

## 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.

NO	COURSE CODE	COURSE NAME	CREDIT EARNED (JKD)	CREDIT COUNTED (JKK)	TICK (/) IF PASSED
<b>MECHANICAL ENGINEERING COURSES</b>					
1	SEMM 1013	Programming for Engineers	3	3	
2	SEMM 1113	Mechanics of Solids I	3	3	
3	SEMM 1203	Statics	3	3	
4	SEMM 1213	Dynamics	3	3	
5	SEMM 1503	Engineering Drawing	3	3	
6	SEMM 1513	Introduction to Design	3	3	
7	SEMM 1911	Experimental Methods	1	1	
8	SEMM 1921	Introduction to Mechanical Engineering	1	1	
9	SEMM 2123	Mechanics of Solids II	3	3	
10	SEMM 2223	Mechanics of Machines & Vibration	3	3	
11	SEMM 2313	Mechanics of Fluids I	3	3	
12	SEMM 2323	Mechanics of Fluids II	3	3	
13	SEMM 2413	Thermodynamics	3	3	
14	SEMM 2433	Applied Thermodynamics & Heat Transfer	3	3	
15	SEMM 2613	Materials Science	3	3	
16	SEMM 2713	Manufacturing Processes	3	3	
17	SEMM 2921	Laboratory I	1	1	
18	SEMM 3023	Applied Numerical Methods	3	3	
19	SEMM 3233	Control Engineering	3	3	
20	SEMM 3242	Instrumentation	2	2	
21	SEMM 3523	Component Design	3	3	
22	SEMM 3623	Materials Engineering	3	3	
23	SEMM 3813	Industrial Engineering	3	3	
24	SEMM 3823	Engineering Management, Safety & Economics	3	3	
25	SEMM 3915	Industrial Training	5	HL	
26	SEMM 3931	Laboratory II	1	1	
27	SEMM 3941	Laboratory III	1	1	
28	SEMM 4533	System Design	3	3	
29	SEMM 4902	Engineering Professional Practice	2	2	
30	SEMM 4912	Undergraduate Project I	2	2	

31	SEMM 4924	Undergraduate Project II	4	4	
32	SEMP 3713	CAD/CAM	3	3	
33	SEMP 4713	Design for Manufacture & Assembly	3	3	
34	SEMP 4723	Manufacturing Automation	3	3	
35	SEMP 4733	Tooling for Production	3	3	
36	SEMP 4xx3	Elective I	3	3	
	SEMP 5xx3	PRISMS Elective I			
37	SEMP 4xx3	Elective II	3	3	
	SEMP 5xx3	PRISMS Elective II			
<b>TOTAL CREDIT FOR MECHANICAL ENGINEERING COURSES (A)</b>			<b>101</b>	<b>96</b>	
<b>ELECTRICAL COURSES (Faculty of Electrical Engineering)</b>					
1	SEEU 1002	Electrical Technology	2	2	
2	SEEU 2012	Electronics	2	2	
<b>TOTAL CREDIT FOR ELECTRICAL COURSES (B)</b>			<b>4</b>	<b>4</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	
<b>TOTAL CREDIT FOR MATHEMATICS COURSES (C)</b>			<b>12</b>	<b>12</b>	
<b>UNIVERSITY GENERAL COURSES</b>					
<b>UNIVERSITY FREE ELECTIVE</b>					
38	SXXX xxx3	Free Elective	3	3	
<b>MALAYSIA CORE VALUE</b>					
1	UHS 1022	Philosophy and Current Issues	2	2	
2	UHMS 1182	Appreciation of Ethics and Civilizations	2	2	
	UHLM 1012	Malay Language 2 (for International Students)			
<b>VALUE AND IDENTITY</b>					
1	ULRS 1012	Value and Identity	2	2	
<b>GLOBAL CITIZEN</b>					
1	UKQF2XX2	Service Learning and Community Engagement	2	2	
<b>COMMUNICATION SKILLS</b>					
1	UHLB 2122	Professional Communication Skills 1	2	2	
2	UHLB 3132	Professional Communication Skills 2	2	2	
3	UHLX 1112	Foreign Language for Communication	2	2	
<b>ENTERPRISING SKILLS</b>					
1	ULRS 3032	Entrepreneurship and Innovation	2	2	

<b>TOTAL CREDIT FOR UNIVERSITY GENERAL COURSES (D)</b>		<b>19</b>	<b>19</b>	
<b>TOTAL CREDIT TO GRADUATE (A + B + C + D)</b>		<b>136</b>	<b>131</b>	
<b>OTHER COMPULSORY COURSES – PROFESSIONAL SKILLS CERTIFICATION (PCS)</b>				
<ul style="list-style-type: none"> <li>Students are required to enrol and pass FIVE (5) PCS courses, in order to be eligible to graduate</li> </ul>				
<b>Compulsory PSC Courses</b>				
1	GSPX XXXX	Design Thinking for Entrepreneur		
2	GSPX XXXX	Talent and Competency Management		
3	GSPX XXXX	English Communication Skills for Graduating Students (ECS)		
<b>Elective PSC Courses (Choose 2 only)</b>				
1	GSPX XXXX	Data Analytic for Organization		
2	GSPX XXXX	Quality Management for Built Environment and Engineering Professionals		
3	GSPX XXXX	Construction Measurement (Mechanical & Electrical)		
4	GSPX XXXX	Professional Ethics and Integrity		
5	GSPX XXXX	OSHE for Engineering Industry and Laboratory		
6	GSPX XXXX	OSHE for Construction Industry and Laboratory Works		
7	GSPX XXXX	Safety and Health Officer Introductory Course		