

Course Menu

YEAR 1: SEMESTER 1			
Code	Course	Credit	Pre-Requisite
SEMM 1203	Statics*	3	
SEMO 1503	Ship Engineering Drawing	3	
SEMM 1911	Experimental Methods	1	
SEMO 1922	Introduction to Naval Architecture and Offshore Engineering	2	
SEEU 1002	Electrical Technology	2	
SSCE 1693	Engineering Mathematics I	3	
ULRS 1032	Integrity and Anti-Corruption	2	
UHLB 1112	English Communication Skills	HL	Refer English courses requirement section
TOTAL		16	

YEAR 1: SEMESTER 2			
Code	Course	Credit	Pre-Requisite
SEMM 1013	Programming for Engineers	3	
SEMM 1113	Mechanics of Solids I*	3	SEMM 1203
SEMM 1213	Dynamics*	3	SEMM 1203
SEMO 1332	Naval Architecture I	2	SEMO 1503
SSCE 1793	Differential Equations	3	SSCE 1693***
SEMM 2921	Laboratory I	1	SEMM 1911
ULRS 1182	Appreciation of Ethics and Civilisations		(International students can choose either ULRS 1182 or
UHLM 1012	Malay Language for Communication 2 (For International Students Only)	2	ULRS 1022 but UHLM 1012 is compulsory)
TOTAL		17	

Remarks:

- i. *Core Courses – passing grade is C (50%). Passing grade for other courses is D+ (40%).
- ii. For courses with pre-requisite(s), students MUST OBTAIN the passing grade for the pre-requisite course(s) unless stated otherwise.
- iii. **Students MUST OBTAIN minimum grade D- (30%) for the pre-requisite course.
- iv. ***Students MUST HAVE at least attempted the pre-requisite course.
- v. For courses with pre-requisite(s) in sequence, students MUST ALSO FULFIL all the preceding pre-requisite(s).
- vi. Students MUST OBTAIN at least 20% of total marks in any mechanical engineering courses final examination.

YEAR 2: SEMESTER 1			
Code	Course	Credit	Pre-Requisite
SEMM 2313	Mechanics of Fluids I*	3	SEMM 1203, SEMM 1013**
SEMM 2413	Thermodynamics*	3	
SEMM 2613	Materials Science	3	
SSCE 1993	Engineering Mathematics II	3	SSCE 1693***
ULRF 2XX2	Global Citizen Elective	2	
SEMO2713	Ship and Offshore Production Technology	3	
TOTAL		17	

YEAR 2: SEMESTER 2			
Code	Course	Credit	Pre-Requisite
SEMM 2223	Mechanics of Machines and Vibration*	3	SEMM 1213
SEMO 2123	Ship and Offshore Structures I	3	SEMM 1113
SEMO 2323	Marine Hydrodynamics	3	SEMM 2313
SEEU 2012	Electronics	2	SEEU 1002
SSCE 2193	Engineering Statistics	3	
UHLB 2122	Professional Communication Skills 1	2	
ULRS 1022	Philosophy and Current Issues	2	(International students can choose either ULRS 1182 or ULRS 1022 but UHLM 1012 is compulsory)
UHLM 1012	Malay Language for Communication 2 (For International Students Only)		
TOTAL		18	

Remarks:

- i. *Core Courses – passing grade is C (50%). Passing grade for other courses is D+ (40%).
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- iii. **Students MUST OBTAIN minimum grade D- (30%) for the pre-requisite course.
- iv. ***Students MUST HAVE at least attempted the pre-requisite course.
- v. For courses with pre-requisite(s) in sequence, students MUST ALSO FULFIL all the preceding pre-requisite(s).
- vi. Students MUST OBTAIN at least 20% of total marks in any mechanical engineering courses final examination.

YEAR 3: SEMESTER 1			
Code	Course	Credit	Pre-Requisite
SEMM 3023	Applied Numerical Methods	3	SEMM 1013, SSCE 1793**
UHLX 1112	Foreign Language Elective	2	
SEMO 3512	Ship and Offshore Design	2	SEMO 1332
SEMO 3333	Naval Architecture II	3	SEMO 1332
SEMO 3353	Ship Resistance and Propulsion	3	
SEMO 3931	Marine Laboratory I	1	SEMM 2921
UHLB 3132	Professional Communication Skills 2	2	UHLB 2122
TOTAL		16	

YEAR 3: SEMESTER 2			
Code	Course	Credit	Pre-Requisite
SEMO 3033	Computational Methods in Ocean Engineering	3	SEMO 2123**, SEMO 2323**
SEMM 3242	Instrumentation	2	SEEU 2012**
SEMM 3623	Materials Engineering	3	SEMM 2613
SEMO 3133	Ship and Offshore Structure II	3	SEMO 2123**
SEMO 3523	Integrated Ship & Offshore Design Project I	3	SEMO 3512
ULRS 3032	Entrepreneurship and Innovation	2	
TOTAL		16	

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- iii. **Students MUST OBTAIN minimum grade D- (30%) for the pre-requisite course.
- iv. ***Students MUST HAVE at least attempted the pre-requisite course.
- v. For courses with pre-requisite(s) in sequence, students MUST ALSO FULFIL all the preceding pre-requisite(s).
- vi. Students MUST OBTAIN at least 20% of total marks in any mechanical engineering courses final examination.

SHORT SEMESTER			
Code	Course	Credit	Pre-Requisite
SEMM 3915	Industrial Training	5	##, SEMO 2123**, SEMM 2223**
TOTAL		5	

Remarks:

Obtained minimum of 80 credits

YEAR 4: SEMESTER 1			
Code	Course	Credit	Pre-Requisite
SEMO 4233	Dynamics of Marine Vehicles	3	SEMM 2223, SEMO 2323
SEMO 4423	Marine and Offshore Engineering System	3	SEMM 2413
SEMO 4533	Integrated Ship & Offshore Design Project II	3	SEMO 3523
SEMO 4912	Undergraduate Project I	2	SEMM 2223**, SEMO 2123**
SEMO 4262	Risers & Mooring Dynamics	2	
SXXX xxx3	Free Elective	3	
TOTAL		16	

YEAR 4: SEMESTER 2			
CODE	COURSE	CREDIT	PRE-REQUISITE
SEMM 4902	Engineering Professional Practice	2	At least 3rd year
SEMO 4924	Undergraduate Project II	4	SEMO 4912
SEMO 4823	Marine Management, Safety and Environment	3	
SEMO 4951	Marine Laboratory II	1	
SEMO 4xx2	Marine and Offshore Elective	2	
SEMO 3813	Marine Transport and Economics	3	
TOTAL		15	

Remarks:

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- iii. **Students MUST OBTAIN minimum grade D- (30%) for the pre-requisite course.
- iv. ***Students MUST HAVE at least attempted the pre-requisite course.
- v. For courses with pre-requisite(s) in sequence, students MUST ALSO FULFIL all the preceding pre-requisite(s).
- vi. Students MUST OBTAIN at least 20% of total marks in any mechanical engineering courses final examination.

English Courses Requirement

Students with English qualification shown in table below are exempted from Compulsory Attendance (HL) for UHLB 1112

English prerequisite is shown below:

English Language Tests	UHLB 1112
a) MUET : > Band 4	Exempted
b) IELTS : > Band 5.5	
c) TOEFL: > 525	
d) TOEFL iBT : > 60	
e) CEFR : > B2	

Elective Courses

Choose one (1) from the elective courses

No.	Code	Course
1.	SEMO 4012	Marine Environment
2.	SEMO 4132	Marine Control Engineering
3.	SEMO 4142	Reliability of Ship and Offshore Structures
4.	SEMO 4152	Platform, Pipeline and Sub-Sea Technology
5.	SEMO 4452	Marine Engineering System Project
