

**STRUKTUR KURSUS DAN JUMLAH KREDIT KEPERLUAN PROGRAM
PROGRAM SARJANA MUDA KEJURUTERAAN ELEKTRIK DAN ELEKTRONIK
(KUASA) (ZK50)**

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

KURSUS	KREDIT
Teras Universiti	26
Teras Fakulti	18
Teras Program	84
Elektif Program	6
Elektif Universiti (Wajib)	2
JUMLAH KREDIT UNTUK BERGRADUAT	136
Elektif Universiti	4

**KURSUS TERAS PROGRAM
PROGRAM SARJANA MUDA KEJURUTERAAN ELEKTRIK DAN ELEKTRONIK
(KUASA) (ZK50)**

SENARAI KURSUS TERAS PROGRAM YANG PERLU DIPENUHI (84 KREDIT) :

COURSE CODE	COURSE	CREDIT
EEE 1202	Engineering Application (Laboratory)	2
EEE 1213	Digital Electronics	3
EEE 1223	Circuit Analysis I	3
EEE 2113	Microprocessor & Microcomputer	3
EEE 2123	Circuit Analysis II	3
EEE 2132	Electrical and Electronic Engineering Laboratory I	2
EEE 2213	Analog Electronics & Devices	3
EEE 2223	Measurement & Instrumentation	3
EEE 2233	Signal & System	3

EEE 2242	Electrical and Electronic Engineering Laboratory II	2
EEE 3113	System Design	3
EEE 3123	Analog Circuit and Device	3
EEE 3133	Electromagnetic Fields and Waves	3
EEE 3142	Electrical and Electronic Engineering Laboratory III	2
EEE 3213	Control Engineering	3
EEE 3223	Principles of Communication	3
EEE 3233	Power Systems	3
EEE 3243	Digital Design	3
EEE 3314	Industrial Training	4
EEE 4103	Engineering Management	3
EEE 4142	Final Year Project I	2
EEE 4203	Engineers in Community	3
EEE 4214	Final Year Project II	4
EEP 3213	Electrical Drives	3
EEP 3243	Electric Machines	3
EEP 4113	Advanced Power Systems	3
EEP 4123	High Voltage Engineering	3
EEP 4133	Power Electronics	3
EMM 2323	Engineering Mechanics	3

**KURSUS ELEKTIF PROGRAM
PROGRAM SARJANA MUDA KEJURUTERAAN ELEKTRIK DAN ELEKTRONIK
(KUASA) (ZK50)**

COURSE CODE	ELECTIVE PROGRAMME (6 CREDITS)	CREDIT
EEE 5223	Control System Design	3
EEP 5213	Renewable Energy	3
EEP 4223	Power System Economics	3
EEP 5223	Power System Protection	3
EEP 5243	Electrical Condition Monitoring	3
EEP 5253	Power Utilization	3
EEP 5263	Artificial Intelligent for Power Systems	3

**STRUKTUR KURIKULUM
PROGRAM SARJANA MUDA KEJURUTERAAN ELEKTRIK DAN ELEKTRONIK
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SEMESTER 1				SEMESTER 2			
Code	Course	Credit	Pre-Requisite	Code	Course	Credit	Pre-Requisite
DUS 1062	Military History	2		DUS 2012	Military Law	2	
ALK xxxx/ PLSxxxx/ Qxx 1xx2	PALAPES / ALK / Co-curriculum	2		LAN 1032	Ethnic Relation	2	
LAN 1012	Islamic and Asian Civilizations	2		EFA 1203	Engineering Mathematics II (Differential Equations and Transform)	3	
LAN 1022	Malaysian Nationhood	2		EEE 1202	Engineering Application (Laboratory)	2	
LEL 1012	English For Academic Writing	2		EEE 1213	Digital Electronics	3	
EFA 1103	Engineering Mathematics I (Calculus and Linear Algebra)	3		EEE 2123	Circuit Analysis II	3	EEE1223 EFA1203
EFC 1103	Computing I (C and C++)	3		EEE 2223	Measurement and Instrumentation	3	
EEE 1223	Circuit Analysis I	3					
TOTAL		19		TOTAL		18	

* Diambil oleh pelajar awam sahaja (termasuk kursus elektif Universiti)

** Diambil oleh pegawai kadet dan pelajar palapes sahaja (termasuk kursus elektif Universiti)

INTER-SESI 1			
Code	Course	Credit	Pre-Requisite
ALK xxxx/ PLSxxxx	PALAPES / ALK	4	
TOTAL		4	

SEMESTER 3				SEMESTER 4			
Code	Course	Credit	Pre-Requisite	Code	Course	Credit	Pre-Requisite
DUS 2052	Law of Armed Conflict	2		LAN 1042	Basic Entrepreneurship	2	
LEL 1022	English for Oral Communication	2		EFA 2213	Engineering Mathematics IV (Statistics)	3	
EFC 2103	Computing II (Numerical Methods and Engineering Softwares)	3		EEE 3123	Analog Circuit and Device	3	EEE 2213
EFA 2103	Engineering Mathematics IIIA (Complex Variable and Vector)	3		EEE 2233	Signal & System	3	EEE 2123
EEE 2213	Analog Electronics & Devices	3	EEE2123	EMM 2323	Engineering Mechanics	3	
EEE 2132	Electrical and Electronic Engineering Laboratory I	2		LFL1XX2	Foreign Language I	2	
EEE 2113	Microprocessor and Microcomputer	3	EEE1213				
TOTAL		18		TOTAL		16	

SEMESTER 5				SEMESTER 6			
Code	Course	Credit	Pre-Requisite	Code	Course	Credit	Pre-Requisite
LFL 1XX2	Foreign Language II	2		DUS 2022	Introduction to Strategic Studies	2	
EEP 3243	Electric Machines	3		EEP 4133	Power Electronics	3	
EEE 2242	Electrical and Electronic Engineering Laboratory II	2	EEE 2132	EEE 3142	Electrical and Electronic Engineering Laboratory III	2	EEE 2242
EEE 3223	Principles of Communication	3	EEE 2233	EEE 3113	System Design	3	EEE 2213 EEE 2113
EEE 3243	Digital Design	3	EEE1213	EEE 3233	Power Systems	3	EEE 2123
EEE 3133	Electromagnetic Fields and Waves	3	EFA2103	EEE 3213	Control Engineering	3	EEE 2233
TOTAL		16		TOTAL		16	

SEMESTER 6 (INTER-SESION)			
Code	Course	Credit	Pre-Requisite
EEE 3314	Industrial Training	4	***
JUMLAH		4	

*** Memenuhi 60 jam kredit lulus

SEMESTER 7				SEMESTER 8			
Code	Course	Credit	Pre-Requisite	Code	Course	Credit	Pre-Requisite
EEE 4142	Final Year Project I	2	**	EEE 4214	Final Year Project II	4	EEE 4142
EEP 4113	Advanced Power Systems	3	EEE 3233	EEE 4203	Engineers In Community	3	
EEP 3213	Electrical Drives	3	EEP 3243	EEE 4103	Engineering Management	3	
EEP4123	High Voltage Engineering	3	EEE 3233	EEP 5XX3	Elective II	3	
EEP 5XX3	Elective I	3					
DUM 2062	Organizational Leadership	2					
JUMLAH		16		JUMLAH		13	

** Memenuhi 60 jam kredit lulus dan lulus EEE3113