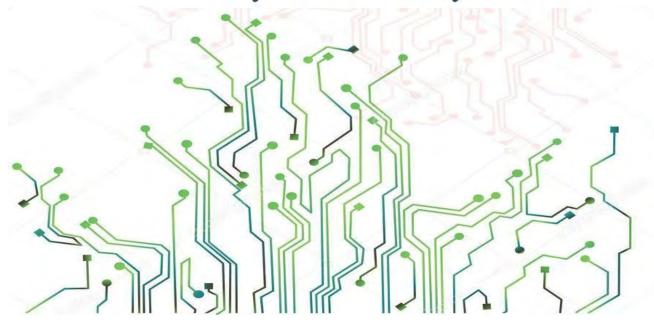


Profile Page

BACHELOR OF ELECTRONIC ENGINEERING WITH HONOURS (SKEL)

Name of Student	:	
Matric. No.	:	
Phone No.	:	
⊏m oil		
Email	:	
Name of Academic Advisor	:	

A journey of thousand miles begins with a single step.



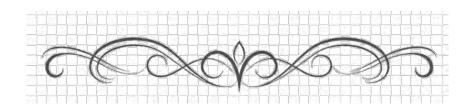
PROGRAMME GUIDELINES

The University adopts the semester system, for an academic year it is divided into two (2) normal semesters, namely Semester I and Semester II, and a short semester at the end of Semester II. New intake of undergraduate students is normally made during Semester I of an academic year. The minimum duration of the programme is 4 years (8 semesters).

All courses offered by the faculty have credits, except for courses which are approved by the University Senate. One (1) credit is equivalent to 14 hours of lectures or 30 hours of practical sessions (studio/project), in a semester. The total number of credits for the Bachelor of Electronic Engineering with Honours (SKEL) programme is 137 credits.

All students' performance and achievements are assessed formally. Normally, every course is assessed based on the coursework, which constitutes not less than 50% of the overall marks, and a final exam paper, which constitutes another 50%. Coursework can be in the form of homework, quiz, test and presentation. Final examination is held at the end of each academic semester. Students' performance in a course is indicated by the letter grade, generally the passing grade for any course is a 'D+'. Students who failed a course (obtained a grade 'D' and below) are required to repeat the course the following semesters when it is offered. Students may improve the grade of any course with a 'B-' or lower grade with a maximum of 15 credits allowed. Subject to the Faculty and University's Academic Regulation, students may withdraw from a course within the stipulated period. Other information on academic regulation can be retrieved from UTM website (UTM Academic Regulations).

A student must pass all courses specified in his/her programme of study and fulfil all the requirements specified for his/her programme of study set by the Faculty and University in order to be awarded with the Bachelor degree.



PROGRAMME LEARNING OUTCOMES (PLO)

All undergraduate programmes offered in FKE share a common Programme Learning Outcomes (PLO). After having completed the Bachelor degree programme, graduates should be able to demonstrate the following competencies:

PLO	PLO STATEMENTS		
PLO1	Apply knowledge of mathematics, science, and electrical engineering to the solution of complex engineering problems.		
(Engineering Knowledge)	Mengaplikasi pengetahuan matematik, sains dan kejuruteraan elektrik untuk penyelesaian masalah kejuruteraan yang kompleks.		
PLO2	Identify, formulate, and conduct research literature to analyse complex engineering problems using engineering knowledge.		
(Problem Analysis)	Mengenalpasti, merumus dan menjalankan kajian literatur untuk menganalisa masalah kejuruteraan yang kompleks menggunakan pengetahuan kejuruteraan.		
PLO3	Design solutions for complex engineering problems and design systems and processes that meet specified needs with appropriate consideration for public health and safety, culture, society, and environment.		
(Design)	Mereka bentuk penyelesaian untuk masalah kejuruteraan yang kompleks dan mereka bentuk sistem dan proses yang memenuhi keperluan spesifik dengan pertimbangan yang sesuai untuk kesihatan dan keselamatan awam, budaya, masyarakat dan alam sekitar.		
PLO4	Perform research-based analysis, conduct experiments and interpret data for complex engineering problems.		
(Investigation)	Melakukan analisis berasaskan penyelidikan, menjalankan eksperimen dan mentafsir data untuk masalah kejuruteraan yang kompleks.		
PLO5	Apply engineering practice and use modern engineering, and IT tools for complex engineering problems with an understanding of the limitations of the technology.		
(Modern Tool Usage)	Mengaplikasi amalan kejuruteraan dan menggunakan peralatan kejuruteraan dan IT yang moden untuk masalah kejuruteraan yang kompleks dengan pemahaman tentang batasan teknologi.		
PLO6	Comprehend the impact of global and contemporary issues, the role of engineers on society, including health, safety, legal and cultural issues, and the consequent responsibilities relevant to professional engineering practices and engineering problems.		
(Engineer & Society)	Memahami kesan isu global dan kontemporari, peranan jurutera ke atas masyarakat, termasuk isu kesihatan, keselamatan, perundangan dan budaya, serta tanggungjawab yang berkaitan dengan amalan kejuruteraan profesional dan masalah kejuruteraan.		

PLO	PLO STATEMENTS
PLO7 (Environment & Sustainability)	Comprehend and evaluate the sustainability and impact of professional engineering work in the solutions of complex engineering problems in societal and environmental contexts. Memahami dan menilai kemampanan dan impak kerja kejuruteraan profesional dalam penyelesaian masalah kejuruteraan yang kompleks dalam konteks masyarakat dan alam sekitar.
PLO8 (Ethics)	Grasp and execute responsibility professionally and ethically in professional engineering practices. Menguasai dan melaksanakan tanggungjawab secara profesional dan beretika dalam amalan kejuruteraan profesional.
PLO9 (Individual & Teamwork)	Function effectively as an individual, and as a member or leader in diverse teams. Berfungsi secara berkesan sebagai individu, dan sebagai ahli atau ketua dalam pelbagai kumpulan.
PLO10 (Communication)	Articulate ideas, communicate effectively, in writing and verbally, on complex engineering activities with the engineering community and with society at large. Menyatakan idea, berkomunikasi secara berkesan, secara bertulis dan lisan, mengenai aktiviti kejuruteraan yang kompleks dengan komuniti kejuruteraan dan dengan keseluruhan masyarakat.
PLO11 (Project Management)	Demonstrate knowledge and understanding of engineering and management principles, and economic decision- making to manage projects in multidisciplinary environments. Menunjukkan pengetahuan dan pemahaman tentang prinsip kejuruteraan dan pengurusan, danmembuat keputusan secara ekonomik untuk mengurus projek dalam persekitaran pelbagai disiplin.
PLO12 (Life-Long Learning)	Recognise the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change. Mengenalpasti keperluan dan mempunyai persediaan serta keupayaan untuk melibatkan diri dalam pembelajaran kendiri dan pembelajaran sepanjang hayat merangkumi konteks perubahan teknologi yang luas.

PROFESSIONAL SKILLS CERTIFICATE (PSC)

UTM has designed its own UTM Professional Skills Certificate (UTM PSC) programme to enhance the knowledge and skills of UTM students. It provides students with value-added courses so that they will have a competitive-edge skills when they enter the employment market. Students will receive a Certificate of UTM Professional Skills Programme and the courses taken will appear in the student transcript. Students are required to undertake and must pass five (5) PSC courses as listed as follows in order to graduate:

COMPULSORY COURSES (ALL THREE (3) COURSES)

NO	COURSES	CODE
1	Design Thinking for Entrepreneur	GLRB0010
2	Talent and Competency Management	GLRM0010
3	English Communication Skills for Graduating Students	GLRL0010

ELECTIVE COURSES (ANY TWO (2) OF THESE COURSES)

NO	COURSES	CODE
1	Data Analytics for Organization	GLRT0010
2	Professional Ethics and Integrity	GLRM0020
3	Construction Measurement (Mechanical & Electrical)	GLRT0020
4	OSHE For Engineering Industry and Laboratory	GLRT0030
5	Quality Management for Built Environment and Engineering Professionals	GLRT0050
6	Safety and Health Officer Introductory Course	GLT0060
7	Industrial Machinery and Lubrication	GLRT0070

PRISMS

(PROGRAM INTEGRASI SARJANA MUDA - SARJANA)

(4 YEARS BACHELOR DEGREE + 1 YEAR MASTER DEGREE)

PRISMS is a newly introduced programme that integrates undergraduate high-level elective SKE* 5**3 courses with the core courses of the Master degree programme. Under PRISMS, students have an opportunity to complete and receive two degrees which are Bachelor degree and Master degree within 5 years (4+1).

REQUIREMENTS

Students who have completed third year second semester courses with a cumulative grade point average (CGPA) of 3.3 and above are eligible to apply for PRISMS. Students can apply using the PRISMS application form and must be recommended by the Academic Advisor, approved by the Program Director, and certified by the Dean of Faculty. Once the application to join PRISMS is approved, students can register for the SKE* 5**3 courses during the course preregistration or compulsory registration period.

PRISMS CREDIT TRANSFER

Students must obtain grade B and above of the high-level elective SKE* 5**3 courses for vertical credit transfer into the Master degree program that students plan to enroll. Maximum unit allowed for the credit transfer is twelve (12) credits.

For more information on PRISMS, kindly visit FKE website.

BACHELOR OF ELECTRONIC ENGINEERING WITH HONOURS (SKEL)

Introduction

A rapid development in electronics, computer and telecommunication industry is one of the major contributors to the Malaysian economy. Rapid development has enabled the electronic, computer and telecommunication industry to flourish. This means that more and more competent electronic graduates are required, to meet the growing demand of skilled manpower. The requirements towards professionals in this field is gradually intensifying and it is predicted that the need will be continued in the next few years. Electronic Engineering is a vast area of studies and is gradually expanding. Graduates undertaking this programme will face a demanding professional career ahead. Various courses are being offered within the programme with the intention of preparing graduates with sufficient knowledge in the electronic field.

Programme Specifications

The Bachelor of Electronic Engineering with Honours is offered either on a full-time or part time basis. The full-time programme is offered only at the UTM Main Campus in Johor Bahru, while the part-time programme is offered at various learning centres throughout Malaysia. The duration of study for the full-time programme is subjected to the student's entry qualifications and lasts between four (4) years to a maximum of six (6) years.

The programme is offered on full-time basis and is based on a 2-Semester per academic session. Generally, students are expected to undertake courses equivalent to between fifteen (15) to eighteen (18) credit hours per semester. Assessment is based on courseworks and final examinations given throughout the semester.

Programme Educational Objectives (PEO)

After having exposed to 3 to 5 years working experience, our graduates should become professionals who demonstrate the following competencies:

Code	Educational Objectives
PEO1	Become Electronic Engineers who are competent, innovative, and productive in addressing stakeholders' needs.
PEO2	Grow professionally with proficient soft skills.
PEO3	Demonstrate high standards of ethical conduct, positive attitude, and societal responsibilities.

	PROGRAMME GENERAL INFORMATION						
1.	Awarding Institution		Universiti Teknolo	ogi Malaysia			
2.	Teac	hing Institution		Universiti Teknolo	ogi Malaysia		
3.	Programme Name		Bachelor of Electr Engineering with				
4.	Final	Award			Bachelor of Electronic Engineering with Honours		
5.	Prog	ramme Code		SKEL			
6.	Professional or Statutory Body of Accreditation		Board of Engineer (BEM)	Board of Engineers Malaysia (BEM)			
7.	Language(s) of Instruction		English and Bahas	English and Bahasa Melayu			
8.	Mode of Study (Conventional, distance learning, etc)		Conventional				
9.		e of operation (Fra	inchise, self-	Self-governing			
10.	Stud	y Scheme (Full Tim	ne/Part Time)	Full Time			
11.	Stud	y Duration		Minimum: 4 yrs	Maximum: 6 yrs		
Тур	e of	No. of Se	emesters	No. of Weeks/	Semester		
Seme		Full Time	Part Time	Full Time	Part Time		
No	Normal 8 - 18 -		-				
Sho	Short 4 - 10 -		-				

COURSE CLASSIFICATION BACHELOR OF ELECTRONIC ENGINEERING WITH HONOURS - SKEL

No.	Classification	Credit Hours	Percentage (%)
1	University General Courses	16	11.7
2	Mathematics	15	10.9
3	Programme Core	80	58.4
4	Programme Electives	21	15.3
5	Free Electives	5	3.7
	Total	137	100
Α	Engineering Courses		
	a) Lecture/Project/Laboratory	90	
	b) Workshop/Field/Design Studio	-	73.7
	c) Industrial Training	5	
	d) Final Year Project	6	
-	Total Credit Hours for Part A	101	
В	Related Courses		
	a) Applied Science/ Mathematic/ Computer	15	
	b) Management/ Law/ Humanities/ Ethic/ Economy	8	
	c) Language	6	26.3
	d) Co-Curriculum	2	
	e) Free Electives	5	
-	Total Credit Hours for Part B	36	100
-	Total Credit Hours for Part A and B		100
-	Fotal Credit Hours to Graduate	1:	37

Award Requirements

To graduate, students must:

- Attain a total of not less than 137 credit hours (SKEL) with a minimum CGPA of 2.0.
- Complete Professional Skills Certificates (PSC).

STUDY PLAN BACHELOR OF ELECTRONIC ENGINEERING WITH HONOURS – SKEL COHORT 2023/2024

CODE	COURSE	CREDIT	PRE- REQUISITE		
	YEAR 1: SEMESTER 1				
ULRS 1012	Value and Identity	2			
SSCE 1693	Engineering Mathematics I	3			
SKEE 1012	Introduction to Electrical Engineering	2			
SKEE 1013	Electrical Circuit Analysis	3			
SKEE 1033	Scientific Programming	3			
SKEE 1233	Digital Electronic Systems	3			
	Total Credits	16			
	YEAR 1: SEMESTER 2				
SSCE 1793	Differential Equations	3	SSCE 1693		
SEMU 2113	Engineering Science	3			
SKEE 1103	C Programming for Engineers	3			
SKEE 1073	Electronic Devices and Circuits	3	SKEE 1013		
SKEE 2133	Electronic Instrumentation and Measurement	3			
ULRS 1182	Appreciation of Ethics and Civilizations (for Local Students)	2			
UHLM 1012	Malay Language for Communication 2 (for International Students)				
	Total Credits	17			

CODE	COURSE	CREDIT	PRE- REQUISITE
	YEAR 2 : SEMESTER 1		
SSCE 1993	Engineering Mathematics II	3	SSCE 1693
SKEE 2073	Signal and Systems	3	
SKEE 3223	Microprocessor	3	SKEE 1223
SKEE 2433	Principles of Electrical Power Systems	3	SKEE 1013
SKEE 3263	Electronic Systems	3	SKEE 1073
SKEE 2752	Electronic Design Laboratory	2	
	Total Credits	17	
	YEAR 2: SEMESTER 2		
SSCE 2193	Engineering Statistics	3	SSCE 1993
SKEE 2523	Electromagnetic Field Theory	3	SSCE 1993
SKEE 3133	System Modelling and Analysis	3	SKEE 2073
SKEL 3233	Digital Signal Processing	3	SKEE 1073
UHLB 2122	Professional Communication Skills 1	2	
ULRF 2**2	Elective of Service Learning and Community Engagement	2	
ULRS 1022	Philosophy and Current Issues. (for Local Students)		
ULRS 1022 OR ULRF 1182	Philosophy and Current Issues OR Appreciation of Ethics and Civilizations (for International Students)	2	
	Total Credits	17	

CODE	COURSE	CREDIT	PRE- REQUISITE		
	YEAR 3: SEMESTER 1				
UHL* 1112	Elective of Foreign Language for Communication	2			
UHLB 3132	Professional Communication Skills 2	2			
SSCE 2393	Numerical Methods	3			
SKEE 3143	Control System Design	3	SKEE 3133		
SKEE 3533	Communication Principles	3	SKEE 2073		
SKEE 3732	Common Third Year Laboratory	2			
S*** ***3	Free Elective 1	3			
	Total Credits	18			
	YEAR 3: SEMESTER 2				
SKEE 3733	Integrated Design Project	3			
SKEL 3383	RTL Design	3	SKEE 1233		
SKEE 3742	Specialized Third Year Laboratory	2			
SKE* ***3	Field Core 1	3			
SKE* ***3	Field Core 2	3			
S*** ***2	Free Elective 2	2			
ULRS 3032	Entrepreneurship & Innovation	2			
	Total Credits	18			
	YEAR 3: SEMESTER 3				
SKEE 3925	Industrial Training	5			
	Total Credits	5			

CODE	COURSE	CREDIT	PRE- REQUISITE		
	YEAR 4: SEMESTER 1				
SKEE 4542	Engineering Management Principles	2			
SKEE 4813	Methodology of Research and Development	3			
SKE* ***3	Field Elective 1 / PRISMS Elective 1	3			
SKE* ***3	Field Elective 2 / PRISMS Elective 2	3			
SKE* ***3	Field Elective 3 / PRISMS Elective 3	3			
SKE* ***3	Field Elective 4 / PRISMS Elective 4/ Faculty Free Elective 1	3			
	Total Credits	17			
	YEAR 4: SEMESTER 2				
SKEE 4012	Professional Engineering Practice	2			
SKEE 4826	Final Year Project	6	SKEE 4813		
SKE* ***3	Field Elective 5 / Faculty Free Elective 2	3			
	Total Credits	11			
	CUMULATIVE CREDITS 137				

ELECTIVE FIELDS

1. ELECTRON	Total Credit					
Type of Elective	Course Code	Course Name	Credit Hours			
Core Elective	SKEL 4743	Basic Digital VLSI Design	3	6		
00.0 2.000.0	SKEL 4373	IC Testing Techniques	3			
	SKEL 4293	Advanced Digital Signal Processing	3			
	SKEL 4333	Computer Architecture and Organization	3			
Field Elective	SKEL 4363	Digital Image Processing	3			
(*choose 5)	SKEL 4283	Analog CMOS IC Design	3	15		
(SKEL 4663	Embedded Processor System	3			
	SKEL 4673	DSP Architectures	3			
	SKEE 4513	Special Topic in Electrical Engineering	3			
		Total Credit Hours		21		

2. MICROELE	Total Credit				
Type of Elective	Course Code	Course Name	Credit Hours	Total Credit	
Core Elective	SKEL 3613	Semiconductor Material Engineering	3	6	
	SKEL 4743	Basic Digital VLSI Design	3		
	SKEL 4283	Analog CMOS IC Design	3		
	SKEL 4373	IC Testing Techniques	3		
	SKEL 4613	Semiconductor Device Engineering	3		
	SKEL 4623	Solid State Electronic Device	3		
Field Elective (*choose 5)	SKEL 4633	Microelectronic Device Fabrication and Characterization	3	15	
	SKEL 4683	Nanoelectronics Materials and Applications	3		
	SKEL 4653	Modelling and Simulation of Microelectronic Devices	3		
	SKEE 4513	Special Topic in Electrical Engineering	3		
	21				

3. COMPUTE	Total Credit				
Type of Elective	Course Code	Course Name	Credit Hours	Total Great	
Core Elective	SKEL 4333	Computer Architecture and Organization	3	6	
Core Elective	SKEL 4663	Embedded Processor System	3	· ·	
	SKEL 4213	Software Engineering	3		
	SKEL 4343	Information Security	3		
Field Elective	SKEL 4673	DSP Architectures	3		
(*choose 5)	SECR 2043	Operating System	3	15	
	SKEM 4173	Artificial Intelligence	3		
	SKET 3623	Data Communication and Networks	3		
	SKEE 4513	Special Topic in Electrical Engineering	3		
	21				

4. MEDICAL E	Total Credit				
Type of Elective	Course Code	Course Name	Credit Hours		
	SKEB 3503	Physiology and Introduction to Medicine	3		
Core Elective	SKEB 3043	Instrumentation and Measurement in Biomedical	3	6	
	SKEB 3423	Clinical Engineering 1	3		
	SKEB 4023	Biomedical Signal Processing	3		
Field Elective	SKEL 4543	Biosystem Modelling	3		
(*choose 5)	SKEB 3023	Biomedical Imaging	3	15	
	SKEL 4563	Biosensors and Transducers	3		
	SKEB 3313	Biomedical Materials	3		
	SKEE 4513	Special Topic in Electrical Engineering	3		
	Total Credit Hours				

5. TELECOMMUNICATION ENGINEERING				Total Credit
Type of Elective	Course Code	Course Name	Credit Hours	
Core Elective	SKET 3573	Microwave Engineering	3	6
COTE LIECTIVE	SKET 3623	Data Communication and Networks	3	
	SKET 3583	Digital Communication Systems	3	
	SKET 4523	Optical Communication Systems	3	
	SKET 4533	Wireless Communication Systems	3	
Field Elective	SKET 4543	RF Microwave Circuit Design	3	
(*choose 5)	SKET 4593	Acoustic Engineering	3	15
(6110036 3)	SKET 4613	Antenna Theory and Design	3	13
	SKET 4623	Network Programming	3	
	SKET 4643	Optical Materials and Sensors	3	
	SKET 4663	Optical Network	3	
	SKEE 4513	Special Topic in Electrical Engineering	3	
	21			

PROGRAM INT	Total Credit			
Type of Elective	Course Code	Course Name	Credit Hours	
	SKEL 5113	Advanced Nanoelectronics Devices	3	
	SKEL 5123	Advanced Microprocessor System	3	
	SKEL 5173	Advanced Digital System Design	3	
Field Elective	SKEL 5193	Advanced Analog CMOS IC Design	3	
(*maximum	SKET 5313	Communication and Computer Networks	3	12
choose 4)	SKET 5423	Advanced Wireless Communication Systems	3	
	SKET 5513	Sustainable Design, Engineering and Management	3	
	SKET 5523	Internet of Things Technologies	3	

AWARD REQUIREMENTS

To graduate, students must:

- Attain a total of not less than 137 credit hours (SKEB)
- Attain a minimum CGPA of 2.0.
- Complete Professional Skills Certificates (PSC).

GRADUATION CHECKLIST

It is the responsibility of the students to ensure that all courses are taken and passed. Students who do not complete any of the courses are not eligible to graduate.

NO	CODE	COURSE	CREDIT EARNED	CREDIT COUNTED	TICK (/) IF PASSED
ENGI	NEERING COUF	RSES			
1	SKEE 1012	Introduction to Electrical Engineering	2	2	
2	SKEE 1013	Electrical Circuit Analysis	3	3	
3	SKEE 1033	Scientific Programming	2	2	
4	SKEE 1073	Electronic Devices and Circuits	3	3	
5	SKEE 1233	Digital Electronic Systems	3	3	
6	SKEE 2073	Signal and Systems	3	3	
7	SKEE 2133	Electronic Instrumentation & Measurement	3	3	
8	SKEE 2433	Principles of Electrical Power Systems	3	3	
9	SKEE 2523	Electromagnetic Field Theory	3	3	
10	SKEE 2752	Electronic Design Laboratory	2	2	
11	SKEE 3133	System Modeling & Analysis	3	3	
12	SKEE 3143	Control System Design	3	3	
13	SKEE 3223	Microprocessor	3	3	
14	SKEE 3263	Electronic Systems	3	3	
15	SKEL 3383	RTL Design	3	3	
16	SKEE 3533	Communication Principles	3	3	
17	SKEE 3732	Common Third Year Laboratory	2	2	
18	SKEE 4012	Professional Engineering Practice	2	2	
19	SKEE 3742	Specialized Third Year Laboratory	2	2	
20	SKEL 3233	Digital Signal Processing	3	3	
21	SKEE 3733	Integrated Design Project	3	3	
22	SKEE 4813	Methodology of Research and Development	3	3	
23	SKEE 4826	Final Year Project	4	4	
24	SKEE 3925	Industrial Training	5	HL	
25	SEMU 2113	Engineering Science	3	3	
26	SKE* ***3	Field Core 1	3	3	
27	SKE* ***3	Field Core 2	3	3	
28	SKE* ***3 / SKE* 5**3	Field Elective 1 / PRISMS Elective 1	3	3	
29	SKE* ***3 / SKE* 5**3	Field Elective 2 / PRISMS Elective 2	3	3	
30	SKE* ***3 / SKE* 5**3	Field Elective 3 / PRISMS Elective 3	3	3	
31	SKE* ***3 / SKE* 5**3	Field Elective 4 / PRISMS Elective 4	3	3	
32	SKE* ***3	Field Elective 5	3	3	
33	SKE* ***3	Field Elective 6	3	3	
34	SKEE 1103	C Programming for Engineers	3	3	
35	SKEE 4542	Engineering Management Principles	2	2	
		Total Credit of Engineering Courses (A)	101	95	

NO	CODE	COURSE	CREDIT EARNED	CREDIT COUNTED	TICK (/) IF PASSED	
MAT	THEMATICS CO	URSES				
1	SSCE 1693	Engineering Mathematics 1	3	3		
2	SSCE 1793	Differential Equations	3	3		
3	SSCE 1993	Engineering Mathematics 2	3	3		
4	SSCE 2193	Engineering Statistics	3	3		
5	SSCE 2393	Numerical Methods	3	3		
		Total Credit of Mathematics Courses (B)	15	15		
UNIV	ERSITY GENER	AL COURSES				
Clust	er 1: Malaysia	Core Value				
1	UHMS 1182	Appreciation of Ethics and Civilizations (for Local Students)				
	UHIS 1022 or UHMS 1182	Philosophy and Current Issues OR Appreciation of Ethics and Civilizations (for International Students	2	2		
2	UHIS 1022	Philosophy and Current Issues (for Local Students)	2	2		
	UHLM 1012	Malay Language 2 (for International Students)				
Clust	er 2: Value and	Identity				
1	ULRS 1012	Value and Identity	2	2		
Clust	er 3: Global Cit	izen				
1	UKQF 2**2	Service Learning & Community Engagement	2	2		
Clust	er 4: Communi	cation Skill				
1	UHLB 2122	Professional Communication Skills 1	2	2		
2	UHLB 3132	Professional Communication Skills 2	2	2		
3	UHL* 1112	Foreign Language for Communication	2	2		
Clust	er 5: Enterprisi	ng Skill				
1	ULRS 3032	Entrepreneurship & Innovation	2	2		
		Total Credit of University General Courses (C)	16	16		
FREE	FREE ELECTIVE COURSES					
1	S*** ***3	Free Elective 1	3	3		
2	S*** ***2	Free Elective 2	2	2		
		Total Credit of Free Elective Courses (D)	5	5		
	Total	Credit to Graduate (A + B + C + D)	137	132		

OTHER COMPULSORY COURSES - PROFESSIONAL SKILLS CERTIFICATE (PSC)

Students are required to enroll and pass FIVE (5) PSC courses, in order to be eligible to graduate.

NO	CODE	COURSE	TICK (/) IF PASSED	
сом	PULSORY PSC C	OURSES (Enroll all 3 courses)		
1	GLRB0010	Design Thinking for Entrepreneur		
2	GLRM0010	Talent and Competency Management		
3	GLRL0010 English Communication Skills for Graduating Students			
ELEC	TIVE PSC COURS	SE (Choose 2 only)		
1	GLRT0010	Data Analytics for Organization		
2	GLRM0020	Professional Ethics and Integrity		
3	GLRT0020	Construction Measurement (Mechanical & Electrical)		
4	GLRT0030	OSHE For Engineering Industry and Laboratory		
5	GLRT0050	Quality Management for Built Environment and Engineering Professionals		
6	GLRT0060	Safety and Health Officer Introductory Course		
7	GLRT0070	Industrial Machinery and Lubrication		

ACADEMIC PROGRESS

No	Session (Semester)	GPA	CGPA	Remarks
1	2023/2024(1)			
2	2023/2024(2)			
3	2024/2025(1)			
4	2024/2025(1)			
5	2025/2026(1)			
6	2025/2026(2)			
7	2025/2026(3)			
8	2026/2027(1)			
9	2026/2027(2)			
10				

COURSE APPROVAL

(MORE THAN 18 CREDITS)

Students are not allowed to take more than 21 credit hours

21 CREDITS Approval by Academic Advisor and Dean



PROF. DR. JAFRI BIN DIN

Dean

Faculty of Electrical Engineering

jafri@utm.my

20 CREDITS Approval by Academic Advisor and Deputy Dean (Academic and Student Affairs)



PROF. IR. DR. MUHAMMAD NADZIR BIN MARSONO
Deputy Dean (Academic & Student Affairs)
Faculty of Electrical Engineering
mnadzir@utm.my

19 CREDITS Approval by Academic Advisor and Director



PROF. IR. DR.

RUBITA BINTI SUDIRMAN

Director of Electronic &

Computer Engineering

Department

rubita@utm.my



ASSOC. PROF. TS. DR.
SHAHRIN BIN MD. AYOB
Director of Electrical Power
Engineering Department

e-shahrin@utm.my



PROF. IR. DR.

HAZLINA BINTI SELAMAT

Director of Control &

Mechatronics Engineering

Department

hazlina@utm.my



IR. TS. DR.

ASNIDA BINTI ABDUL WAHAB

Director of Biomedical

Engineering & Health Sciences

Department

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Computer Architectures, VLSI Design, Network Processing and Internetworking, Network Algorithmics, Network Processor Architectures

ASSOCIATE PROFESSOR

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B. Sc. (Electrical Engineering) (Missouri – Columbia, USA), M. Eng. (Electrical), Ph. D. (Electrical Engineering) (UTM), SMIEEE, MIET. Signal Theory, Signal Processing for Communication and Radar, Signal Analysis and Classification, Information Security (Skim Amal Bakti Jun 2023 – May 2024)





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Design of Medical Devices, Virtual Reality Systems, Surgical Simulators, Rehabilitation Robots, Haptics, Human Motor Learning and Assessment, Connected Healthcare Systems





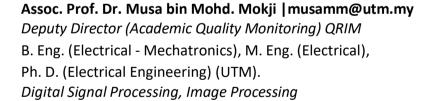
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Semiconductor Material Engineering, Device Modelling of Low Dimensional Nanostructure, Device Simulation based on Tight-Binding







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MEMS/NEMS, Lab-on-Chip, Sensors & Actuators, Building Systems





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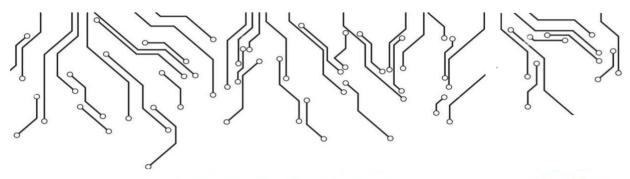
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ACADEMIC OFFICE UNDERGRADUATE PROGRAM

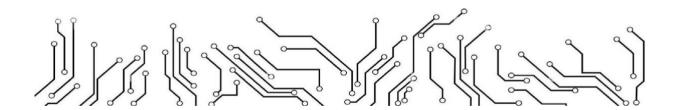


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