

## 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.	CODE	COURSE	CREDIT EARNED (JKD)	CREDIT COUNTED (JKK)	TICK (✓) IF PASSED
<b>SCHOOL OF CIVIL ENGINEERING COURSES</b>					
1	SEAA 1011	Introduction to Civil Engineering	1	1	
2	SEAA 1023	Engineering Surveying	3	3	
3	SEAA 1031	Survey Camp (YEAR 1 / SHORT SEMESTER)	1	HL	
4	SEAA 1213	Engineering Mechanics	3	3	
5	SEAA 1422	Engineering Drawing	2	2	
6	SEAA 1513	Fluid Mechanics	3	3	
7	SEAA 1713	Soil Mechanics	3	3	
8	SEAA 2012	Civil Engineering Laboratory 1	2	2	
9	SEAA 2032	Mechanical & Electrical Systems	2	2	
10	SEAA 2112	Civil Engineering Materials	2	2	
11	SEAA 2223	Mechanics of Materials and Structures	3	3	
12	SEAA 2413	Computer Programming	3	3	
13	SEAA 2513	Hydraulics	3	3	
14	SEAA 2712	Engineering Geology and Rock Mechanics	2	2	
15	SEAA 2722	Geotechnics 1	2	2	
16	SEAA 2832	Highway Engineering	2	2	
17	SEAA 2912	Water Treatment	2	2	
18	SEAA 2922	Wastewater Engineering	2	2	
19	SEAA 3012	Civil Engineering Laboratory 2	2	2	
20	SEAA 3022	Integrated Design Project 1	2	2	
21	SEAA 3045	Industrial Training (YEAR 3 / SHORT SEMESTER) for 12 weeks / 3 months	5	HL	
22	SEAA 3123	Construction Technology, Estimating & Contract	3	3	
23	SEAA 3243	Theory of Structures	3	3	
24	SEAA 3313	Reinforced Concrete Design 1	3	3	
25	SEAA 3323	Structural Steel & Timber Design	3	3	
26	SEAA 3412	Building Information Modelling and Data Management	2	2	
27	SEAA 3613	Hydrology and Water Resources	3	3	
28	SEAA 3712	Geotechnics 2	2	2	
29	SEAA 3842	Traffic Engineering	2	2	

30	SEAA 3913	Environmental Management	3	3	
31	SEAA 4021	Civil Engineering Seminar	1	HL	
32	SEAA 4022	Research Methodology and Pre-Project	2	2	
33	SEAA 4034	Final Year Project	4	4	
34	SEAA 4032	Integrated Design Project 2	2	2	
35	SEAA 4113	Construction & Project Management	3	3	
36	SEAA 4223	Structural Analysis	3	3	
37	SEAA 4333	Reinforced Concrete Design 2	3	3	
38	SEAA 4**3	Elective 1	3	3	
39	SEAA 5**3	PRISMS Elective 1			
40	SEAA 4##3	Elective 2	3	3	
41	SEAA 5**3	PRISMS Elective 2			
42	SEAA 4##3	Elective 3	3	3	
43	SEAA 5**3	PRISMS Elective 3			
<b>TOTAL CREDIT OF CIVIL ENGINEERING COURSES (a)</b>			<b>101</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: Appreciation of Philosophy, Value and History (Faculty of Social Sciences and Humanities)</b>					
1	UHMS1182	Appreciation of Ethics and Civilizations (for Local Students Only)	2	2	
	UHS1022	Philosophy and Current Issues (for International Students only)			
	OR	OR			
	UHMS 1182	Appreciation of Ethics and Civilizations (for International Students)			
2	UHS 1022	Philosophy and Current Issues (for Local Students)	2	2	
	UHLM 1012	Malay Language 2 (for International Students)			
<b>Cluster 2: Generic Skills</b>					
1	UHMT 1012	Graduate Success Attributes	2	2	
2	UBSS 1032	Introduction to Entrepreneurship	2	2	

3	U**2**2	Soft Skills Elective	2	2	
<b>Cluster 3: Knowledge Enhancement</b>					
1	UHIT 2302	The Thought of Science and Technology	2	2	
<b>Cluster 4: Co-Curriculum and Service Learning</b>					
1	UKQ* 2**2	Co-Curriculum & Service Learning	2	2	
2	UKQT 3001	Extracurricular Experiential Learning (ExCEL)	1	1	
<b>Cluster 5: Language Skills (Language Academy, Faculty of Social Sciences and Humanities)</b>					
1	UHLB 1112	English Communication Skills	2	2	1
2	UHLB 2122	Academic Communication Skills	2	2	2
3	UHLB 3132	Professional Communication Skills	2	2	3
4	UHL* 1112	Elective of Foreign Language	2	2	4
<b>TOTAL CREDIT of UNIVERSITY GENERAL COURSES (c)</b>			<b>21</b>	<b>21</b>	
<b>TOTAL CREDIT TO GRADUATE (a + b + c)</b>			<b>137</b>	<b>130</b>	

#### OTHER COMPULSORY COURSES – PROFESSIONAL SKILLS CERTIFICATE (PSC)

Students are required to enrol and pass FIVE (5) PSC courses, to be eligible to graduate. Enrol the PSC courses as follows:

#### COMPULSORY PSC COURSES (Enrol All 3 Courses)

1	GLRB0010	Design Thinking for Entrepreneur	
2	GLRM0010	Talent and Competency Management	
3	GLRL0010	English Communication Skills for Graduating Students (ECS)	

#### ELECTIVE PSC COURSES (Choose Any 2 Courses 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	GLRT0040	OSHE for Construction Industry and Laboratory Works	
6	GLRT0050	Quality Management for Build Environment and Engineering Professionals	
7	GLRT0060	Safety and Health Officer Introductory Course	

8	GLRT0070	Industrial Machinery and Lubrication	
Or any other elective PSC courses offered by UTM iLeague. Information on PSC Courses: <a href="https://ileague.utm.my/utm-professional-skills-certificate-utm-psc/">https://ileague.utm.my/utm-professional-skills-certificate-utm-psc/</a> Online PSC Registration: <a href="https://elearnpsc.utmspace.edu.my/">https://elearnpsc.utmspace.edu.my/</a>			