

FACULTY OF ENGINEERING AND GREEN TECHNOLOGY
BACHELOR OF ENGINEERING (HONS) INDUSTRIAL ENGINEERING - UGIE100501
COURSE STRUCTURE GUIDE

Year 1																
Year 1 Trimester 1				Year 1 Trimester 2				Year 1 Trimester 3								
UCCM1203	PROBABILITY AND STATISTICS I	Major	3.0	LANGXXX3	NATIONAL LANGUAGE/ OTHER LANGUAGES	Major	3.0	UCCM1663	MATHEMATICS FOR ENGINEERING II	Major	3.0	UCCM2204	PROBABILITY AND STATISTICS II	Major	4.0	
UCCM1653	MATHEMATICS FOR ENGINEERING I	Major	3.0	UALE1073	ENGLISH FOR ENGINEERING	Major	3.0	UDPS1043	INTRODUCTION TO OPERATIONS RESEARCH	Major	3.0	UEME1143	DYNAMICS	Major	3.0	
UCCS1623	ENGINEERING COMPUTING	Major	3.0	Total Credit Hours			6.0	UGNA1073	FLUID MECHANICS	Major	3.0	Total Credit Hours			16.0	
UEME1132	STATICS	Major	2.0	<p>LANGXXX3 CORE GROUP - Choose 1 Unit(s)</p> <p>MPW2113 - BAHASA KEBANGSAAN (A) ** FOR MALAYSIAN ONLY, WITHOUT SPM-BM CREDIT</p> <p>MPW2123 - BAHASA KEBANGSAAN (B) *** FOR NON-MALAYSIAN ONLY</p> <p>UALC1003 - INTRODUCTION TO CHINESE LANGUAGE I ***WITHOUT KNOWLEDGE OF CHINESE LANGUAGE</p> <p>UALC1013 - INTRODUCTION TO CHINESE LANGUAGE II ***HAVE CREDIT FOR CHINESE LANGUAGE IN UPSR AND PMR</p> <p>UALC1023 - INTRODUCTION TO CHINESE LANGUAGE III ***HAVE CREDIT FOR CHINESE LANGUAGE IN SPM,STPM OR UEC</p> <p>UALF1003 - INTRODUCTION TO FRENCH *** IF EXEMPTED FROM MPW2113</p> <p>UALJ2013 - INTRODUCTION TO JAPANESE *** IF EXEMPTED FROM MPW2113</p> <p>UALM1003 - INTRODUCTION TO TAMIL LANGUAGE *** IF EXEMPTED FROM MPW2113</p> <p>UALT1003 - INTRODUCTION TO THAI LANGUAGE *** IF EXEMPTED FROM MPW2113</p>												
UGEA1313	BASIC ELECTRONICS	Major	3.0	<p>Pre-Requisite Unit(s) for UCCM1663</p> <p>1. UCCM1653 - MATHEMATICS FOR ENGINEERING I</p> <p>Equivalent Unit(s) for UCCM1663</p> <p>UECM1663 - MATHEMATICS FOR ENGINEERING II</p> <p>Pre-Requisite Unit(s) for UCCM2204</p> <p>1. UCCM1203 - PROBABILITY AND STATISTICS I</p> <p>Equivalent Unit(s) for UCCM2204</p> <p>UECM1223 - PROBABILITY AND STATISTICS II</p> <p>Pre-Requisite Unit(s) for UECM1223</p> <p>1. UECM1203 - PROBABILITY AND STATISTICS I</p> <p>Equivalent Unit(s) for UEME1143</p> <p>UEMB2143 - DYNAMICS</p>												
Total Credit Hours			14.0													

Year 2																
Year 2 Trimester 1				Year 2 Trimester 2				Year 2 Trimester 3								
UGIA1023	INTRODUCTION TO MATERIAL SCIENCE	Major	3.0	MPW2133	PENGAJIAN MALAYSIA	Compulsory	3.0	UDPS3113	QUEUING MODELS AND SIMULATION	Major	3.0	UEME1233	MANUFACTURING TECHNOLOGY I	Major	3.0	
UGIA2013	PRINCIPLES OF INDUSTRIAL ENGINEERING	Major	3.0	MPWE02	MPW ELECTIVE II	Compulsory	3.0	UGIA2053	SYSTEMS MODELING AND ANALYSIS	Major	3.0	UKMM1043	BASIC ECONOMICS, ACCOUNTING AND MANAGEMENT	Major	3.0	
UGIA2023	SERVICE ENGINEERING AND MANAGEMENT	Major	3.0	Total Credit Hours			6.0									
UGIA2033	INVENTORY CONTROL ANALYSIS AND MODELING	Major	3.0	<p>MPWE02 ELECTIVE GROUP - Choose 1 Unit(s)</p> <p>MPW2143 - PENGAJIAN ISLAM</p> <p>MPW2153 - PENDIDIKAN MORAL</p>												

UGIA2113	THERMODYNAMICS FOR INDUSTRIAL ENGINEERING	Major	3.0		Total Credit Hours	12.0
Total Credit Hours			15.0		Pre-Requisite Unit(s) for UDPS3113 1. UDPS1043 - INTRODUCTION TO OPERATIONS RESEARCH	

Year 3

Year 3 Trimester 1				Year 3 Trimester 2				Year 3 Trimester 3					
UEGE3114	INDUSTRIAL TRAINING	Major	4.0	UEMK3423	OCCUPATIONAL SAFETY AND MANAGEMENT	Major	3.0	UDPS2043	PROJECT SCHEDULING AND NETWORK MODELING	Major	3.0	<p>Pre-Requisite 60 credit hours earned for UEGE3114 (Including Univeristy Wide or LAN Subjects)</p>	<p>Pre-Requisite Unit(s) for UDPS2043 1. UDPS1043 - INTRODUCTION TO OPERATIONS RESEARCH</p> <p>Pre-Requisite Unit(s) for UGIA3033 1. UGIA2013 - PRINCIPLES OF INDUSTRIAL ENGINEERING</p> <p>Pre-Requisite Unit(s) for UGIA3043 1. UGIA2053 - SYSTEMS MODELING AND ANALYSIS</p> <p>USCC1XXX ELECTIVE GROUP - Choose 1 Unit(s) USCC1012 - COMMUNICATION SKILLS (ORAL COMMUNICATION) USCC1042 - TEAMBUILDING AND LEADERSHIP SKILLS USCC1052 - EMOTIONAL INTELLIGENCE AT THE WORKPLACE USCC1062 - PROFESSIONAL ETHICS AND MANNERS</p>
Total Credit Hours			4.0	UGIA3273	COMPUTER AIDED DESIGN AND MANUFACTURING	Major	3.0	UGIA3033	DESIGN FUNDAMENTALS FOR INDUSTRIAL ENGINEERING	Major	3.0		
Total Credit Hours			6.0	Total Credit Hours			6.0	UGIA3043	SYSTEMS DESIGN AND INTEGRATION	Major	3.0		
Total Credit Hours			16.0					UGIA3892	INDUSTRIAL LABORATORY	Major	2.0		
								UGIA4053	SYSTEMS OPERATIONS PLANNING, SCHEDULE & CONTROL	Major	3.0		
								USCC1XXX	CO-CURRICULUM	Compulsory	2.0		
								Total Credit Hours			16.0		

Year 4

Year 4 Trimester 1				Year 4 Trimester 2				Year 4 Trimester 3				
UEEA4913	PROJECT	Major	3.0	UEME4243	ENGINEER IN SOCIETY	Major	3.0	UBMM1011	SUN ZI'S ART OF WAR AND BUSINESS STRATEGIES	Major	1.0	
UEME4423	MANUFACTURING TECHNOLOGY II	Major	3.0	UGIA4043	FACILITY PLANNING	Major	3.0	UEEA4913	PROJECT	Major	3.0	
UGEA4393	QUALITY AND RELIABILITY ENGINEERING	Major	3.0	Total Credit Hours		6.0		UEEG2113	LAW FOR ENGINEERS	Major	3.0	
UGIA4013	SYSTEMS PERFORMANCE EVALUATION AND BENCHMARKING	Major	3.0	Pre-Requisite Unit(s) for UGIA4043								
UGIA4073	ENGINEERING AND SERVICE ECONOMICS	Major	3.0	1. UGIA4053 - SYSTEMS OPERATIONS PLANNING, SCHEDULE & CONTROL								
Total Credit Hours			15.0	Total Credit Hours								13.0
Pre-Requisite 90 credit hours earned for UEEA4913				Pre-Requisite 90 credit hours earned for UEEA4913								
(Including Univeristy Wide or LAN Subjects)				(Including Univeristy Wide or LAN Subjects)								
Equivalent Unit(s) for UEEA4913				Equivalent Unit(s) for UEEA4913								
UEEL4153 - PROJECT				UEEL4153 - PROJECT								
Pre-Requisite Unit(s) for UEME4423				Pre-Requisite Unit(s) for UEME4423								
1. UEME1233 - MANUFACTURING TECHNOLOGY I				UGBIE01 ELECTIVE GROUP - Choose 1 Unit(s) UDPS2013 - NUMERICAL METHODS UDPS2033 - SAMPLE SURVEY AND SAMPLING TECHNIQUES UDPS2143 - DESIGN AND ANALYSIS OF EXPERIMENT UDPS3123 - TIME SERIES ANALYSIS UDPS3133 - MULTIVARIATE ANALYSIS UGBIE02 ELECTIVE GROUP - Choose 1 Unit(s) UBMH1013 - ORGANISATION AND HUMAN RESOURCE UEME4253 - PROJECT MANAGEMENT UGIA4093 - QUALITY SYSTEMS MANAGEMENT								

REMARK: BACHELOR OF ENGINEERING (HONS) INDUSTRIAL ENGINEERING (201005 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.