

SCHOOL OF ELECTRICAL AND ELECTRONIC ENGINEERING

LIST OF COURSES FOR SEMESTER 1, ACADEMIC SESSION 2026/2027

NO	CODE / TITLE OF COURSES	UNIT	CW:EW	CW DISTRIBUTION	%	ACADEMIC STAFF
LEVEL 100						
1.	EEE105: Teori Litar I [T] (Circuit Theory I)	3	40:60	Assignment Test	20 20	Dr. Nor Azlin Ghazali* Prof. Ir. Dr. Nor Ashidi Mat Isa Ts. Dr. Nur Zatil Ismah Hashim (EP)* Dr. Muthukannan Muruges (EP)
2.	EEE123: Pengaturcaraan Komputer untuk Jurutera [T] (Computer Programming for Engineers)	3	100:0	Programming Project Test	20 30 50	Dr. Ahmad Nazri Ali* Dr. Nor Rizuan Mat Noor Dr. Amjad Ali Amjad (EP)* Dr. Tan Weng Hooi (EP)
3.	EEM102: Amalan Kejuruteraan Mekatronik [T] (Mechatronic Engineering Practice) (For mechatronic engineering students)	2	100:0	Assignment Practical Practical report Project Test	20 20 20 20 20	Dr. Shaili Falina Mohd Sukri* Dr. Selva Kumar Mariappan
4.	EUM113: Kalkulus Kejuruteraan [T] (Engineering Calculus)	3	40:60	Assignment Quiz Test	20 6 14	AP Dr. Dzati Athiar Ramli* Dr. Aeizaal Azman Abdul Wahab Dr. Muthukannan Muruges (EP)* Dr. Amjad Ali Amjad (EP)
5.	EBB113: Bahan Kejuruteraan [T] (Engineering Material) (For electrical and electronic engineering students)	3	40:60	Assignment Quiz Test	20 10 10	Offered by PPKBSM AP Ir. Dr. Mohamed Fauzi Packeer Mohamed (EP) Ts. Dr. Nur Zatil Ismah Hashim (EP)
6.	EMD111: Lukisan Kejuruteraan dan Reka Bentuk Berbantuan Komputer [T] (Engineering Drawing and Computer Aided Design) (For mechatronic engineering students)	2	100:0	Assignment Practical Training Project Test	10 45 15 30	Offered by PPKM
7.	EMM101: Mekanik Kejuruteraan [T] (Engineering Mechanics) (For electrical and electronic engineering students)	3	40:60	Assignment Test	20 20	Offered by PPKM Ir. Dr. Mohamad Tarmizi Abu Seman (EP) Dr. Tan Weng Hooi (EP)
8.	LKM100: Bahasa Malaysia I [U] (Malay Language I) (For international students)	2	60:40	Oral Oral & listening Quiz Reading & writing	30 10 10 10	Offered by School of Languages, Literacies and Translation
9.	SHE103E: Malaysian Citra I (For International Student - Mechatronic)	2				Offered by PP Ilmu Kemanusiaan AP Ir. Dr. Rosmiwati Mohd Mokhtar* (Coordinator)

10.	WAR122: Integriti dan Anti Rasuah [U] (<i>Integrity and Anti-Corruption</i>) (For Malaysian Students)	2	100:0	Attendance Involvement & Planning Presentation Report	10 50 30 10	Offered by Co-Curriculum Centre AP Ir. Dr. Mohamed Fauzi Packeer Mohamed (<i>Coordinator</i>)
LEVEL 200						
11.	EEE208: Teori Litar II [T] (<i>Circuit Theory II</i>)	3	40:60	Assignment Quiz Test	30 5 5	AP. Dr. Patrick Goh Kuan Lye* Ts. Dr. Siti Fatimah Abd Rahman
12.	EEE228: Isyarat dan Sistem [T] (<i>Signal and System</i>)	3	40:60	Assignment Quiz Test	30 3 7	Dr. Hussein Ali Mohammed Shutari* AP Dr. Zuraini Dahari
13.	EEE231: Makmal Elektronik Digit [T] (<i>Digital Electronics Laboratory</i>)	3	100:0	Practical report Project Test	40 30 30	AP Dr. Jagadheswaran Rajendran* Prof. Ir. Dr. Widad Ismail AP Dr. Patrick Goh Kuan Lye Dr. Hussein Ali Mohammed Shutari Dr. Ummy Kalsom Noor Din Mr. Zulfiqar Ali Abd Aziz
14.	EEE236: Analisis Kompleks untuk Jurutera [T] (<i>Complex Analysis for Engineers</i>) ~EEE232/3: Analisis Kompleks [T]~	2	40:60	Assignment Quiz Test	25 5 10	Dr. Ramya Ramaswamy* AP Dr. Dzati Athiar Ramli
15.	EEE244: Elektronik Analog I [T] (<i>Analog Electronic I</i>) ~EEE241/3: Elektronik Analog I [T]~	4	40:60	Assignment Quiz Test	30 4 6	AP Dr. Mohd Tafir Mustaffa* Dr. Nur Syahadah Yusof
16.	EEM201: Prinsip & Mekanik Bahan [T] (<i>Principles & Mechanics of Materials</i>) ~EEM101/3: Prinsip & Mekanik Bahan [T]~	3	40:60	Assignment Quiz Test	30 5 5	Ir. Dr. Mohamad Tarmizi Abu Seman* Dr. Ummy Kalsom Noor Din
17.	EEM223: Termobendalir [T] (<i>Thermofluids</i>)	3	40:60	Assignment Quiz Test	30 5 5	Dr. Abdul Sattar Din* Dr. Suhardi Azliy Junoh
18.	EEM242: Makmal Mekatronik 1 [T] (<i>Mechatronic Laboratory 1</i>)	2	100:0	Practical report Practical test Project Quiz	30 25 40 5	Dr. Nor Azizah Mohd Yusoff* AP Dr. Nur Syazreen Ahmad Dr. Nazirah Othman Dr. Usman Bature Isyaku
19.	HFF225: Falsafah dan Isu Semasa [U] (<i>Philosophy and Current Issues</i>)	2	100:0	Essay Presentation Quiz Test	30 30 10 30	Offered by PP Ilmu Kemanusiaan Dr. Mohd Khairunaz Mat Desa (<i>Coordinator</i>)
LEVEL 300						
20.	EEE301: Pengujian dan Pengukuran Peranti Semikonduktor [E] (<i>Semiconductor Device Test and Measurement</i>)	4	50:50	Assignment Experiment Project Test	15 15 10 10	Dr. Mohamad Adzhar Md Zawawi* Dr. Usman Bature Isyaku

21.	EEE303: Rangkaian & Perhubungan Data [E] (Data Communication & Networking)	4	50:50	Assignment Project Test	30 7 13	Dr. Nor Rizuan Mat Noor* AP. Dr. Mohd Fadzli Mohd Salleh
22.	EEE305: Kejuruteraan Gelombang Mikro [E] (Microwave Engineering)	4	50:50	Assignment Presentation Report Simulation Test	5 5 20 10 10	AP. Dr. Muhammad Firdaus Akbar Jalaludin Khan*
23.	EEE320: Mikropemproses II [T] (Microprocessor II)	3	50:50	Assignment Practical test Project Quiz Test	8 5 30 2 5	AP Dr. Zaini Abdul Halim* AP Dr. Syed Sahal Nazli Alhady Syed Hassan
24.	EEE332: Perhubungan [T] (Communication)	4	50:50	Assignment Presentation Report Test	20 10 10 10	Prof. Ir. Dr. Widad Ismail* Dr. Intan Sorfina Zainal Abidin
25.	EEE350: Sistem Kawalan [T] (Control Systems)	3	40:60	Assignment Quiz Test	20 10 10	AP Ir. Dr. Rosmiwati Mohd Mokhtar* AP Ts. Dr. Fatanah Mohamad Suhaimi
26.	EEE378: Elektronik Digit II [T] (Digital Electronic II)	3	40:60	Assignment Project Test	10 15 15	Dr. Hoo Seng Chun* Dr. Ahmad Nazri Ali
27.	EEE380: Pembungkusan Peranti Semikonduktor (Semiconductor Device Packaging)	4	100:0	Assignment Presentation Project Quiz Test	20 20 30 10 20	Dr. Nor Azlin Ghazali* Dr. Mohamad Adzhar Md Zawawi
28.	EEK361: Elektronik Kuasa [T] (Power Electronics)	3	40:60	Assignment Test	30 10	AP Ir. Dr. Teoh Soo Siang* Ir. Dr. Muhammad Hafeez Mohamed Hariri*
29.	EEK369: Sistem Voltan Tinggi [T] (High Voltage System)	3	40:60	Assignment Quiz Test	30 5 5	Prof. Ir. Dr. Mohamad Kamarol Mohd Jamil* Dr. Noor Dzulaikha Daud
30.	EEK375 Ekonomi dan Pengurusan Sistem Kuasa [E] (Economy and Management on Power System)	4	50:50	Assignment Project Quiz Test	26 10 7 7	Dr. Noor Dzulaikha Daud* Dr. Ramya Ramaswamy
31.	EEM349: Kecerdasan Pengkomputeran [E] (Computational Intelligence)	4	50:50	Assignment Presentation Project Quiz Test	18 2 20 2 8	Dr. Mohd Shahrime Mohd Asaari* Dr. Sami Abdulla Mohsen Saleh
32.	EEM353: Rekabentuk Kejuruteraan Mekanik [T] (Mechanical Engineering Design)	3	40:60	Assignment Project Test	10 20 10	AP Dr. Wan Mohd Yusof Rahiman Wan Abdul Aziz* Dr. Abdul Sattar Din

33.	EEM354: Pengurusan dan Teknologi Pembuatan [E] <i>(Manufacturing Management and Technology)</i>	4	50:50	Assignment Quiz Test	35 5 10	Dr. Suhardi Azliy Junoh* AP Dr. Wan Mohd Yusof Rahiman Wan Abdul Aziz
34.	EEM355: Sistem Mekatronik [T] <i>(Mechatronic System)</i>	3	50:50	Assignment Project Quiz Test	20 20 5 5	Dr. Wan Amir Fuad Wajdi Othman* Dr. Ooi Chia Ai
35.	EEL303: Latihan Industri [T] <i>(Industrial Training)</i> <i>Note: Students, who completed industrial training during long vacation Academic Session 2025/2026, must register this course</i>	5	100:0	Logbook Presentation Report	30 30 40	AP Ir. Dr. Rosmiwati Mohd Mokhtar (Coordinator)
LEVEL 400						
36.	EEE424: Rekabentuk Kejuruteraan Elektronik [T] <i>(Electronic Engineering Design)</i>	3	100	Logbook Presentation Project report Viva voce	10 25 40 25	AP Dr. Nor Muzlifah Mahyuddin (Coordinator)
37.	EEE433: Pengaturcaraan Berorientasikan Objek Untuk Aplikasi Kejuruteraan [T] <i>(Object Oriented Programming for Engineering Applications)</i>	3	100:0	Programming Project Test	20 30 50	AP Dr. Haidi Ibrahim* Dr. Hoo Seng Chun
38.	EEE437: Pemprosesan Isyarat Digit [T] <i>(Digital Signal Processing)</i>	4	50:50	Assignment Test	32 18	Ts. Dr. Siti Fatimah Abd Rahman* AP Dr. Haidi Ibrahim
39.	EEE438: Perhubungan Tanpa Wayar dan Bergerak [E] <i>(Wireless and Mobile Communication)</i> ~EEE440: Sistem Perhubungan Moden [E] (Modern Communication Systems) ~	4	50:50	Assignment Project Test	20 10 20	AP Dr. Mohd Fadzi Mohd Salleh* AP Dr. Nor Muzlifah Mahyuddin
40.	EEE445: Rekabentuk Litar Bersepadu Analog [E] <i>(Analog Integrated Circuit Design)</i>	4	50:50	Assignment Project Test	15 15 20	Dr. Nur Syahadah Yusof* AP Dr. Jagadheswaran Rajendran
41.	EEE453: Rekabentuk Sistem Kawalan [E] <i>(Control System Design)</i>	4	50:50	Assignment Project Quiz Test	18 20 6 6	AP Dr. Nur Syazreen Ahmad* AP. Dr. Muhammad Nasiruddin Mahyuddin
42.	EEK470: Sistem Pengagihan Elektrik Kuasa [T] <i>(Electric Power Distribution System)</i>	4	40:60	Assignment Test	30 10	AP Ir. Ts. Dr. Teh Jiashen* Dr. Mohd Khairunaz Mat Desa
43.	EEK425: Rekabentuk Kejuruteraan Elektrikal [T] <i>(Electrical Engineering Design)</i>	3	100:0	Logbook Presentation Project report Viva voce	10 25 40 25	AP Ir. Dr. Teoh Soo Siang (Coordinator)
44.	EEK468: Mesin dan Pacuan Elektrik [T] <i>(Electrical Machine and Drives)</i>	3	40:60	Assignment Test	20 20	Dr. Ooi Chia Ai* Prof. Ir. Dr. Mohamad Kamarol Mohd Jamil

45.	EEK474: Rekabentuk Mesin Elektrik [E] (<i>Electrical Machine Design</i>)	4	50:50	Quiz Assignment Project	5 30 15	Dr. Muhammad Najwan Hamidi* Dr. Nor Azizah Mohd Yusoff
46.	EEM420: Kawalan Kualiti Industri [T] (<i>Industrial Quality Control</i>) ~EEM421: Kaedah Kualiti [T] (<i>Quality Techniques</i>)~	3	40:60	Assignment Quiz Test	30 5 5	Dr. Nazirah Othman* Ts. Dr. Noramalina Abdullah
47.	EEM423: Reliability Engineering [E] (<i>Kejuruteraan Kebolehpercayaan</i>)	4	50:50	Assignment Project Test	15 22 13	Dr. Aeizaal Azman Abdul Wahab* AP Ir. Ts. Dr. Teh Jiashen
48.	EEM425: Sistem Rekabentuk Mekatronik [T] (<i>Mechatronic System Design</i>)	3	100:0	Logbook Presentation Project report Viva voce	10 25 40 25	AP Dr. Zuraini Dahari* (<i>Coordinator</i>)
49.	EEM426: Analisis Data Raya [E] (<i>Big Data Analytics</i>)	4	50:50	Assignment Project Test	15 20 15	AP Dr. Bakhtiar Affendi Rosdi*
50.	EEM427: Penglihatan Mesin [T] (<i>Machine Vision</i>)	3	40:60	Assignment Lab Project Test	5 5 20 10	Dr. Sami Abdulla Mohsen Saleh* AP Dr. Khoo Bee Ee
51.	EEM441: Makmal Peralatan Dan Kawalan [T] (<i>Instrumentation and Control Lab</i>)	2	100:0	Report Viva voce	50 50	AP Dr. Khoo Bee Ee* Dr. Wan Amir Fuad Wajdi Othman
52.	EEX400: Kajian Bebas [E] (<i>Independent Studies</i>)	4	100:0	Report	100	Prof. Ir. Ts. Dr. Shahrel Azmin Suandi (<i>Coordinator</i>)
53.	LKM400: Bahasa Malaysia IV [U] (<i>Malay Language IV</i>) (For Malaysian students)	2	60:40	Essay Oral Presentation	30 10 20	Offered by School of Languages, Literacies and Translation
LEVEL 500						
54.	EEE538: Metodologi Penyelidikan Kejuruteraan dan Teknologi [T] (<i>Engineering and Technology Research Methodology</i>)	4	100:0	Presentation Research Proposal	30 70	Dr. Mohd Nazri Mahmud (<i>Coordinator</i>)
55.	EKC500: Metodologi Penyelidikan Sains & Kejuruteraan [T] (<i>Science & Engineering Research Methodology</i>)	3	100:0	Presentation Research Proposal	30 70	AP. Dr. Muhammad Nasiruddin Mahyuddin (<i>Coordinator</i>)
LEVEL 500 – MSc ESDE In House						
56.	EEE506: Senibina dan Rekabentuk Sistem Terbenam [T] (<i>Embedded System Architecture and Design</i>)	3	50:50	Assignment Practical Project Quiz Test	10 3 25 2 10	AP Dr. Syed Sahal Nazli Alhady Syed Hassan* AP Dr. Zaini Abdul Halim
57.	EEE511: Teknologi Internet Benda [E] (<i>Internet of Things (IoT) Technology</i>)	3	50:50	Assignment Project Test	20 20 10	Ts. Dr. Noramalina Abdullah* Dr. Mohd Shahrime Mohd Asaari

58.	EEE513: Rekabentuk Litar Mikrogelombang [E] (<i>Microwave Circuit Design</i>)	3	50:50	Assignment Report Simulation Test	10 20 10 10	Dr. Intan Sorfina Zainal Abidin* Dr. Selva Kumar Mariappan
59.	EEE514: Elektronik Kuasa Industri [E] (<i>Industrial Power Electronics</i>)	3	50:50	Assignment Quiz Test	30 5 15	Ir. Dr. Muhammad Hafeez Mohamed Hariri* Dr. Muhammad Najwan Hamidi
60.	EEE533: Disertasi [T] (<i>Disertation</i>)	28	100:0	Dissertation Viva	70 30	Dr. Mohd Nazri Mahmud (Coordinator)
61.	EEE555: Disertasi [T] (<i>Disertation</i>)	24	100:0	Dissertation Viva	70 30	Dr. Mohd Nazri Mahmud (Coordinator)
LEVEL 500 – MSc ESDE Industry						
62.	EEE506: Senibina dan Rekabentuk Sistem Terbenam [T] (<i>Embedded System Architecture and Design</i>)	3	50:50	Assignment Practical Project Quiz Test	10 3 25 2 10	AP Dr. Syed Sahal Nazli Alhady Syed Hassan* AP Dr. Zaini Abdul Halim
63.	EEE507: Rekabentuk Litar Bersepadu Analog Termaju [E] (<i>Advanced Analogue Integrated Circuit Design</i>)	3	50:50	Assignment Project Quiz Test	10 20 5 15	Dr. Nor Azlin Ghazali* AP Dr. Jagadheswaran Rajendran
64.	EEE508: Pemprosesan Isyarat Digit Dan Imej Lanjutan [E] (<i>Advanced Digital Signal and Image Processing</i>)	3	50:50	Assignment Project Quiz Test	28 10 4 8	AP Dr. Haidi Ibrahim* Dr. Sami Abdulla Mohsen Saleh
65.	EEE511: Teknologi Internet Benda [E] (<i>Internet of Things (IoT) Technology</i>)	3	50:50	Assignment Project Test	20 20 10	Ts. Dr. Noramalina Abdullah* Dr. Mohd Shahrimie Mohd Asaari
66.	EEE515: Integriti Isyarat Bagi Rekabentuk Digital Halaju Tinggi [E] (<i>Signal Integrity for High-Speed Digital Design</i>)	3	50:50	Assignment Experiment Project Test	12.5 12.5 12.5 12.5	AP Dr. Patrick Goh Kuan Lye* Lecturers from industry
67.	EEE518: Sistem-Sistem Pintar [E] (<i>Intelligent Systems</i>)	3	50:50	Assignment 10 Project 20 Quiz 5 Test 15	10 20 5 15	AP. Dr. Syed Sahal Nazli Alhady Syed Hassan* Dr. Ahmad Nazri Ali
68.	EEE527: Perhubungan Data dan Rangkaian Komputer [E] (<i>Data Communications and Computer Networks</i>)	3	50:50	Assignment Project Test	20 10 20	AP Dr. Mohd Fadzli Mohd Salleh* Dr. Nor Rizuan Mat Noor
69.	EEE537: Peranti Semikonduktor dan Teknologi Pepejal [E] (<i>Semiconductor Devices and Solid State Technology</i>)	3	50:50	Assignment Project Test	20 20 10	Ts. Dr. Nur Zatil 'Ismah Hashim* Prof. Dr. Asrulnizam Abd Manaf
70.	EEE533: Disertasi [T] (<i>Disertation</i>)	28	100:0	Dissertation Viva	70 30	Dr. Mohd Nazri Mahmud (Coordinator)

71.	EEE555: Disertasi [T] (<i>Disertation</i>)	24	100:0	Dissertation Viva	70 30	Dr. Mohd Nazri Mahmud (<i>Coordinator</i>)
LEVEL 500 – MSc ESDE Offshore AI-Mustaqbal (UOMUS)						
72.	EEE506G: Senibina dan Rekabentuk Sistem Terbenam [T] (<i>Embedded System Architecture and Design</i>)	3	50:50	Assignment Practical Project Quiz Test	10 3 25 2 10	Prof. Dr. Haider Jabbar Abd Nasar* (<i>UOMUS</i>)
73.	EEE507G: Rekabentuk Litar Bersepadu Analog Termaju [E] (<i>Advanced Analogue Integrated Circuit Design</i>)	3	50:50	Assignment Project Quiz Test	10 20 5 15	Prof. Dr. Qais Kareem Al-Gayem* (<i>UOMUS</i>)
74.	EEE508G: Pemprosesan Isyarat Digit Dan Imej Lanjutan [E] (<i>Advanced Digital Signal and Image Processing</i>)	3	50:50	Assignment Project Quiz Test	28 10 4 8	Prof. Dr. Bayan Mahdi Sabbar* (<i>UOMUS</i>)
75.	EEE511G: Teknologi Internet Benda [E] (<i>Internet of Things (IoT) Technology</i>)	3	50:50	Assignment Project Test	20 20 10	Assoc. Prof. Dr. Hamza Mohammed Ridha Al-Khafaji* (<i>UOMUS</i>)
76.	EEE513G: Rekabentuk Litar Mikrogelombang [E] (<i>Microwave Circuit Design</i>)	3	50:50	Assignment Report Simulation Test	10 20 10 10	Prof. Dr. Ibrahim Abdullah Murdas* (<i>UOMUS</i>)
77.	EEE514G: Elektronik Kuasa Industri [E] (<i>Industrial Power Electronics</i>)	3	50:50	Assignment Quiz Test	30 5 15	Assoc. Prof. Dr. Oday Ali Ahmed* (<i>UOMUS</i>)
78.	EEE519G: Disertasi [T] (<i>Disertation</i>)	20	100:0	Dissertation Viva	70 30	Dr. Mohd Nazri Mahmud (<i>Coordinator</i>)
79.	LKM111: Budaya Malaysia dan Bahasa Melayu (<i>Malaysian Culture and Malay Language</i>)	2				Offered by School of Languages, Literacies and Translation

Note: * Course leader.