

**DOUBLE PROGRAM****B.E.(Aerospace)/B.Ec. Academic Plan 2008****No Level 1 intake in 2008****Year 2 - 24 units**

<i>Term</i>	<i>Subject Area</i>	<i>Catalogue Number</i>	<i>Course Description</i>	<i>Units</i>
Sem 1	MECH ENG	2018	Design Practice	4.0
Sem 1	APP MTH	2000	Differential Equations and Fourier Series	2.0
Sem 1	ECON	1000	Principles of Macroeconomics I	3.0
Sem 1	MECH ENG	2021	Thermo-Fluids I	3.0
				<b>12.0</b>
Sem 2	MECH ENG	2019	Dynamics and Control I	3.0
Sem 2	MECH ENG	2011	Mechatronics IM	2.0
Sem 2	APP MTH	2009	Numerical Analysis and Probability and Statistics	2.0
Sem 2	MECH ENG	2002	Stress Analysis and Design	3.0
Sem 2	APP MTH	2002	Vector Analysis and Complex Analysis	2.0
				<b>12.0</b>

**Year 3 - 27 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	ECON	2011	Macroeconomic Theory and Policy II	4.0
Sem 1	MECH ENG	2020	Materials and Manufacturing	3.0
Sem 1	MECH ENG	3031	Thermo-Fluids 2	3.0
				<b>13.0</b>
Sem 2	MECH ENG	3027	Design and Communication	3.0
Sem 2	MECH ENG	3028	Dynamics and Control II	3.0
Sem 2	ECON	2009	Consumers, Firms and Markets II	4.0
Sem 2	PHYSICS	2010	Space Science and Astrophysics II	4.0
				<b>14.0</b>

**Year 4 - 26 units**

<i>Term</i>	<i>Subject Area</i>	<i>Catalogue Number</i>	<i>Course Description</i>	<i>Units</i>
Sem 1	ECON	2006	Economic and Financial Data Analysis II	4.0
				<b>4.0</b>
Sem 2	MECH ENG	3016	Aeronautical Engineering I	2.0
Sem 2	COMMGMT	2007	Organisational Behavior II	4.0
				<b>6.0</b>
Plus at least 16 units of Level III Economics courses chosen from those listed in the Specific Academic Program Rules of the degree of Bachelor of Economics				<b>16.0</b>

*NOTE: B.Ec. students currently must take an Economic History course to qualify for the B.Ec. degree. Please refer to the Specific Plan Rules of the B.Ec. degree.*

## B.E.(Aerospace)/B.Ec. Academic Plan 2008

### Year 5 - 26 units

<i>Term</i>	<i>Subject Area</i>	<i>Catalogue Number</i>	<i>Course Description</i>	<i>Units</i>
Sem 1	MECH ENG	4035A	Aerospace Honours Project Level IV Part 1 <i>or</i> *	
Sem 1	MECH ENG	4051A	Aerospace Design Project Level IV Part 1 *	4.0
Sem 1	MECH ENG	4036	Aerospace Propulsion 1	2.0
Sem 1	MECH ENG	3017	Sustainability and the Environment	2.0
Sem 1	MECH ENG	4038	Engineering Management & Professional Practice	2.0
Sem 1	MECH ENG	3020	Heat Transfer	2.0
Sem 1	MECH ENG	4062	Aircraft Design	2.0
				<b>14.0</b>
Sem 2	MECH ENG	4063	Advanced Topics in Aerospace Eng	2.0
Sem 2	MECH ENG	4035B	Aerospace Honours Project Level IV Part 2 <i>or</i> *	
Sem 2	MECH ENG	4051B	Aerospace Design Project Level IV Part 2 *	4.0
				<b>6.0</b>
Elective courses to the value of at least 6 units				<b>6.0</b>

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

### ELECTIVES \*

<i>Term</i>	<i>Subject Area</i>	<i>Catalogue Number</i>	<i>Course Description</i>	<i>Units</i>
Sem 1	MECH ENG	4011	Advanced Automatic Control (aerospace)	2.0
Sem 1	MECH ENG	4020	Advanced Vibrations (aerospace)	2.0
Sem 1	MECH ENG	4002	Combustion Technology and Emissions Control	2.0
Sem 1	MECH ENG	4004	Engineering Acoustics	2.0
Sem 1	MECH ENG	4027	Robotics M	2.0
Sem 1	MECH ENG	4025	Topics in Welded Structures	2.0
Sem 1	MECH ENG	4040	High Speed Aerodynamics	2.0
Sem 1	MECH ENG	4059	Finite Element Analysis of Structures	2.0
Sem 1	MECH ENG	4046	CFD for Engineering Applications	
Sem 2	MECH ENG	4023	Advanced Topics in Fluid Mechanics	2.0
Sem 2	MECH ENG	4037	Aerospace Propulsion II (aerospace)	2.0
Sem 2	MECH ENG	4013	Air Conditioning	2.0
Sem 2	MECH ENG	4033	Mechanical Signature Analysis	2.0
Sem 2	MECH ENG	4039	Finance for Engineers	2.0
Sem 2	MECH ENG	4003	Fracture Mechanics	2.0
Sem 2	MECH ENG	4024	Materials Selection & Failure Analysis	2.0
Sem 2	MECH ENG	4026	Environmental and Architectural Acoustics	2.0
Sem 2	MECH ENG	4040	Biomechanical Eng	2.0
Sem 2	MECH ENG	4061	Corrosion: Principles and Prevention	2.0

\* Not all electives are offered each year. Information as to which courses are to be offered in a given year will be available at the time of enrolment

**Note that pre-requisites, co-requisites or restrictions may be placed on courses (refer to 2008 Calendar or 2008 On-line Course Planner)**