

B.E.(Automotive) 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	ELEC ENG	1009	Electrical and Electronic Engineering 1A	3.0
Sem 1	MECH ENG	1101	Intro to Automotive Engineering	3.0
Sem 1	MATHS	1011	Mathematics 1A	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 1	3.0
Sem 2	MATHS	1012	Mathematics 1B	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 & Manufacturing	3.0
Sem 1	MECH ENG	2021	Thermo-fluids I	3.0
Sem 1	MECH ENG	2501	Mech Eng Level 2 Prac	3.0
				12.0
Sem 2	MECH ENG	2019	Dynamics and Control I	3.0
Sem 2	MECH ENG	2101	Mechatronics 1M includes Workshop Practice	3.0
Sem 2	MATHS	2202	Engineering Maths II	3.0
Sem 2	MECH ENG	2002	Stress Analysis and Design	3.0
Sem 2	MECH ENG	2502	Mech Eng Level 2 Prac	3.0
				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	3033	Automotive 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	3103	Manufacturing Eng	3.0
Sem 1	MECH ENG	3501	Mech Eng Level 3 Prac	3.0
				12.0
Sem 2	MECH ENG	3101	Applied Aerodynamics	3.0
Sem 2	ELEC ENG	3025	Power Electronics & Drive Systems M	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	3502	Mech Eng Level 3 Prac	3.0
				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	4130A	Automotive Design Project Level IV Part 1 <i>or</i>	
Sem 1	MECH ENG	4131A	Automotive Honours Project Level IV Part 1	3.0
Sem 1	ELEC ENG	4103	Advanced Computer Aided Engineering	3.0
Sem 1	MECH ENG	4118	Finite Element Analysis of Structures	3.0
Sem 1	MECH ENG	4111	CFD for Engineering Applications	3.0
Sem 1	MECH ENG	4501	Mech Eng Level 4 Prac	
				12.0
Sem 2	MECH ENG	4130B	Automotive Design Project Level IV Part 2 <i>or</i>	
Sem 2	MECH ENG	4131B	Automotive Honours Project Level IV Part 2	3.0
Sem 2	MECH ENG	4110	Automotive Vehicle Dynamics & Safety	3.0
Sem 2	MECH ENG	4117	Finance for Engineers	3.0
Sem 2	MECH ENG	4116	Engineering Management & Quality Systems	3.0
Sem 2	MECH ENG	4502	Mech Eng Level 4 Prac	
				12.0

Students accepted into the Honours stream will take Automotive Honours Project Level IV and other students will take Automotive Design Project Level IV

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