

## 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 courses are not allowed to graduate.

NO.	CODE	COURSE	CREDIT EARNED (JKD)	CREDIT COUNTED (JKK)	TICK (✓) IF PASSED
<b>NUCLEAR ENGINEERING COURSES</b>					
1	SECP 2273	Programming for Engineer	3	3	
2	SETN 1113	Modern Physics	3	3	
3	SETN 1123	Fluid Mechanics	3	3	
4	SETN 1133	Engineering Drawing	3	3	
5	SETN 1143	Introduction to Engineering	3	3	
6	SETN 1224	Electrical Eng. Fundamental with Lab	4	4	
7	SETN 1243	Statics	3	3	
8	SETN 1711	Fluid Mechanics Lab	1	1	
9	SETN 2113	Thermodynamics	3	3	
10	SETN 2123	Strength of Materials	3	3	
11	SETN 2133	Dynamics	3	3	
12	SETN 2213	Nuclear Physics	3	3	
13	SETN 2223	Heat Transfer	3	3	
14	SETN 2243	Nuclear Engineering Fundamentals	3	3	
15	SETN 2393	Numerical Methods for Nuclear Engineers	3	3	
16	SETN 2711	Thermodynamics & Mechanics of Material Lab	1	1	
17	SETN 3113	Nuclear Radiation Protection	3	3	
18	SETN 3123	Nuclear Reactor Materials	3	3	
19	SETN 3173	Engineering Economics & Project Management	3	3	
20	SETN 3213	Nuclear Reactor Theory	3	3	
21	SETN 3223	Instrumentation and Control Eng.	3	3	

22	SETN 3224	Thermal Hydraulics with Lab	4	4	
23	SETN 3233	Radiation Detection and Measurement	3	3	
24	SETN 3253	Nuclear Safety, Safeguard, Security & Regulation	3	3	
25	SETN 3711	Nuclear Physics Lab	1	1	
26	SETN 3721	Nuclear Reactor Lab	1	1	
27	SETN 3915	Industrial Training	5	HL	
28	SETN 4113	Nuclear Fuel Cycle & Waste Management	3	3	
29	SETN 4453	Nuclear Power Plant System	3	3	
30	SETN 4611	Nuclear Eng. Professional Practice	1	1	
31	SETN 4711	Rad. Detection & Measurement Lab	1	1	
32	SETN 4812	Undergraduate Project I	2	2	
33	SETN 4824	Undergraduate Project II	4	3	
34	SETN 4833	Nuclear Eng. System & Design I	3	3	
35	SETN 4834	Nuclear Eng. System and Design II	4	4	
36	SETN 4**3	Elective Nuclear I	3	3	
	SET* 5**3	PRISMS Elective I			
37	SETN 4**3	Elective Nuclear II	3	3	
	SET* 5**3	PRISMS Elective II			
		<b>TOTAL CREDIT OF NUCLEAR ENGINEERING COURSES (a)</b>	<b>104</b>	<b>99</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 OF MATHEMATICS COURSES (b)</b>	<b>12</b>	<b>12</b>	

<b>UNIVERSITY GENERAL COURSES</b>					
<b>Cluster 1: Appreciation of Philosophy, Value and History (Faculty of Social Sciences and Humanities)</b>					
1	UHMS 1182	Appreciation of Ethics and Civilizations (for Local Students)	2	2	
	UHMS 1022	Philosophy and Current Issues (for International Students)			
	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 Communication 2 (for International Students)			
<b>Cluster 2: Generic Skills</b>					
1	UHMT 1012	Graduate Success Attributes	2	2	
2	U*** 2**2	University General 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	UKQF 2**2	Co-Curriculum	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	
2	UHLB 2122	Academic Communication Skills	2	2	
3	UHLB 3132	Professional Communication Skills	2	2	
4	UHL* 1112	Foreign Language Elective	2	2	
<b>Cluster 6: Entrepreneurial Skills</b>					
1	UBSS 1032	Introduction to Entrepreneurship	2	2	
		<b>TOTAL CREDIT of UNIVERSITY GENERAL COURSES (c)</b>	<b>23</b>	<b>23</b>	
		<b>TOTAL CREDIT TO GRADUATE (a + b + c)</b>	<b>139</b>	<b>134</b>	

<b>OTHER COMPULSORY COURSES – PROFESSIONAL SKILLS CERTIFICATE (PSC)</b>			
<b>Students are required to enrol and pass FIVE (5) PSC courses, to be eligible to graduate. Enrol the PSC courses as follows:</b>			
<b>COMPULSORY PSC COURSES (Enrol All 3 Courses)</b>			
1	GLRB0010	Design Thinking for Entrepreneur	
2	GLRM0010	Talent and Competency Management	
3	GLRL0010	English Communication Skills for Graduating Students (ECS)	
<b>ELECTIVE PSC COURSES (Choose Any 2 Courses only)</b>			
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>			