COURSE MENU

YEAR 1 : SEMESTER 1			
CODE	**COURSE**	**CREDIT**	**PRE-REQUISITE**
SEMM 1203	Statics*	3	
SEMM 1503	Engineering Drawing	3	
SEMM 1911	Experimental Methods	1	
SEMM 1921	Introduction to Mechanical Engineering	1	
SEEU1002	Electrical Technology	2	
SSCE 1693	Engineering Mathematics I	3	
ULRS 1012	Value and Identity	2	
UHLB 1112	English Communication Skills	HL	Refer English courses requirement section
	Total	**15**	

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
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 Students Only)		
	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 Solids II*	3	SEMM 1113
SEMM 2313	Mechanics of Fluids I*	3	SEMM 1203
SEMM 2413	Thermodynamics*	3	
SEMM 2921	Laboratory I	1	SEMM 1911
SSCE 1993	Engineering Mathematics II	3	SSCE 1693
UKQF 2XX2	Service Learning and Community Engagement	2	
UHLX 1112	Foreign Language Elective	2	
	Total	**17**	

YEAR 2 : SEMESTER 2			
CODE	COURSE	CREDIT	PRE-REQUISITE
SEMM 2223	Mechanics of Machines and Vibration*	3	SEMM 1213
SEMM 2323	Mechanics of Fluids II*	3	SEMM 2313
SEMM 2433	Applied Thermodynamics and Heat Transfer*	3	SEMM 2413
SEMM 2613	Materials Science	3	
SEEU 2012	Electronics	2	SEEU 1002
UHLB 2122	Professional Communication Skills 1	2	
UHIS 1022	Philosophy and Current Issues	2	(International students can choose either UHMS 1182 or UHIS 1022 but UHLM1012 is compulsory)
	Total	**18**	

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 3 : SEMESTER 1			
CODE	COURSE	CREDIT	PRE-REQUISITE
SEMM 3023	Applied Numerical Methods	3	SEMM 1013, SSCE 1793**
SEMM 3233	Control Engineering	3	SEMM 1213**, SSCE 1793**
SEMM 3523	Components Design	3	SEMM 2123**, SEMM 1513
SEMM 3931	Laboratory II	1	SEMM 2921
SEMV 3012	Automotive Technology	2	
SEMV 3413	Internal Combustion Engines	3	SEMM 2413 SSCE 1793
UHLB 3132	Professional Communication Skills 2	2	UHLB 2122
	Total	**17**	

YEAR 3 : SEMESTER 2			
CODE	COURSE	CREDIT	PRE-REQUISITE
SEMM 3033	Finite Element Methods	3	SEMM 1113**
SEMM 3183	Industrial Engineering	3	
SEMM 2713	Manufacturing processes	3	
SEMV 3512	Automotive Engineering Design I	2	
SEMV 3941	Laboratory III	1	SEMM 3931
ULRS 3032	Entrepreneurship and Innovation	2	
SSCE 2193	Engineering Statistics	3	
	Total	**17**	

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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 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 3622	Materials Technology	2	SEMM 2613**
SEMM 3823	Engineering Management, Safety and Economics	3	
SEMM 4912	Undergraduate Project I	2	SEMM 2123**, SEMM 2223**, SEMM 2323**, SEMM 2433**
SEMV 4212	Automotive Electronics & Instrumentation	2	SEMV 3012,
SEMV 4523	Automotive Engineering Design II	3	SEMV 3512
SXXX xxx3	Free Elective	3	
	Total	**15**	

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 4 : SEMESTER 2			
CODE	COURSE	CREDIT	PRE-REQUISITE
SEMM 4213	Vehicle Dynamics	3	
SEMM 4924	Undergraduate Project II	4	SEMM 4912
SEMV 4793	Automotive Production Technology	3	SEMV 3012, SEMM 2713
SEMX 4xx3	Elective	3	
SEMX 5xx3	PRISMS Elective		
SEMM 4902	Engineering Professional Practice	2	
	Total	**15**	

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.