

## GRADUATION CHECKLIST

To graduate, students must pass all the stated courses in this 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 course are not allowed to graduate.

### Bachelor of Engineering (Electrical - Mechatronics) - SEEM

NO.	CODE	COURSE	CREDIT EARNED (JKD)	CREDIT COUNTED (JKK)	TICK (✓)IF PASSED
<b>BACHELOR OF ENGINEERING (ELECTRICAL – MECHATRONICS)</b>					
1.	SEEE 1012	Introduction to Electrical Engineering	2	2	
2.	SEEE 1013	Electrical Circuit Analysis	3	3	
3.	SEEE 1022	Introduction to Scientific Programming	2	2	
4.	SEEE 1073	Electronic Devices and Circuits	3	3	
5.	SEEE 1223	Digital Electronics	3	3	
6.	SEEE 2073	Signals and Systems	3	3	
7.	SEEE 2133	Electronic Instrumentation & Measurement	3	3	
8.	SEEE 2263	Digital Systems	3	3	

9.	SEEE 2423	Fundamentals of Electrical Power Systems	3	3	
10.	SEEE 2523	Electromagnetic Field Theory	3	3	
11.	SEEE 2742	2 <sup>nd</sup> Year Electronic Design Lab	2	2	
12.	SEEE 3133	System Modeling & Analysis	3	3	
13.	SEEE 3143	Control System Design	3	3	
14.	SEEE 3223	Microprocessor	3	3	
15.	SEEE 3263	Electronic Systems	3	3	
16.	SEEE 3533	Communication Principles	3	3	
17.	SEEE 3732	Common 3 <sup>rd</sup> Year Laboratory	2	2	
18.	SEEE 4012	Professional Engineering Practice	2	2	
19.	SEEL 4223	Digital Signal Processing I	3	3	
20.	SEEM 1113	Engineering Mechanics	3	3	
21.	SEEM 1502	Computer Aided Engineering Drawing	2	2	
22.	SEEM 3123	Hydraulic and Pneumatic Systems	3	3	
23.	SEEM 3133	Electrical Motors and Drives	3	3	
24.	SEEM 3742	Specialized 3 <sup>rd</sup> Year Laboratory	2	2	

25.	SEEM 4143	Robotics	3	3	
26.	SEEM 4333	Mechatronics System Design	3	3	
27.	SEEM 4723	Capstone Project	3	3	
28.	SEEM 4812	Final Year Project Part I	2	2	
29.	SEEM 4824	Final Year Project Part II	4	4	
30.	SEEM 4926	Practical Training	6	6	
31.	SEE* 4**3	Field Elective 1	3	3	
32.	SEE* 4**3	Field Elective 2	3	3	
33.	SEE* 4**3	Field Elective 3	3	3	
34.	SECP 1103	C Programming Techniques	3	3	
35.	SHMS 4542	Engineering Management	2	2	
		<b>TOTAL CREDIT OF ENGINEERING COURSES(a)</b>	<b>100</b>	<b>94</b>	
<b>MATHEMATICS COURSES (Faculty of Science)</b>					
1.	SSCE 1693	Engineering Mathematics I	3	3	
2.	SSCE 1793	Differential Equations	3	3	
3.	SSCE 1993	Engineering Mathematics II	3	3	
4.	SSCE 2193	Engineering Statistics	3	3	

5.	SSCE 2393	Numerical Methods	3	3	
		<b>TOTAL CREDIT OF MATHEMATICS COURSES (b)</b>	<b>15</b>	<b>15</b>	
<b>UNIVERSITY GENERAL COURSES</b>					
<b>Kluster 1: Penghayatan Falsafah, Nilai &amp; Sejarah</b>					
1.	UHMS 1182	Penghayatan Etika dan Peradaban (Local Students)	2	2	
	UHIS 1022 OR UHMS 1182	Falsafah dan Isu Semasa OR Penghayatan Etika dan Peradaban (International Students)			
2.	UHIS 1022	Falsafah dan Isu Semasa (Local Students)	2	2	
	UHLM 1012	Malay Language for Communication 2 (International Students)			
<b>Kluster 2: Kemahiran Insaniah (Soft Skills)</b>					
1.	UHMT 1012	Graduate Success Attributes	2	2	
<b>Kluster 3: Perluasan Ilmu</b>					

1.	UHIT 2302	Science and Technology Thinking	2	2	
<b>Kluster 4: Kurikulum Pembelajaran Servis</b>					
1.	UKQF 2**2	Elective of Co-Curricular Service Learning	2	2	
2.	UKQT 3001	Extracurricular Experiential Learning (ExCEL)	1	1	
<b>Kluster 5: Kemahiran Bahasa (Language Skill)</b>					
1.	UHLB 1112	English Communication Skills	2	2	
2.	UHLB 2122	Academic Communication Skills	2	2	
3.	UHLB 3132	Professional Communication Skills	2	2	
4.	UHL* 1112	Elective Of Foreign Language	2	2	
<b>Kluster 5: Keusahawanan (Entrepreneurship)</b>					
1.	UBSS 1032	Introduction to Entrepreneurship	2	2	
		TOTAL CREDIT of UNIVERSITY GENERAL COURSES (c )	21	21	
		<b>TOTAL CREDIT TO GRADUATE (a + b + c)</b>	<b>136</b>	<b>130</b>	

## OTHER COMPULSORY COURSES

### Professional Skills Certificate (PSC) (UTMSPACE/ School)

1.	GLL 1001	How to Get Your Self Employed	
2.	GLL 1029	ISO 9001:2008 Quality Management System Requirement	
3.	GLL 1040	Occupational Safety, Health and Environment	
4.	GLL 1041	How to Manage Your Personal Finance	

### Test of English Communication Skill (TECS) (Language Academy, Faculty of Social Sciences and Humanities)

1.	TECS 1001	Oral Interaction	
2.	TECS 1002	Writing	