

**DOUBLE PROGRAM****B.E.(Aerospace)/B.Sc. Academic Plan 2008****NO 2008 Intake**

**Students commencing this program in 2008 need to refer to *NEW 2008 Bachelor of Engineering in Aerospace Engineering / Bachelor of Science***

**Year 2 - 25 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	MECH ENG	2020	Materials and Manufacturing	3.0
Sem 1	MECH ENG	2021	Thermo-Fluids I	3.0
				<b>12.0</b>
Sem 2	MECH ENG	1006	Design Graphics and Communication M	3.0
Sem 2	MECH ENG	2019	Dynamics and Control I	3.0
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>13.0</b>

**Year 3 - 26 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	PHYSICS	2100	Physics IIA	4.0
Sem 1	MECH ENG	3025	Space Vehicle Design	2.0
Sem 1	MECH ENG	3031	Thermo-Fluids II	3.0
				<b>12.0</b>
Sem 2	MECH ENG	3027	Design and Communication	3.0
Sem 2	MECH ENG	3028	Dynamics and Control II	3.0
Sem 2	PHYSICS	2200	Physics IIB	4.0
Sem 2	PHYSICS	2010	Space Science and Astrophysics II	4.0
				<b>14.0</b>

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

### Year 4 - 28 units

Term	Subject Area	Catalogue Number	Course Description	Units
Sem 1	MECH ENG	3017	Sustainability and the Environment	2.0
Sem 1	MECH ENG	3020	Heat Transfer	2.0
				<b>4.0</b>
Sem 2	MECH ENG	3016	Aeronautical Engineering I	2.0
Sem 2	MECH ENG	2011	Mechatronics IM	2.0
				<b>4.0</b>
			Level III Physics/Science courses	20.0

### Year 5 – 26 units

Term	Subject Area	Catalogue Number	Course Description	Units
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 I	2.0
Sem 1	MECH ENG	4038	Engineering Management and Professional Practice	2.0
Sem 1	MECH ENG	4062	Aircraft Design	2.0
Sem 1	PHYSICS	3013	Astrophysics III	2.0
				<b>12.0</b>
Sem 1	MECH ENG	4035B	Aerospace Honours Project Level IV Part 2 <i>or</i> *	
Sem 1	MECH ENG	4051B	Aerospace Design Project Level IV Part 2 *	4.0
Sem 2	PHYSICS	3014	Atmospheric & Environmental Physics III	2.0
				<b>6.0</b>
			Elective courses to the value of at least 8 units (2 units must be courses offered by Maths or Science(Physics))	8.0

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

### ELECTIVES \*

Term	Subject Area	Catalogue Number	Course Description	Units
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	4046	CFD for Engineering Applications	2.0
Sem 1	MECH ENG	4027	Robotics M	2.0
Sem 1	MECH ENG	4025	Topics in Welded Structures – Not offered in 2008	2.0
Sem 1	MECH ENG	4011	Adv Automatic Control	2.0
Sem 1	MECH ENG	4059	Finite Element Analysis of Structures	2.0
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	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	4057	Biomechanical Engineering	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. With the approval of the Head of the School of Mechanical Engineering, courses offered by other schools within the University may be included in the selection of electives. Of the 3 electives chosen, 2 must be those offered by the School of Mechanical Engineering.

\*\* Not offered by the School of Mechanical Engineering

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