

## 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	SEMO 1503	Ship Engineering Drawing	3	3	
6	SEMO 1332	Naval Architecture I	2	2	
7	SEMM 1911	Experimental Methods	1	1	
8	SEMM 2223	Mechanics of Machines & Vibration	3	3	
9	SEMM 2313	Mechanics of Fluids I	3	3	
10	SEMM 2413	Thermodynamics	3	3	
11	SEMM 2613	Materials Science	3	3	
12	SEMM 2921	Laboratory I	1	1	
13	SEMM 3023	Applied Numerical Methods	3	3	
14	SEMO 3033	Computational Methods in Ocean Engineering	3	3	
15	SEMM 3242	Instrumentation	2	2	
16	SEMM 3623	Materials Engineering	3	3	
17	SEMM 3931	Laboratory II	1	1	
18	SEMM 4902	Engineering Professional Practice	2	2	
19	SEMO 1922	Introduction to Naval Architecture & Offshore Engineering	2	2	
20	SEMO 2123	Ship & Offshore Structures I	3	3	
21	SEMO 2713	Ship & Offshore Production Technology	3	3	
22	SEMO 2323	Marine Hydrodynamics	3	3	
23	SEMO 3512	Ship & Offshore Design	2	2	
24	SEMO 3333	Naval Architecture II	3	3	
25	SEMO 3353	Ship Resistance & Propulsion	3	3	
26	SEMO 3133	Ship & Offshore Structures II	3	3	
27	SEMO 3523	Integrated Ship & Offshore Design Project 1	3	3	
28	SEMO 3813	Marine Transport & Economics	3	3	
29	SEMO 3915	Industrial Training	5	HL	
30	SEMO 4233	Dynamics of Marine Vehicles	3	3	
31	SEMO 4423	Marine & Offshore Engineering System	3	3	

32	SEMO 4533	Integrated Ship & Offshore Design Project II	3	3	
33	SEMO 4823	Marine Management, Safety & Environment	3	3	
34	SEMO 4912	Undergraduate Project I	2	2	
35	SEMO 4924	Undergraduate Project II	4	4	
36	SEMO 4941	Marine Laboratory	1	1	
37	SEMO 4262	Risers & Mooring Dynamics	2	2	
38	SEMO 4xx2	Marine & Offshore Elective	2	2	
		<b>TOTAL CREDIT FOR MECHANICAL ENGINEERING COURSES (A)</b>	<b>101</b>	<b>96</b>	
<b>ELECTRICAL COURSES (School 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>CLUSTER 1: APPRECIATION OF PHILOSOPHY, VALUE &amp; HISTORY</b>					
1	UHS 1012	Islamic & Asian Civilization (for local students only)	2	2	
	UHMS 1022	Malaysian Studies 3 (for international students only)			
2	UHMS 1172	Malaysian Dynamics (for local students only)	2	2	
	UHLM 1012	Malay Language for Communication 2 (for international students only)			
<b>CLUSTER 2: GENERIC SKILLS</b>					
1	UHMT 1012	Graduate Success Attributes	2	2	
2	UHMT 2012	Leadership	2	2	
3.	UHMS 2022	Critical and Creative Thinking	2	2	
4.	UHMS 2032	The Human side of Knowledge Management	2	2	
5.	UHMS 2042	Development and Global Issues	2	2	
6.	UHMT 2042	Guidance & Counselling	2	2	
7.	UHMT 2062	Psychology of Adjustment	2	2	

8.	UBSS 2072	Fundamentals of Intellectual Property Law	2	2	
9.	UBSS 2082	Law for Entrepreneurs	2	2	
10.	UBSS 2092	Entrepreneurship and Enterprise Development	2	2	
11.	UBSS 2102	Social Entrepreneurship	2	2	
12.	UHMS 2112	Engineering Communication	2	2	
13.	UHMS 2122	Human Communication	2	2	
14.	UHMT 2132	Professional Ethics	2	2	
15.	UMJT 2142	Professional Ethics, Safety and Health (Ningen Ryoku)	2	2	
<b>CLUSTER 3: KNOWLEDGE EXPANSION</b>					
1.	UHIT 2302	Science and Technology Thinking	2	2	
2.	UHIT 1022	Science, Technology and Mankind	2	2	
3.	UHII 2012	Al-Qur'an and Human Civilization	2	2	
4.	UHIT 2032	Life Institutions and Sustainable Development	2	2	
5.	UHIZ 2042	Future Studies	2	2	
6.	UHIT 2052	Family Law	2	2	
7.	UHIZ 2062	World Science	2	2	
8.	UHS 2072	Sustainable Economy	2	2	
9.	UHS 2082	Practice and Concept of Halal Management	2	2	
10.	UHII 2092	Philosophy of Islamic Art	2	2	
11.	UHII 2102	Islam and Health	2	2	
12.	UHII 2132	Islamic Entrepreneurship	2	2	
13.	UETS 2142	Sustainable Energy	2	2	
<b>CLUSTER 4: CO-CURRICULUM &amp; SERVICE LEARNING</b>					
1	UKQF 2xx2	Co-curriculum & Service Learning Elective	2	2	
2	UKQT 3001	Extra Curricular Experiential Learning	1	1	
<b>CLUSTER 5: LANGUAGE SKILLS</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	UHLB 1032	Introductory Academic English	2	2	
5	UHLB 1042	Intermediate Academic English	2	2	
6	UHLA 1112	Arabic Language	2	2	
7	UHLJ 1112	Japanese Language 1	2	2	
8	UHLC 1112	Mandarin Language I	2	2	
9	UHLF 1112	French Language	2	2	
10	UHLN 1112	Persian Language	2	2	
11	UHLJ 1122	Japanese Language for Communication I	2	2	

12	UHLM 1112	Malay Language for Communication	2	2	
<b>CLUSTER 6: ENTREPRENEURSHIP</b>					
1	UBSS 1032	Introduction to Entrepreneurship	2	2	
		<b>TOTAL CREDIT FOR UNIVERSITY GENERAL COURSES (D)</b>	<b>23</b>	<b>23</b>	
		<b>TOTAL CREDIT TO GRADUATE (A + B + C + D)</b>	<b>140</b>	<b>135</b>	
Note: # Choose one elective either from Cluster 2 (Generic Skills) or Cluster 3 (Knowledge Expansion) for UxxX 2xx2					
<b>OTHER COMPULSORY COURSES</b>					
<b>PROFESSIONAL SKILLS CERTIFICATE (PSC)</b>					
1	GLL 1001	How To Get Yourself 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			
5	Test of English Communication Skills (TECS)				
	TECS 1001	Oral Interaction			
	TECS 1002	Writing			

## COURSE SYNOPSIS

### COURSE SYNOPSIS FOR B. ENG (NAVAL ARCHITECTURE AND OFFSHORE ENGINEERING)

#### **SEMO 1503 Ship Engineering Drawing**

This course introduces students to the basic of ships and engineering drawing knowledge. It enables students to apply their skills and knowledge of engineering drawing to understand any design via geometric drawing, orthographic projection, isometric and production drawing. Meanwhile, in ship drawing parts, the student will be able to interpret a hull formation through lines plan drawing which consists of body, half breadth and sheer plan projection. Basic terminologies which related to naval architecture and ship drawing will be highlighted in this course.

#### **SEMO 1332 Naval Architecture I**

In this course, students will continue to learn basic naval architecture knowledge. For this subject, students are exposed on how to use the ship particulars and lines plan data in calculating the hydrostatic particulars of a ship. Students are introduced to the methods of hydrostatics and stability calculations. Students are then introduced to design concept as they are required to use their naval architecture knowledge to design an object for floating structure design competition. The subject contents also include the introduction to ship general arrangement. The course includes hands-on individual and group projects