

<b>Programme Name</b>	<b>Bachelor of Engineering (Honours) (Mechanical)</b>
<b>Programme Description</b>	The objective of BE (Hons) (Mechanical) programme is to provide industry with an adequate number of capable and trained personnel at graduate level who have acquired a sound knowledge and understanding of the principles and processes of mechanical engineering. Mechanical Engineering is concerned with the design, development, research, evaluation, manufacture, installation, testing, operation, maintenance and management of machines, mechanical and mechatronic systems, automated systems and robotic devices, heat transfer processes, thermodynamic and combustion systems, fluid and thermal energy systems, materials and materials handling systems, manufacturing equipment and process plant.
<b>Majors</b>	Mechanical Engineering
<b>Minimum Requirements</b>	Pass in Year 13 with 280 out of 400 marks with pass (70% or more) Mathematics & Physics (50% or more) in English, and 1 other Science or Technology subject OR Foundation Science with GPA of 3.00 or more.
<b>Duration</b>	4 years
<b>Programme Type</b>	Bachelor's Degree
<b>College Name</b>	College of Engineering, Science and Technology
<b>Campus</b>	Derrick Campus, Samabula
<b>Credit Points</b>	480

<b>Programme Structure</b>		
<b>Course Code</b>	<b>Course Title</b>	<b>Credit Points</b>
<b>Year 1 Semester 1</b>		
COM 502	Engineering Communication and Practices	15
MEB 502	Engineering Materials	15
CEB 503	Computer Aided Drafting and Modelling	15
MTH 517	Mathematics for Engineers I	15
<b>Year 1 Semester 2</b>		
EEB 501	Introduction to Electrical and Electronics Engineering	15
CSC 501	C++ Programming for Engineers	15
MEB 503	Engineering Mechanics	15
MTH 518	Mathematics for Engineers II	15
<b>Year 2 Semester 1</b>		
MTH 618	Mathematics for Engineers III	15
MEB 602	Manufacturing Technology	15
MEB 604	Computer Aided Design and Analysis	15
MEB 603	Dynamics	15
<b>Year 2 Semester 2</b>		
MEB 606	Engineering Management	15
MEB 605	Fluid Mechanics	15
MEB 607	Solid Mechanics	15

PEB 601	Design Project I	15
	<b>Year 3 Semester 1</b>	
MEB 702	Quantitative Techniques	15
MEB 703	Thermodynamics	15
MEB 704	Mechatronics	15
PEB 702	Engineering and Society	15
	<b>Year 3 Semester 2</b>	
MEB 705	Mechanical Behaviour of Materials	15
MEB 706	Mechanisms and Dynamics of Machinery	15
MEB 707	Heat Transfer	15
PEB 701	Design Project II	15
	<b>Year 4 Semester 1</b>	
MEB 801	Advanced Industrial Computing	15
MEB 802	Advanced Operations Management	15
MEB 803	Mechanical Design and Analysis	15
PEB 801	Capstone Design Project I	15
	<b>Year 4 Semester 2</b>	15
	Elective	15
MEB 806	Internal Combustion Engines & Power Generation	15
PEB 802	Capstone Design Project II	30
	<b>Total Credit Points</b>	<b>480</b>
	<b>Elective</b>	
MEB 804	Advance Manufacturing Technology	15
MEB 805	Automation Systems	15

Course Prerequisite		
Course Code	Course Title	Prerequisite
	<b>Year 1 Semester 1</b>	
COM 502	Engineering Communication and Practices	
EEB 500	Introduction to Electrical and Electronics Engineering	
CEB 603	Computer Aided Drafting and Modelling	
MTH 517	Mathematics for Engineers I	
	<b>Year 1 Semester 2</b>	
MEB 502	Engineering Materials	
CSC 501	C++ Programming for Engineers	
MEB 503	Engineering Mechanics	
MTH 518	Mathematics for Engineers II	
	<b>Year 2 Semester 1</b>	
MTH 618	Mathematics for Engineers III	
MEB 602	Manufacturing Technology	
MEB 604	Computer Aided Design and Analysis	
MEB 603	Dynamics	

	<b>Year 2 Semester 2</b>	
MEB 606	Engineering Management	
MEB 605	Fluid Mechanics	
MEB 607	Solid Mechanics	
PEB 601	Design Project I	
	<b>Year 3 Semester 1</b>	
MEB 702	Quantitative Techniques	
MEB 703	Thermodynamics	
MEB 704	Mechatronics	
PEB 702	Engineering and Society	
	<b>Year 3 Semester 2</b>	
MEB 705	Mechanical Behaviour of Materials	
MEB 706	Mechanisms and Dynamics of Machinery	
MEB 707	Heat Transfer	
PEB 701	Design Project II	
	<b>Year 4 Semester 1</b>	
MEB 801	Advanced Industrial Computing	
MEB 802	Advanced Operations Management	
MEB 803	Mechanical Design and Analysis	
PEB 801	Capstone Design Project I	
	<b>Year 4 Semester 2</b>	
	Elective	
MEB 806	Internal Combustion Engines & Power Generation	
PEB 802	Capstone Design Project II	
Total Credit Points		
	Elective	
MEB 804	Advance Manufacturing Technology	
MEB 805	Automation Systems	