

COMBINED PROGRAM

B.E.(Aerospace)/B.A. Academic Plan 2008

No level 1 intake in 2008

Year 2 – 27 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	2021	Thermo-Fluids I	3.0
Sem 1			Level II Arts course(s) to the value of 4 units	4.0
				13.0
Sem 2	MECH ENG	1006	Design Graphics and Communication M	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
Sem 2			Level II Arts course(s) to the value of 4 units	4.0
				14.0

Year 3 - 24 units

<i>Term</i>	<i>Subject Area</i>	<i>Catalogue Number</i>	<i>Course Description</i>	<i>Units</i>
Sem 1	MECH ENG	2020	Materials and Manufacturing	3.0
Sem 1	MECH ENG	3025	Space Vehicle Design	2.0
Sem 1			Level III Arts course(s) to the value of 6 units	6.0
				11.0
Sem 2	MECH ENG	2019	Dynamics and Control I	3.0
Sem 2	PHYSICS	2010	Space Science and Astrophysics II	4.0
Sem 2			Level III Arts course(s) to the value of 6 units	6.0
				13.0

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Year 4 – 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	MECH ENG	3017	Sustainability & Environment	2.0
Sem 1	MECH ENG	3020	Heat Transfer	2.0
Sem 1	MECH ENG	3031	Thermo-Fluids II	3.0
Sem 1			Level I Arts course(s) to the value of 3 units	3.0
				13.0
Sem 2	MECH ENG	3016	Aeronautical Engineering I	2.0
Sem 2	MECH ENG	3027	Design and Communication	3.0
Sem 2	MECH ENG	3028	Dynamics and Control II	3.0
Sem 2	MECH ENG	2011	Mechatronics IM	2.0
Sem 2			Level I Arts course(s) to the value of 3 units	3.0
				13.0

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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 I	2.0
Sem 1	MECH ENG	4040	High-Speed Aerodynamics	2.0
Sem 1	MECH ENG	4038	Engineering Management & Professional Practice	2.0
Sem 1	MECH ENG	4062	Aircraft Design	2.0
				12.0
Sem 2	MECH ENG	4063	Adv 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
				6.0
Elective courses to the value of at least 8 units				6.0

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

ELECTIVES *

<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	2.0
Sem 1	MECH ENG	4020	Advanced Vibrations	2.0
Sem 1	MECH ENG	4002	Combustion Technology and Emissions Control	2.0
Sem 1	APP MTH	4007	Computational Fluid Dynamics (Engineering) **	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	4046	CFD for Engineering Applications	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	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	4033	Mechanical Signature Analysis	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	4061	Corrosion: Principles and Prevention	2.0
Sem 2	MECH ENG	4057	Biomechanical Eng	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 four electives chosen, three must be those offered by the School of Mechanical Engineering.

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

Arts Component

To satisfy the requirements of the Arts component of this combined program, students must pass a total of 32 units of Arts courses comprising 8 units at Level II and 12 units at Level III forming an approved major sequence and a further 12 units (at any level). See course advisers from that area for queries relating to Arts courses.