

**STRUKTUR PROGRAM DAN JUMLAH KREDIT KEPERLUAN PROGRAM  
PROGRAM SARJANA MUDA KEJURUTERAAN MEKANIKAL (ZK08)**

Jumlah keperluan kredit yang perlu dipenuhi untuk bergraduasi adalah seperti mana jadual di bawah dan pengajian yang perlu diikuti adalah lapan (8) semester lazim. Pecahan kursus yang perlu diambil adalah seperti berikut:

KURSUS	KREDIT
<b>Kursus Universiti:</b>	
i. <b>Kursus Teras Universiti</b>	28
ii. <b>Elektif Universiti</b>	
<b>Kursus Teras Program :</b>	
i. <b>Teras Program</b>	98
ii. <b>Teras Fakulti</b>	
<b>Kursus Elektif Program</b>	9
<b>JUMLAH KREDIT UNTUK BERGRADUAT</b>	<b>135</b>

**KURSUS TERAS PROGRAM  
PROGRAM SARJANA MUDA KEJURUTERAAN MEKANIKAL (ZK08)**

**SENARAI KURSUS TERAS PROGRAM YANG PERLU DIPENUHI (80 KREDIT) :**

CODE	COURSE	CREDIT
EEE 1012	Introduction to Electrical Engineering	2
EEE 2022	Electronics	2
EMM 3402	Instrumentations	2
EMM 3413	Control Engineering	3
EMD 4713	Capstone Project	3
EMD 3703	Mechanical Engineering Design	3
EML 3822	Engineering Laboratories	2
EML 3832	Advance Engineering Laboratories	2
EMM 1213	Engineering Mechanics (Statics)	3
EMM 2223	Dynamics	3
EMM 3233	Mechanics of Machines	3
EMM 3243	Vibration	3
EMM 2173	Materials Engineering	3
EMM 2313	Strength of Materials I	3
EMM 2323	Strength of Materials II	3
EMM 4433	Computer Aided Engineering (CAE)	3

EMM 2513	Thermodynamics I	3
EMM 3503	Thermodynamics II	3
EMM 3512	Heat Transfer	2
EMM 2613	Fluid Mechanics I	3
EMM 3603	Fluid Mechanics II	3
EMM 3314	Industrial Training	4
EMP 1111	Workshop Practices	1
EMP 3113	Manufacturing Technology	3
EMP 4182	Engineering Management	2
EMM 4902	Engineers in Society	2
EMP 4172	Operations Management	2
EMT 4752	Final Year Project I	2
EMT 4754	Final Year Project II	4
EMP 1153	Mechanical Drawing	3

**KURSUS ELEKTIF PROGRAM  
PROGRAM SARJANA MUDA KEJURUTERAAN MEKANIKAL (ZK08)**

**SENARAI KURSUS ELEKTIF  
PROGRAM SARJANA MUDA KEJURUTERAAN MEKANIKAL (9 KREDIT)**

<b>CODE</b>	<b>COURSE</b>	<b>CREDIT</b>
<i>MECHANICAL</i>		
EME 4163	Composite Materials	3
EME 4233	Synthesis and Analysis of Mechanisms	3
EME 4523	Air-Conditioning and Refrigeration	3
EME 4613	Fluid Power Technology	3
EME 4623	Turbomachinery	3
EME 4913	Non-Destructive Testing	3
EME 4923	Tribology	3
EME 4293	Maintenance Engineering	3

<i>AUTOMATIVE</i>		
EME 4243	Vehicle Dynamics and Handling	3
EME 4323	Vehicle System and Structure	3
EME 4533	Internal Combustion Engine Performance	3
<i>AERONAUTICAL</i>		
EME 4333	Aircraft Systems and Structure	3
EME 4543	Aircraft Propulsion	3
EME 4633	Aerodynamics and Flight Mechanics	3
<i>MARINE TECHNOLOGY</i>		
EME 4553	Marine Engineering System	3
EME 4193	Ship Maintenance System	3
EME 4343	Ship Design and Structures	3

**STRUKTUR KURIKULUM  
PROGRAM SARJANA MUDA KEJURUTERAAN MEKANIKAL (ZK08)**

SEMESTER 1				SEMESTER 2			
Code	Course	Credit	Pre-requisite	Code	Course	Credit	Pre-requisite
LAN 1022	Malaysian Nationhood	2	-	DUS 1042	Military Law	2	
LAN 1012	Islamic and Asian Civilizations	2	-	LAN 1032	Ethnic Relationship	2	-
LEL 1012	English for Academic Writing	2	-	DUM 2062	Effective Leadership	2	-
EFA 1103	Engineering Mathematics I (Calculus and Linear Algebra)	3	-	EFA 1203	Engineering Mathematics II (Differential Equation and Transform)	3	-
EEE 1012	Introduction to Electrical Engineering	2	-	EFC 1103	Computing I (C & C++)	3	-
EMP 1111	Workshop Practices	1	-	EMP 1153	Mechanical Drawing	3	
EMM 1213	Engineering Mechanics (Statics)	3	-	EMM 2223	Dynamics	3	EMM 1213
<b>TOTAL</b>		<b>15</b>		<b>TOTAL</b>		<b>18</b>	

SEMESTER 3				SEMESTER 4			
Code	Course	Credit	Pre-requisite	Code	Course	Credit	Pre-requisite
LEL 1022	English for Oral Communication	2	-	DUS 1062	Military History	2	
DUS 2022	Introduction to Strategic Studies	2		DUS 2052	Law of Armed Conflict	2	
LAN 1042	Basic Entrepreneurship	2	-	EFA 2213	Engineering Mathematics IV (Statistics)	3	-
EMM 2513	Thermodynamics I	3	-	EFC2203	Numerical Method	3	-
EMM 2173	Materials Engineering	3	-	EMM 2323	Strength of Materials II	3	EMM 2313
EMM 2313	Strength of Materials I	3	EMM 1213	EEE 2022	Electronics	2	-
EFA 2103	Engineering Mathematics IIIA (Complex Variable and Vector)	3		EMM 2613	Fluid Mechanics I	3	EMM 1213
<b>TOTAL</b>		<b>18</b>		<b>TOTAL</b>		<b>18</b>	

SEMESTER 5				SEMESTER 6			
Code	Course	Credit	Pre-requisite	Code	Course	Credit	Pre-requisite
LFL1XX2	Foreign Language I	2	-	QKS 3621/ PLS xxxx/ QKx xxxx	Co-Curriculum	2	
EML 3822	Engineering Laboratories	2	-	LFL1XX2	Foreign Language II	2	
EMM 3233	Mechanics of Machines	3	EMM2223	EML 3832	Advance Engineering Laboratories	2	EML 3822
EMM 3503	Thermodynamics II	3	EMM 2513	EMM 3413	Control Engineering	3	EMM1223 EEE 2022 EFA 1203
EMM 3603	Fluid Mechanics II	3	EMM2613	EMD 3703	Mechanical Engineering Design	3	EMM 2323 EMM 1223
EMM 3402	Instrumentation	2	-	EMM 3243	Vibration	3	EMM 1223
EMP 3113	Manufacturing Technology	3	EMP1111	EMM 3512	Heat Transfer	2	EMM 3503
<b>TOTAL</b>		<b>18</b>		<b>TOTAL</b>		<b>17</b>	

SEMESTER 6 (INTER-SESI)			
Code	Course	Credit	Pre-requisite
EMM 3314	Industrial Training	4	***
<b>TOTAL</b>		<b>4</b>	

\*\*\* EMM3503, EMM3303, EMM3603, EMM3233

SEMESTER 7				SEMESTER 8			
Code	Course	Credit	Pre-requisite	Code	Course	Credit	Pre-requisite
EMT 4752	Final Year Project I	2	****	EMT 4754	Final Year Project II	4	EMT4752
EMM 4433	Computer Aided Engineering	3	-	EMM4902	Engineers in Society	2	-
EMD 4713	Capstone Project	3	EMD 3703	EMP4172	Operations Management	2	-
EMP4182	Engineering Management	2	-	EME 4XX3	Elective II	3	-
EME 4XX3	Elective I	3	-	EME 4XX3	Elective III	3	-
<b>TOTAL</b>		<b>13</b>		<b>TOTAL</b>		<b>14</b>	