	3	DITP 1113
DITS 2313	Data Communication and Networking <i>Komunikasi Data dan Rangkaian</i>	K	2	2	3	
Total					17	

* This course can be taken in any semester. Please refer to Co-curriculum unit before register.

Year Two (Semester II)

Course Code	Course Name	Component Module	Contact Hours		Credit	Pre-requisite
			Lecture	Lab		
DTMW 1012	Fundamentals of Entrepreneurial Acculturation <i>Asas Pembudayaan Keusahawan</i>	W	1	2	2	
DITI 2233	Statistics and Probability <i>Statistik dan Kebarangkalian</i>	P	2	2	3	
DITU 3933	System Development Workshop <i>Bengkel Pembangunan Sistem</i>	P	0	3	3	DITP 2213
DITP 2123	Event-Based Programming <i>Pengaturcaraan Berpandukan Peristiwa</i>	K	2	2	3	DITP 1113
DIT- ----	Elective 1 <i>Elektif 1</i>	E	2	2	3	DITS 1133
DIT- ----	Elective 2 <i>Elektif 2</i>	E	2	2	3	
Total					17	

Year Two (Special Semester)

Course Code	Course Name	Component Module	Duration (weeks)	Credit	Pre-requisite
DITU 2343	Industrial Training <i>Latihan Industri</i>	P	10	2	
DITU 2362	Industrial Training Report <i>Statistik dan Kebarangkalian</i>	P	10	3	
Total				5	

Year Two (Semester II)

Course Code	Course Name	Component Module	Contact Hours		Credit	Pre-requisite
			Lecture	Lab		
DITU 3964	Diploma Project <i>Projek Diploma</i>	P	1**		4	
DITS 2413	Computer Security <i>Keselamatan Komputer</i>	K	2	2	3	DITS 2213
DIT- ----	Elective 3 <i>Elektif 3</i>	E	2	2	3	
DIT- ----	Elective 4 <i>Elektif 4</i>	E	2	2	3	
Total					13	

** Average official contact hours per week

Elective Modules

Below is the list of Elective courses that can be selected as part of the curriculum. Students can choose a minimum of FOUR (4) courses during the study to complete at least 12 credits.

List of elective courses offered can be changed from time to time in accordance with industry needs.

Course Code	Course Name	Contact Hours		Credit	Pre-requisite
		Lecture	Lab		
DITP 3253	Software Requirements and Design <i>Keperluan dan Rekabentuk Perisian</i>	2	2	3	
DITP 3263	Software Verification and Validation <i>Validasi dan Verifikasi Perisian</i>	2	2	3	DITP 3213
DITP 3273	Strategic Information System Planning <i>Perancangan Strategik Sistem Maklumat</i>	2	2	3	
DITP 3313	Database Design <i>Rekabentuk Pangkalan Data</i>	2	2	3	DITP 1333
DITP 3323	Database Administration <i>Pentadbiran Pangkalan Data</i>	2	2	3	DITP 1333
DITP 2313	Database Programming <i>Pengaturcaraan Pangkalan Data</i>	2	2	3	
DITP 3213	Software Engineering <i>Kejuruteraan Perisian</i>	2	2	3	
DITM 3133	Digital Audio and Video Technology <i>Teknologi Audio dan Video Digital</i>	2	2	3	
DITM 3143	Digital Media Design <i>Rekabentuk Media Digital</i>	2	2	3	
DITM 3313	User Interface Design <i>Rekabentuk Antaramuka Pengguna</i>	2	2	3	
DITM 3323	Introduction to Computer Games Programming <i>Pengenalan Kepada Pengaturcaraan Permainan Komputer</i>	2	2	3	
DITS 3613	Basic Networking <i>Asas Rangkaian</i>	2	2	3	DITS 2313
DITS 3623	Networking Routing <i>Penghalaan Rangkaian</i>	2	2	3	DITS 3613
DITS 3633	Implementing and Administering Active Directory <i>Perlaksanaan dan Pentadbiran Aktif Direktori</i>	2	2	3	DITS 2213
DITS 3643	Implementing and Administering Network Infrastructure <i>Perlaksanaan Dan Pentadbiran Perkhidmatan Rangkaian</i>	2	2	3	DITS 3633
DITI 3113	Artificial Intelligence <i>Kepintaran Buatan</i>	2	2	3	
DITI 3123	Logic Programming <i>(Pengaturcaraan Logik)</i>	2	2	3	
DITI 3513	Artificial Intelligence in Robotic and Automation <i>Kepintaran Buatan Dalam Robotik Dan Automasi</i>	2	2	3	

Third Language

Below is the list of Third Language courses. Students are encouraged to take ONE (1) Third Language in any semester during the study.

Course Code	Course Name	Contact Hours		Credit	Pre-requisite
		Lecture	Lab		
DLHL 1012	Malay I*	2	1	2	-
DLHL 1022	Malay II	2	1	2	DLHL 1012
DLHL 1112	Arabic I	2	1	2	-
DLHL 1122	Arabic II	2	1	2	DLHL 1112
DLHL 1212	Mandarin I	2	1	2	-
DLHL 1222	Mandarin II	2	1	2	DLHL 1212
DLHL 1312	Japanese I	2	1	2	-
DLHL 1322	Japanese II	2	1	2	DLHL 1312

* Only for International student