

COURSE MENU

YEAR 1: SEMESTER 1			
CODE	COURSE	CREDIT	PRE-REQUISITE
SEMM 1013	Programming for Engineers	3	
SEMM 1203	Statics*	3	
SEMM 1503	Engineering Drawing	3	
SEMM 1911	Experimental Methods	1	
SEMM 1921	Introduction to Mechanical Engineering	1	
SSCE 1693	Engineering Mathematics 1	3	
ULRS 1012	Value and Identity	2	
UHLB 1112	English Communication Skills	HL	Refer English courses requirement section
	Total	16	

YEAR 1: SEMESTER 2			
CODE	COURSE	CREDIT	PRE-REQUISITE
SEMM 1113	Mechanics of Solid I*	3	SEMM 1203
SEMM 1213	Dynamics*	3	SEMM 1203
SEMM 1513	Introduction to Design	3	SEMM 1503
SSCE 1793	Differential Equations	3	SSCE 1693
UHMS 1182	Appreciation of Ethics and Civilisations	2	(International students can choose either UHMS 1182 or UHIS 1022 but UHLM1012 is compulsory)
UHLM 1012	Malay Language for Communication 2 (for International Student Only)		
SEEU 1002	Electrical Technology	2	
SEMM 2921	Laboratory I	1	SEMM 1911
	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) **For courses with pre-requisite(s) in sequence, students MUST ALSO FULFIL all the preceding pre-requisite(s).**
- v) **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 2123	Mechanics of Solid II*	3	SEMM 1113
SEMM 2223	Mechanics of Machines and Vibration*	3	SEMM 1213
SEMM 2313	Mechanics of Fluid I*	3	SEMM 1203, SEMM 1013**
SEMM 2413	Thermodynamics*	3	
UKQF 2XX2	Service Learning and Community Engagement	2	
UHLX 1112	Foreign Language Communication Elective	2	
	Total	16	

YEAR 2: SEMESTER 2			
CODE	COURSE	CREDIT	PRE-REQUISITE
SEMM 2323	Mechanics of Fluid II*	3	SEMM 2313
SEMM 2433	Applied Thermodynamics & Heat Transfer	3	SEMM 2413
SEEU 2012	Electronics	2	SEEU 1002
UHLB 2122	Professional Communication Skills 1	2	
UHS 1022	Philosophy and Current Issues	2	(International students can choose either UHMS 1182 or UHS 1022 but UHLM1012 is compulsory)
SEMM 2613	Materials Science	3	
SSCE 1993	Engineering Mathematics II	3	SSCE1693
	Total	18	

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YEAR 3: SEMESTER 1			
CODE	COURSE	CREDIT	PRE-REQUISITE
SEMM 3233	Control Engineering	3	SEMM 1213**, SSCE 1793**
SEMM 3623	Materials Engineering	3	SEMM 2613**
SEMM 3931	Laboratory II	1	SEMM 2921
SEMP 3713	CAD/CAM	3	
UHLB 3132	Professional Communication Skills 2	2	UHLB 2122
SEMM 3813	Industrial Engineering	3	
SXXX xxx3	Free Elective	3	
	Total	18	

YEAR 3: SEMESTER 2			
CODE	COURSE	CREDIT	PRE-REQUISITE
SEMM 3023	Applied Numerical Methods	3	SEMM 1213, SSCE 1793**
SEMM 3242	Instrumentation	2	SEEU 2012**
SEMM 3523	Component Design	3	SEMM 2123**, SEMM 1513
SEMM 3941	Laboratory III	1	SEMM 3931
SSCE 2193	Engineering Statistic	3	
SEMM 2713	Manufacturing Processes	3	
ULRS 3032	Entrepreneurship and Innovation	2	
	Total	17	

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YEAR 3: SHORT SEMESTER			
CODE	COURSE	CREDIT	PRE-REQUISITE
SEMM 3915	Industrial Training	5	##, SEMM 2123, SEMM 2223**, SEMM 2323**, SEMM 2433**
	Total	5	

Remarks:

Obtained minimum of 80 credits

YEAR 4: SEMESTER 1			
CODE	COURSE	CREDIT	PRE-REQUISITE
SEMM 4533	System Design	3	SEMM 3523
SEMM 4912	Undergraduate Project I	2	SEMM 2123**, SEMM 2223**, SEMM2323**, SEMM 2433**
SEMP 4713	Design for Manufacture and Assembly	3	
SEMP 4723	Manufacturing Automation	3	
SEMP 4xx3	Elective I	3	
SEMP 5xx3	PRISMS Elective I		
	Total	14	

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- iii) ****Students MUST OBTAIN minimum grade D- (30%) for the pre-requisite course.**
- iv) **For courses with pre-requisite(s) in sequence, students MUST ALSO FULFIL all the preceding pre-requisite(s).**
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YEAR 4: SEMESTER 2			
CODE	COURSE	CREDIT	PRE-REQUISITE
SEMM 4902	Engineering Professional Practice	2	
SEMM 4924	Undergraduate Project II	4	SEMM 4912
SEMP 4733	Tooling for Production	3	
SEMP 4xx3	Elective 2	3	
SEMP 5xx3	PRISMS Elective 2		
SEMM 3823	Engineering Management, Safety & Economy	3	
	Total	15	

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