

B.E.(Aerospace) Academic Plan 2009

Level I - 24 units

<i>Term</i>	<i>Subject Area</i>	<i>Catalogue Number</i>	<i>Course Description</i>	<i>Units</i>
Sem 1	MECH ENG	1102	Intro to Aerospace Engineering	3.0
Sem 1	ELEC ENG	1009	Electrical and Electronic Engineering IA	3.0
Sem 1	MATHS	1011	Mathematics IA	3.0
Sem 1	C&ENVENG	1010	Engineering Mechanics - Statics	3.0
				12.0
Sem 2	MECH ENG	1006	Design Graphics and Communication	3.0
Sem 2	MECH ENG	1007	Engineering Mechanics -Dynamics	3.0
Sem 2	CHEM ENG	1009	Materials I	3.0
Sem 2	MATHS	1012	Mathematics IB	3.0
				12.0

Level II - 24 units

<i>Term</i>	<i>Subject Area</i>	<i>Catalogue Number</i>	<i>Course Description</i>	<i>Units</i>
Sem 1	MECH ENG	2100	Design Practice	3.0
Sem 1	MATHS	2201	Engineering Maths I	3.0
Sem 1	MECH ENG	2020	Materials and Manufacturing	3.0
Sem 1	MECH ENG	2021	Thermo-Fluids I	3.0
Sem 1	MECH ENG	2501	Mech Eng Level 2 Prac	
				12.0
Sem 2	MECH ENG	2019	Dynamics and Control I	3.0
Sem 2	MECH ENG	2101	Mechatronics IM (includes workshop practises)	3.0
Sem 2	MECH ENG	2002	Stress Analysis and Design	3.0
Sem 2	MATHS	2202	Engineering Maths II	3.0
Sem 2	MECH ENG	2502	Mech Eng Level 2 Prac	
				12.0

Level III - 24 units

<i>Term</i>	<i>Subject Area</i>	<i>Catalogue Number</i>	<i>Course Description</i>	<i>Units</i>
Sem 1	MECH ENG	3026	Aerospace Materials and Structures	3.0
Sem 1	MECH ENG	3105	Sustainability & the Environment	3.0
Sem 1	MECH ENG	3102	Heat Transfer & Thermodynamics	3.0
Sem 1	MECH ENG	3100	Aeronautical Engineering	3.0
Sem 1	MECH ENG	3501	Mech Eng Level 3 Prac	
				12.0
Sem 2	MECH ENG	3101	Applied Aerodynamics	3.0
Sem 2	MECH ENG	3027	Engineering Systems Design and Communication	3.0
Sem 2	MECH ENG	3028	Dynamics and Control II	3.0
Sem 2	MECH ENG	3104	Space Vehicle Design	3.0
Sem 2	MECH ENG	3502	Mech Eng Level 3 Prac	
				12.0

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Level IV - 24 units

<i>Term</i>	<i>Subject Area</i>	<i>Catalogue Number</i>	<i>Course Description</i>	<i>Units</i>
Sem 1	MECH ENG	4129A	Aerospace Honours Project Level IV Part 1 <i>or</i> *	
Sem 1	MECH ENG	4128A	Aerospace Design Project Level IV Part 1 *	3.0
Sem 1	MECH ENG	4106	Aerospace Propulsion	3.0
Sem 1	MECH ENG	4108	Aircraft Design	3.0
Sem 1	MECH ENG	4118	Finite Element Analysis of Structures <i>or</i>	3.0
Sem 1	MECH ENG	4111	CFD for Eng Applications	3.0
Sem 1	MECH ENG	4501	Mech Eng Level 4 Prac	
				12.0
Sem 2	MECH ENG	4100	Advanced Topics in Aerospace Engineering	3.0
Sem 2	MECH ENG	4129B	Aerospace Honours Project Level IV Part 2 <i>or</i> *	
Sem 2	MECH ENG	4128B	Aerospace Design Project Level IV Part 2 *	3.0
Sem 2	MECH ENG	4116	Eng Management & Quality Systems	3.0
Sem 2	MECH ENG	4120	Fracture Mechanics <i>or</i>	3.0
Sem 2	MECH ENG	4104	Advanced Topics in Fluid Mechanics <i>or</i>	3.0
Sem 2	MECH ENG	4114	Corrosion: Principles & Prevention <i>or</i>	3.0
Sem 2	MECH ENG	4122	Mechanical Signature Analysis <i>or</i>	3.0
Sem 2	MECH ENG	4107	Airconditioning <i>or</i>	3.0
Sem 2	MECH ENG	4121	Materials Selection & Failure Analysis – not offered in 2009	3.0
Sem 2	MECH ENG	4502	Mech Eng Level 4 Prac	
				12.0

* Students accepted into the Honours stream will take Aerospace Honours Project Level IV and other students will take Aerospace Design Project Level IV.

Check pre-requisites, co-requisites or restrictions placed on courses (refer to On-line Course Planner)