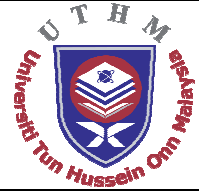


**FACULTY OF ELECTRICAL AND ELECTRONIC ENGINEERING
UNIVERSITI TUN HUSSEIN ONN MALAYSIA**



PROGRAM SPECIFICATION

Program	Diploma of Electrical Engineering	
Award	Diploma of Electrical Engineering	
Study Duration	Minimum	Maximum
	6 semester	10 semester

Terms and Conditions for enrolment:

Entry requirements to gain entry to any courses in this faculty are as follows:

1. SPM Holder

General University Requirements:

- i. Pass in SPM or equivalent with at least FIVE (5) credits including:
 - a. Credit in Bahasa Malaysia
 - b. Pass in English

Special Requirements for Program:

- i. Credit in Additional Mathematics
- ii. Credit in Physics
- iii. Credit in Mathematics and
- iv. Credit in at least ONE (1) of the following subjects:
 - a. Electrical and Electronic Engineering Studies
 - b. Electrical Technology
 - c. Electronic Engineering
 - d. Chemistry
 - e. Engineering Technology
 - f. Information Technology
 - g. Electrical and Geometry Drawing
 - h. Electronic and Geometry Drawing
 - i. Engineering Drawing
 - j. Radio and TV Servicing
 - k. Invention
 - l. Domestic Electrical Appliances Servicing
 - m. Electrical Installation and Control
 - n. Biology
 - o. Geometry Drawing and Building Construction
 - p. Geometry Drawing and Machine
- v. Candidates are not color blind and disabled which prevent from doing practical work.

2. Ministry of Education Certificate Holder

General University Requirements:

- i. Pass in SPM or equivalent and obtain:
 - a. Credit in Bahasa Melayu
 - b. Pass in English



PROGRAM SPECIFICATION

Special Requirements for Program:

- i. Pass and obtain a certificate in related field from Polytechnic, Ministry of Higher Education or equivalent recognised by Malaysia Government with CGPA at least 2.70.
- ii. Candidates are not color blind or disabled which prevent from doing practical work.

Program Educational Objectives

Program Educational Objectives are to produce Electrical Assistant Engineer that:

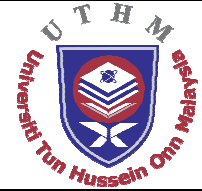
1. Competent and possess basic knowledge in electrical engineering field.
2. Acquire the ability to apply engineering theory and problem solving in electrical engineering.
3. Acquire fundamental skills in electrical engineering and ICT field.
4. Acquire the ability of effective communication and be able to enhance team working spirit.

Program Learning Outcomes

Upon graduation, a graduate should acquire the followings:

1. The ability to apply science knowledge and electrical engineering fundamentals;
2. The ability to acquire the necessary technical competency in electrical engineering field;
3. The ability to utilize engineering instrumentation with appropriate technique in engineering practice according to industrial needs;
4. The ability to interact and exploit the information technology and to communicate effectively;
5. The ability to identify problems and propose solution in problem solving;
6. The ability to practice professionally and ethically electrical engineering knowledge;
7. The ability to enhance knowledge in specific and new fields;
8. The ability to act effectively in groups as a leader or team player to achieve a goal;
9. The ability to have a national perspective on social and cultural responsibilities including the entrepreneurship and sustainable development needs; and
10. The ability to appreciate and practice aesthetic values.

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PROGRAM SPECIFICATION

Program Structure

Code	Courses	Credit	Lecture	Tutorial	Practical	Student Learning Time
UMA 1172/ UMA 1142	Islamic Studies / Moral Studies	2	2	0	0	2
UMA 3032	Akidah Ketuhanan dan Sains	2	2	0	0	2
UMS 1133	Nationhood and Current Malaysia Development	3	3	0	0	3
UMB 1011	English for Academic Purposes **	1	1	1	0	2
UMB 1112	Technical Communication I	2	2	1	0	3
UMB 1122	Technical Communication II	2	2	1	0	3
UM* 1312	Foreign Language	2	2	1	0	3
UQ* 1**1	Co-curriculum	1	0	0	3	3
DPK 2013	Business & Entrepreneurship	3	2	0	3	5
DSK 1912	Chemistry	2	2	1	0	3
DSF 1963	Physics I	3	2	1	3	6
DSF 1973	Physics II	3	2	1	3	6
DSM 1913	Mathematics I	3	3	1	0	4
DSM 1933	Mathematics II	3	3	1	0	4
DSM 2933	Mathematics III	3	3	1	0	4
DSM 2932	Engineering Statistics	2	2	1	0	3
DEE 1113	Electrical Technology	3	2	1	3	6
DEE 1212	Computer Technology	2	1	0	3	4
DEE 1223	Circuit Theory	3	3	1	0	4
DEE 2112	Computer Programming	2	1	0	3	4
DEE 2123	Digital Electronic	3	2	1	3	6
DEE 2133	Electronic	3	2	1	3	6
DEE 2142	Electrical Instrumentation and Measurement	2	2	1	0	3
DEE 2213	Computer Aided Design	3	1	0	6	7
DEE 2223	Logic System	3	2	1	3	6
DEE 2233	Electrical Engineering Practice	3	2	1	3	6
DEE 3112	Supervisory Skill	2	2	0	0	2
DEE 3213	Computer and Data Communication	3	3	1	0	4
DEK 3113	Industrial Electronic	3	2	1	3	6
DEK 3123	Control System	3	2	1	3	6
DEK 3133	Microcontroller	3	2	1	3	6
DEK 3143	Electric Machines and Drives	3	2	1	3	6
DEK 3213	Electric Power System	3	2	1	3	6
DEK 3223	Automation System and Robotics	3	2	1	3	6
DEK 3233	Communication Engineering	3	2	1	3	6

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PROGRAM SPECIFICATION

DEK 3243	Electrical Engineering Project	3	0	0	9	9
DEE 3314	Industrial Training	4	0	0	0	10 weeks
		97	70	26	69	165

Program Learning Outcome – Course Matrix

No	Code	Course	Program Learning Outcome																			
			LO1		LO2		LO3		LO4		LO5		LO6		LO7		LO8		LO9		LO10	
			1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
1	UMA1172 / UMA1142	Islamic Studies / Moral Studies											x		x		x		x		x	
2	UMA 3032	Akidah Ketuhanan dan Sains													x		x		x		x	
3	UMS 1133	Nationhood and Current Malaysia Development	x				x		x									x				x
4	UMB 1011	English for Academic Purposes **		x		x	x										x	x				x
5	UMB 1112	Technical Communication I		x			x		x		x				x		x		x		x	
6	UMB 122	Technical Communication II					x				x					x	x					
7	UM* 1312	Foreign Language								x								x				x
8	UQ* 1**1	Co-curriculum					x								x			x				
9	DPK 2013	Business & Entrepreneurship														x				x		
10	DSK 1912	Chemistry	x							x	x											
11	DSF 1963	Physics I	x								x											
12	DSF 1973	Physics II	x								x											
13	DSM 1913	Mathematics I	x								x											
14	DSM 1933	Mathematics II	x								x											
15	DSM 2933	Mathematics III	x								x											
16	DSM 2932	Engineering Statistics	x								x											
17	DEE 1113	Electrical Technology	x		x			x		x			x			x	x		x			x
18	DEE 1212	Computer Technology	x			x	x		x		x		x		x		x					
19	DEE 1223	Circuit Theory	x				x	x	x		x	x						x				
20	DEE 2112	Computer Programming	x		x			x		x		x		x		x		x				

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PROGRAM SPECIFICATION

21	DEE 2123	Digital Electronic	x		x			x	x			x			x				
22	DEE 2133	Electronic	x		x			x	x			x		x	x				
23	DEE 2142	Electrical Instrumentation and Measurement	x				x		x					x					
24	DEE 2213	Computer Aided Design	x		x			x	x			x		x	x			x	x
25	DEE 2223	Logic System	x		x			x	x			x	x	x			x		
26	DEE 2243	Electrical Engineering Practice	x		x			x	x			x		x			x		x
31	DEE 3112	Supervisory Skill						x						x			x		
34	DEE 3213	Computer and Data Communication	x			x	x		x			x		x			x		x
27	DEK 3113	Industrial Electronic		x	x			x		x	x		x		x				
28	DEK 3123	Control System	x		x		x		x					x		x			
29	DEK 3133	Microcontroller			x						x					x			x
30	DEK 3143	Electric Machines and Drives	x		x				x			x		x	x				x
32	DEK 3213	Electric Power System	x			x		x		x	x			x			x		x
33	DEK 3223	Automation System and Robotics	x				x				x	x				x			
35	DEK 3233	Communication Engineering		x	x		x			x	x			x			x		
36	DEK 3243	Electrical Engineering Project	x		x		x		x			x		x			x		x
37	DEE 3314	Industrial Training		x							x			x			x		

**** Those who have obtained MUET of at least Band 3 and managed to acquire passing marks of more than 50% in English Placement Test will be exempted from UMB 1011**



PROGRAM SPECIFICATION

Delivery Method

This program is disseminated through various delivery methods to fulfil the course learning outcomes and in general, to prepare for a centralized learning opportunity. Those methods are:

1. Lectures and Tutorials
2. Practical and Application session-oriented: Laboratory work, workshop, site visit / site work, demonstration or simulation.
3. Seminar and industrial visit.
4. Case-based Learning (Project-Oriented Problem-based Learning)
5. Project
6. E-Learning

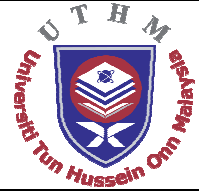
Evaluation Method

Formative and Summative evaluations which comprise of:

1. Written Examinations
2. Test / Quiz
3. Assignment
4. Presentation
5. Laboratory Report
6. Skill Inspection
7. Log book
8. Industrial Evaluation

Terms and Conditions for the award of the program:

1. Student should apply for the award and the application is granted by the Faculty.
2. Pass all compulsory subjects as required by the program.
3. Obtained a total '**KREDIT DAPAT**' as required and obtained '**KEDUDUKAN BAIK**'.
4. Pass with Credit in Bahasa Melayu at SPM level.
5. Application must be made by using Bachelor's Degree Award Application Form or Diploma within the stipulated time imposed by the University.
6. Obtained approval and award certification from the Senate.



PROGRAM SPECIFICATION

Career Opportunity

Graduates will have a vast career opportunity in electrical and electronic engineering field within the country itself or abroad as electrical or electronic assistant engineers. However, graduates are qualified to become an assistant engineer in various industries such as telecommunications, factory sectors and manufacturing, health industry, computer industry, information technology and other engineering fields. Other than that, graduates are qualified to further their study in any bachelor degree courses at any universities within the country itself or abroad subject to excellent academic results.

Related Information

(Lecturers/Facilitators/Project/Target Group/Fees/etc)

1. Academicians:

- i. Lecturers teaching university compulsory subjects and basic subjects comprise of academic staffs at Centre for Science Studies (PPS), Centre for Humanities and Communication Studies (PPKK) and Centre of Co-Curricular, Sports and Culture (PKSK). Lecturers who teach core and elective subject of the programs comprise of academic staffs in Faculty of Electrical and Electronic Engineering.
- ii. Instructors teaching Engineering Skills comprise of academic staffs that possess industrial experiences.

2. Learning Concept:

The learning concept of this program is practice-oriented and Outcome-Based Education (OBE) in which the students will be exposed to theoretical and practical training exercises in the university for 6 semesters and in the industry for 10 weeks.

3. Fees:

The fee rates for this program are RM410.00 (Fee paid once during the whole program duration) and RM1,333.00 (Fee for every semester)

4. Faculty PROFORMA can be obtained from the University websites, www.uthm.edu.my.

Prepared by:

Approved by:

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Note: The information is correct at the time of printing and subject to change without notice