

## STUDY SCHEME

CURRICULUM STRUCTURE 2016-2020					
BACHELOR OF AEROSPACE ENGINEERING					
Department of Aerospace Engineering					
Faculty of Engineering, Universiti Malaysia Malaysia					
FIRST SEMESTER			SECOND SEMESTER		
CODE	COURSE	CREDIT	CODE	COURSE	CREDIT
<b>YEAR 1</b>					
ECC3001	Engineering Mathematics I	3(3+0)	ECC3002	Engineering Mathematics II	3(3+0)
EMM3103	Statics	3(3+0)	ECC3005	Computer Programming	3(2+1)
EAS3401	Aerospace Materials and Processes	2(2+0)	EMM3104	Dynamics	3(3+0)
EMM3518	Computer Aided Engineering Drawing	3(1+2)	EMM3305	Fluid Mechanics I	3(3+0)
EAS3613	Aerospace Electrical and Electronics	3(2+1)	EAS3612	Avionics	2(2+0)
PRT2008	Agriculture and Man	2(2+0)	BBI2423	Academic Interaction and Presentation	3(2+1)
SKP2203	Islamic Civilisation and Asian Civilisation	2(2+0)			
<b>TOTAL</b>		<b>18</b>	<b>TOTAL</b>		<b>17</b>
<b>YEAR 2</b>					
EMM3409	Strength of Materials I	3(3+0)	EAS3112	Numerical Analysis for Engineering Applications	2(2+0)
EAS3511	Aerothermodynamics	3(3+0)	EAS3204	Aerodynamics II	3(3+0)
EAS3322	Vibration	3(3+0)	EAS3503	Propulsion	3(3+0)
EAS3202	Aerodynamics I	3(3+0)	EAS3801	Space Mechanics	3(3+0)
EAS3931	Aerospace Laboratory I	1(0+1)	EAS3932	Aerospace Laboratory II	1(0+1)
BBI2424	Academic Writing	3(2+1)	SKP2204	Ethnic Relations	2(2+0)
QKXXXX	Credited Co-curriculum	1(0+1)	SKP2101	Malaysian Nationhood	3(3+0)
			QKXXXX	Credited Co-curriculum	1(0+1)
<b>TOTAL</b>		<b>17</b>	<b>TOTAL</b>		<b>18</b>
<b>YEAR 3</b>					
ECC3004	Engineering Statistics	3(3+0)	ECV3001	Engineers and Society	3(2+1)
EAS3205	Flight Mechanics	3(3+0)	EAS3304	Aircraft Stability and Control	3(3+0)
EAS3303	Control Systems Analysis	3(3+0)	EAS3425	Aerospace Structures II	3(3+0)
EAS3434	Aerospace Structures I	3(3+0)	EAS3504	Space Launch Technology	3(3+0)
EAS3802	Satellite Technology	3(3+0)	EAS3723	Fixed Wing Aircraft Design	3(3+0)
EAS3113	Management of Aerospace Industry	2(2+0)	EAS3933	Aerospace Laboratory III	1(0+1)
<b>TOTAL</b>		<b>17</b>	<b>TOTAL</b>		<b>16</b>
<b>YEAR 4</b>					
EAS4901	Industrial Training <sup>1</sup>	5(0+5)	EAS4949B	Bachelor's Project	4(0+4)
EAS4949A	Bachelor's Project	2(0+2)	EASXXXX	Elective III <sup>2</sup>	3(3+0)
EAS4948	Aerospace Design Project	3(0+3)	EASXXXX	Elective IV <sup>2</sup>	3(3+0)
EASXXXX	Elective I <sup>2</sup>	3(3+0)			
EASXXXX	Elective II <sup>2</sup>	3(3+0)			
<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>10</b>
<b>TOTAL CREDIT</b>					<b>129</b>

### NOTA

<sup>1</sup> EAS4901 (Industrial Training ) conducted for 10 weeks during holiday after the end of the second semester of the 3rd year..

<sup>2</sup> EAS\*\*\*\* (Technical Elective) based on the Option chosen. Option or elective courses offered are based on current needs.

**ELECTIVE COURSE OPTIONS**

It is compulsory for the student to choose two out of all technical elective courses offered for each semester and the proposed curriculum structure for technical electives is as followed:

FIRST SEMESTER			SECOND SEMESTER		
CODE	COURSE	CREDIT	CODE	COURSE	CREDIT
EAS4201	Computational Fluid Dynamics	3(3+0)	EAS4202	Fundamentals of Helicopter Flight	3(3+0)
EAS4301	Flight Dynamics	3(3+0)	EAS4303	Automatic Flight Control Systems	3(3+0)
EAS4403	Experimental Stress Analysis	3(3+0)	EAS4401	Finite Element Analysis	3(3+0)
EAS4404	Advanced Composite Materials	3(3+0)	EAS4405	Aeroelasticity	3(3+0)
EAS4412	Non-Destructive Testing Techniques	3(3+0)	EAS4502	Solid Propellant Propulsion	3(3+0)
EAS4501	Air Breathing Engine	3(3+0)	EAS4703	Aerospace Simulation Modeling	3(3+0)
EAS4702	Design Optimization Techniques	3(3+0)	EAS4801	Aerospace Software Engineering	3(3+0)
EAS4803	Spacecraft Dynamics and Control	3(3+0)	EAS4804	Space Environment and Mission Analysis	3(3+0)
			EAS4805	Inhabited Space Module	3(3+0)