

**FACULTY OF INFORMATION AND COMMUNICATION TECHNOLOGY**  
**BACHELOR OF INFORMATION TECHNOLOGY (HONS) COMPUTER ENGINEERING - UCCT110101**  
**COURSE STRUCTURE GUIDE**

Year 1											
Year 1 Trimester 1				Year 1 Trimester 2				Year 1 Trimester 3			
LANGXXX3	NATIONAL LANGUAGE/ OTHER LANGUAGES	Compulsory	3.0	BCTFE04	COMPULSORY (LIBERAL ARTS ELECTIVES)	Elective	3.0	UBMM1011	SUN ZI'S ART OF WAR AND BUSINESS STRATEGIES	Compulsory	1.0
MPWE02	MPW ELECTIVE II	Compulsory	3.0	MPW2133	PENGAJIAN MALAYSIA	Compulsory	3.0	UCCE1033	ELECTRONIC DEVICES AND CIRCUITS	Major	3.0
UCCD1003	PROGRAMMING CONCEPTS AND DESIGN	Minor	3.0	UCCD1023	DATA STRUCTURES AND ALGORITHMS	Minor	3.0	UCCE1043	DIGITAL CIRCUITS AND SYSTEMS	Major	3.0
UCCE1013	CIRCUIT THEORY	Major	3.0	UCCM1123	MATHEMATICS II	Major	3.0	USCC10X2	CO-CURRICULAR UNITS	Compulsory	2.0
UCCE1023	DIGITAL FUNDAMENTALS	Major	3.0	UCCM1213	INTRODUCTORY STATISTICS	Major	3.0	Total Credit Hours		9.0	
UCCM1113	MATHEMATICS I	Major	3.0	UCCN1003	DATA COMMUNICATIONS AND NETWORKS	Minor	3.0	Total Credit Hours		9.0	
Total Credit Hours			18.0	Total Credit Hours			18.0	Pre-Requisite Unit(s) for UCCE1043			
LANGXXX3 CORE GROUP - Choose 1 Unit(s)				BCTFE04 ELECTIVE GROUP - Choose 1 Unit(s)				1. UCCE1023 - DIGITAL FUNDAMENTALS			
MPW2113 - BAHASA KEBANGSAAN (A)				UALE1083 - BASIC PROFESSIONAL WRITING				USCC10X2 CORE GROUP - Choose 1 Unit(s)			
* FOR MALAYSIAN ONLY, WITHOUT SPM-BM CREDIT				UALL3033 - PUBLIC SPEAKING AND ORAL PRESENTATION				USCC1012 - COMMUNICATION SKILLS (ORAL COMMUNICATION)			
MPW2123 - BAHASA KEBANGSAAN (B)				UAMG1043 - INTERPERSONAL COMMUNICATION							
** FOR NON-MALAYSIAN ONLY				UAPS2003 - INTRODUCTION TO SOCIOLOGY							
UALF1003 - INTRODUCTION TO FRENCH				UBMH1013 - ORGANISATION AND HUMAN RESOURCE							
*** IF EXEMPTED FROM MPW2113				UBMM1013 - MANAGEMENT PRINCIPLES							
UALJ2013 - INTRODUCTION TO JAPANESE				UBMM2023 - ORGANISATIONAL BEHAVIOUR							
*** IF EXEMPTED FROM MPW2113				Equivalent Unit(s) for UBMM2023							
UALM1003 - INTRODUCTION TO TAMIL LANGUAGE				UKMM2023 - ORGANISATIONAL BEHAVIOUR							
*** IF EXEMPTED FROM MPW2113				Pre-Requisite Unit(s) for UCCD1023							
UALT1003 - INTRODUCTION TO THAI LANGUAGE				1. UCCD1003 - PROGRAMMING CONCEPTS AND DESIGN							
*** IF EXEMPTED FROM MPW2113				Pre-Requisite Unit(s) for UCCM1123							
MPWE02 CORE GROUP - Choose 1 Unit(s)				1. UCCM1113 - MATHEMATICS I							
MPW2143 - PENGAJIAN ISLAM											
MPW2153 - PENDIDIKAN MORAL											

Year 2											
Year 2 Trimester 1				Year 2 Trimester 2				Year 2 Trimester 3			
BCTFE04	COMPULSORY (LIBERAL ARTS ELECTIVES)	Compulsory	3.0	BCTFE03	MINOR ELECTIVE	Minor	3.0	UCCE2013	SIGNALS AND SYSTEMS	Major	3.0
UCCC2013	OBJECT-ORIENTED PROGRAMMING	Minor	3.0	BCTFE03	MINOR ELECTIVE	Minor	3.0	UCCE2053	COMPUTER ORGANISATION AND ARCHITECTURE	Major	3.0
UCCE2033	ANALOGUE CIRCUIT FUNDAMENTALS	Major	3.0	UCCD3043	COMPUTER LAW AND ETHICS	Major	3.0	Total Credit Hours		6.0	
UCCE2043	BASIC MICROPROCESSOR	Major	3.0	UCCE2023	DIGITAL SYSTEMS DESIGN	Major	3.0				
UCCM2133	MATHEMATICS III	Major	3.0	UCCE2063	INTEGRATED CIRCUIT FUNDAMENTALS	Major	3.0				
Total Credit Hours			18.0	UCCE3033	EMBEDDED SYSTEMS DESIGN	Major	3.0				
				Total Credit Hours			18.0				
				BCTFE03 ELECTIVE GROUP - Choose 1 Unit(s)							
				UCCC2053 - OBJECT-ORIENTED MODELLING							

UCCN2003	TCP/IP INTERNETWORKING	Minor	3.0
Total Credit Hours			18.0
<b>BCTFE04 ELECTIVE GROUP - Choose 1 Unit(s)</b> <b>UAE1083</b> - BASIC PROFESSIONAL WRITING <b>UALL3033</b> - PUBLIC SPEAKING AND ORAL PRESENTATION <b>UAMG1043</b> - INTERPERSONAL COMMUNICATION <b>UAPS2003</b> - INTRODUCTION TO SOCIOLOGY <b>UBMH1013</b> - ORGANISATION AND HUMAN RESOURCE <b>UBMM1013</b> - MANAGEMENT PRINCIPLES <b>UBMM2023</b> - ORGANISATIONAL BEHAVIOUR <b>Equivalent Unit(s) for UBMM2023</b> <b>UKMM2023</b> - ORGANISATIONAL BEHAVIOUR <b>Pre-Requisite Unit(s) for UCCM2133</b> 1. <b>UCCM1123</b> - MATHEMATICS II <b>Pre-Requisite Unit(s) for UCCN2003</b> 1. <b>UCCN1003</b> - DATA COMMUNICATIONS AND NETWORKS			
<b>UCCC2063</b> - ALGORITHM ANALYSIS <b>UCCC3023</b> - ADVANCED ARTIFICIAL INTELLIGENCE <b>UCCD2033</b> - SOFTWARE AND PROJECT MANAGEMENT <b>UCCD2053</b> - ARTIFICIAL INTELLIGENCE <b>UCCD3033</b> - TECHNOPRENEURSHIP <b>UCCE2083</b> - EMBEDDED NETWORK DEVICES <b>UCCE3073</b> - COMPUTER VISION AND IMAGE PROCESSING <b>UCCM2123</b> - INTRODUCTORY NUMERICAL METHODS <b>UCCM2333</b> - GRAPH THEORY AND APPLICATIONS <b>UCCM3123</b> - OPERATIONS RESEARCH I <b>UCCM3134</b> - OPERATIONS RESEARCH II <b>UCCN2023</b> - FUNDAMENTALS OF WIRELESS COMMUNICATIONS <b>UCCN2103</b> - FUNDAMENTALS OF SYSTEM PROGRAMMING <b>UCCN3013</b> - WIRELESS AND MOBILE NETWORKING <b>UCCN3103</b> - NETWORK PROGRAMMING <b>Pre-Requisite Unit(s) for UCCE2083</b> 1. <b>UCCC2013</b> - OBJECT-ORIENTED PROGRAMMING <b>Pre-Requisite Unit(s) for UCCM2123</b> 1. <b>UCCM1123</b> - MATHEMATICS II <b>Pre-Requisite Unit(s) for UCCM3123</b> 1. <b>UCCM1123</b> - MATHEMATICS II <b>Pre-Requisite Unit(s) for UCCM3134</b> 1. <b>UCCM3123</b> - OPERATIONS RESEARCH I <b>Pre-Requisite Unit(s) for UCCN2103</b> 1. <b>UCCD1023</b> - DATA STRUCTURES AND ALGORITHMS <b>Pre-Requisite Unit(s) for UCCN3013</b> 1. <b>UCCN2023</b> - FUNDAMENTALS OF WIRELESS COMMUNICATIONS <b>Pre-Requisite Unit(s) for UCCN3103</b> 1. <b>UCCN2103</b> - FUNDAMENTALS OF SYSTEM PROGRAMMING <b>BCTFE03 ELECTIVE GROUP - Choose 1 Unit(s)</b> <b>UCCC2053</b> - OBJECT-ORIENTED MODELLING <b>UCCC2063</b> - ALGORITHM ANALYSIS <b>UCCC3023</b> - ADVANCED ARTIFICIAL INTELLIGENCE <b>UCCD2033</b> - SOFTWARE AND PROJECT MANAGEMENT <b>UCCD2053</b> - ARTIFICIAL INTELLIGENCE <b>UCCD3033</b> - TECHNOPRENEURSHIP <b>UCCE2083</b> - EMBEDDED NETWORK DEVICES <b>UCCE3073</b> - COMPUTER VISION AND IMAGE PROCESSING <b>UCCM2123</b> - INTRODUCTORY NUMERICAL METHODS <b>UCCM2333</b> - GRAPH THEORY AND APPLICATIONS <b>UCCM3123</b> - OPERATIONS RESEARCH I <b>UCCM3134</b> - OPERATIONS RESEARCH II <b>UCCN2023</b> - FUNDAMENTALS OF WIRELESS COMMUNICATIONS <b>UCCN2103</b> - FUNDAMENTALS OF SYSTEM PROGRAMMING <b>UCCN3013</b> - WIRELESS AND MOBILE NETWORKING <b>UCCN3103</b> - NETWORK PROGRAMMING <b>Pre-Requisite Unit(s) for UCCE2083</b> 1. <b>UCCC2013</b> - OBJECT-ORIENTED PROGRAMMING <b>Pre-Requisite Unit(s) for UCCM2123</b> 1. <b>UCCM1123</b> - MATHEMATICS II <b>Pre-Requisite Unit(s) for UCCM3123</b> 1. <b>UCCM1123</b> - MATHEMATICS II <b>Pre-Requisite Unit(s) for UCCM3134</b> 1. <b>UCCM3123</b> - OPERATIONS RESEARCH I <b>Pre-Requisite Unit(s) for UCCN2103</b> 1. <b>UCCD1023</b> - DATA STRUCTURES AND			

				ALGORITHMS <b>Pre-Requisite Unit(s) for UCCN3013</b> 1. <a href="#">UCCN2023</a> - FUNDAMENTALS OF WIRELESS COMMUNICATIONS <b>Pre-Requisite Unit(s) for UCCN3103</b> 1. <a href="#">UCCN2103</a> - FUNDAMENTALS OF SYSTEM PROGRAMMING							
Year 3											
Year 3 Trimester 1				Year 3 Trimester 2				Year 3 Trimester 3			
BCTFE01	MAJOR ELECTIVE	Major	3.0	BCTFE01	MAJOR ELECTIVE	Major	3.0	UCCE2506	INDUSTRIAL TRAINING	Major	6.0
BCTFE03	MINOR ELECTIVE	Minor	3.0	BCTFE01	MAJOR ELECTIVE	Major	3.0	Total Credit Hours			6.0
<a href="#">UCCD2103</a>	OPERATING SYSTEMS	Minor	3.0	BCTFE04	COMPULSORY (LIBERAL ARTS ELECTIVES)	Elective	3.0	<b>Pre-Requisite 54 credit hours earned for UCCE2506</b> (Including Univeristy Wide or LAN Subjects)			
UCCE3053	DIGITAL SIGNAL PROCESSING	Major	3.0	UCCE3506	PROJECT II	Major	6.0				
UCCE3503	PROJECT I	Major	3.0	Total Credit Hours			15.0				
Total Credit Hours			15.0	BCTFE01 ELECTIVE GROUP - Choose 1 Unit(s)							
<b>BCTFE01 ELECTIVE GROUP - Choose 1 Unit(s)</b> <a href="#">UCCE3013</a> - INTEGRATED CIRCUIT DESIGN <a href="#">UCCE3023</a> - ANALOGUE CIRCUIT DESIGN <a href="#">UCCE3043</a> - EMBEDDED COMPUTING <a href="#">UCCE3063</a> - INTELLIGENT TECHNIQUES FOR ENGINEERING APPLICATIONS <a href="#">UCCE3073</a> - COMPUTER VISION AND IMAGE PROCESSING <b>BCTFE03 ELECTIVE GROUP - Choose 1 Unit(s)</b> <a href="#">UCCC2053</a> - OBJECT-ORIENTED MODELLING <a href="#">UCCC2063</a> - ALGORITHM ANALYSIS <a href="#">UCCC3023</a> - ADVANCED ARTIFICIAL INTELLIGENCE <a href="#">UCCD2033</a> - SOFTWARE AND PROJECT MANAGEMENT <a href="#">UCCD2053</a> - ARTIFICIAL INTELLIGENCE <a href="#">UCCD3033</a> - TECHNOPRENEURSHIP <a href="#">UCCE2083</a> - EMBEDDED NETWORK DEVICES <a href="#">UCCE3073</a> - COMPUTER VISION AND IMAGE PROCESSING <a href="#">UCCM2123</a> - INTRODUCTORY NUMERICAL METHODS <a href="#">UCCM2333</a> - GRAPH THEORY AND APPLICATIONS <a href="#">UCCM3123</a> - OPERATIONS RESEARCH I <a href="#">UCCM3134</a> - OPERATIONS RESEARCH II <a href="#">UCCN2023</a> - FUNDAMENTALS OF WIRELESS COMMUNICATIONS <a href="#">UCCN2103</a> - FUNDAMENTALS OF SYSTEM PROGRAMMING <a href="#">UCCN3013</a> - WIRELESS AND MOBILE NETWORKING <a href="#">UCCN3103</a> - NETWORK PROGRAMMING <b>Pre-Requisite Unit(s) for UCCE2083</b> 1. <a href="#">UCCC2013</a> - OBJECT-ORIENTED PROGRAMMING <b>Pre-Requisite Unit(s) for UCCM2123</b> 1. <a href="#">UCCM1123</a> - MATHEMATICS II <b>Pre-Requisite Unit(s) for UCCM3123</b> 1. <a href="#">UCCM1123</a> - MATHEMATICS II <b>Pre-Requisite Unit(s) for UCCM3134</b> 1. <a href="#">UCCM3123</a> - OPERATIONS RESEARCH I <b>Pre-Requisite Unit(s) for UCCN2103</b> 1. <a href="#">UCCD1023</a> - DATA STRUCTURES AND ALGORITHMS <b>Pre-Requisite Unit(s) for UCCN3013</b> 1. <a href="#">UCCN2023</a> - FUNDAMENTALS OF WIRELESS COMMUNICATIONS <b>Pre-Requisite Unit(s) for UCCN3103</b> 1. <a href="#">UCCN2103</a> - FUNDAMENTALS OF SYSTEM PROGRAMMING				<b>BCTFE01 ELECTIVE GROUP - Choose 1 Unit(s)</b> <a href="#">UCCE3013</a> - INTEGRATED CIRCUIT DESIGN <a href="#">UCCE3023</a> - ANALOGUE CIRCUIT DESIGN <a href="#">UCCE3043</a> - EMBEDDED COMPUTING <a href="#">UCCE3063</a> - INTELLIGENT TECHNIQUES FOR ENGINEERING APPLICATIONS <a href="#">UCCE3073</a> - COMPUTER VISION AND IMAGE PROCESSING <b>BCTFE04 ELECTIVE GROUP - Choose 1 Unit(s)</b> <a href="#">UALE1083</a> - BASIC PROFESSIONAL WRITING <a href="#">UALL3033</a> - PUBLIC SPEAKING AND ORAL PRESENTATION <a href="#">UAMG1043</a> - INTERPERSONAL COMMUNICATION <a href="#">UAPS2003</a> - INTRODUCTION TO SOCIOLOGY <a href="#">UBMH1013</a> - ORGANISATION AND HUMAN RESOURCE <a href="#">UBMM1013</a> - MANAGEMENT PRINCIPLES <a href="#">UBMM2023</a> - ORGANISATIONAL BEHAVIOUR <b>Equivalent Unit(s) for UBMM2023</b> <a href="#">UKMM2023</a> - ORGANISATIONAL BEHAVIOUR							

REMARK: BACHELOR OF INFORMATION TECHNOLOGY (HONS) COMPUTER ENGINEERING 201101 Intake

NOTE: A pre-requisite group number represents one pre-requisite unit subject.

If a pre-requisite group number has more than one units, choose one unit out of a group.