

4.9.1. CURRICULUM STRUCTURE- BACHELOR OF ENGINEERING (HONOURS) (CHEMICAL ENGINEERING)

TYPE	CATEGORY	100 LEVEL		200 LEVEL		300 LEVEL		EKC 395/5 I N D U S T R I A L  T R A I N I N G  10 W E E K S	400 LEVEL							
		SEMESTER I	SEMESTER 2	SEMESTER I	SEMESTER 2	SEMESTER I	SEMESTER 2		SEMESTER I	SEMESTER 2						
C O R E	E N G I N E E R I N G  C O R E	EMM 101/3 Engineering Mechanics	M I D S E M E S T E R  B R E A K	EEU 104/3 Electrical Technology	L O N G  B R E A K	EKC 212/4 Fluid Flow For Chemical Engineering	M I D S E M E S T E R  B R E A K	EKC 314/3 Transport Phenomena	L O N G  B R E A K	EKC 316/4 Separation Processes	I N D U S T R I A L  T R A I N I N G  10 W E E K S	EKC 451/4 Process Design And Analysis	M I D S E M E S T E R  B R E A K	EKC 453/4 Plant Design And Economics		
		EML 101/2 Engineering Practice		EUM 114/3 Advanced Engineering Calculus		EKC 214/3 Energy Balance		EKC 222/3 Chemical Engineering Thermodynamics		EKC 336/3 Chemical Reaction Engineering		EKC 338/4 Reactor Design And Analysis		EKC 499/2 Final Year Project		EKC 499/4 Final Year Project
		EUM 113/3 Engineering Calculus		EKC 108/4 Physical And Analytical Chemistry		EKC 217/3 Mass Transfer		EUP 222/3 Engineers In Society		EKC 361/4 Process Dynamics And Control		EKC 367/3 Plant Safety				
		EBB 113/3 Engineering Materials		EKC 111/3 Mass Balance		EKC 246/3 Computer Programming And Applications		EKC 245/3 Mathematical Methods For Chemical Engineering		EKC378/3 Environmental Engineering And Management						
		EKC 107/3 Organic Chemistry		EKC 109/2 Introduction To Project Management		EKC 271/3 Biotechnology For Engineers										
		EKC 157/2 Chemical Engineering Drawing														
	L A B					EKC 291/2 Chemical Engineering Lab. 1			EKC 394/2 Chemical Engineering Lab. II	EKC 493/2 Chemical Engineering Lab. III						
		16		15		16		13		13	5	8		8	108	
UNIVERSITY REQUIREMENTS			LKM 400 Malay Language (2 Units)  WUS 101 (2 Units) Entrepreneurship		LPS 300 (2 Units) English Language For Academic		HTU 223 (2 Units) Islamic Civilization And Asian Civilization  SHE 101 (2 Units) Ethnic study		LSP 404 (2 Units) English Language For Technical And Engineers		Co-curriculum/ Options (3 Units)		Co-curriculum/ Options		Co-curriculum/ Options	15
E L E C T I V E										EKC 376/3 Downstream Processing Of Biochemical And Pharmaceutical Products		EKC 475/3 Waste Water Engineering		EKC 462/3 Advanced Control Systems For Industrial Processes		
										EKC 377/3 Renewable And Alternative Energies		EKC 483/3 Petroleum And Gas Processing Engineering		EKC 463/3 Advanced Process Safety Engineering		
																12
											<b>OVERALL TOTAL FOR CONFERRAL OF DEGREE</b>				<b>135</b>	

Note: University Requirements 15 units  
 Electives 12 units  
 EKC 499 – 2 semester workload: Semester I : 2 units  
 Semester II: 4 units