

Programme	Diploma in Mechanical Engineering
Programme Description	This Programme aims to produce graduates who will meet the need to cope with the challenge of increased engineering demand and in view of the growing awareness of society towards the environment. Graduates with a sound scientific and technical knowledge who are also sensitive to the needs of the society and environment are the need of the hour. The Programme has been designed in such a way so as to allow the graduates develop a basic all-round knowledge in various engineering fields and at the same time enable them to gain a high level of professionalism in their chosen field of engineering with an insight into engineering management principles. The Programme also allows them to understand the principles of rational use of resources and inculcates in them, organizational discipline and basic supervisory skills which will prove beneficial to them and to the organization they would serve in, after finishing their education.
Majors	Mechanical Engineering
Minimum Requirements	<ul style="list-style-type: none"> ➤ Pass in Year 12 with 200 out of 400 marks with 50% minimum marks in English, Mathematics, Physics/ Technical Drawing/Applied Technology /Chemistry, and 1 other science or Technology subject ➤ Holders of Certificates at Level IV or equivalent in relevant discipline may also be admitted into the Programme. ➤ Matured applicants with relevant industrial experience subject to the approval of the Dean CEST.
Duration	3 years
Programme Type	Diploma
College Name	Engineering Science and Technology
Campus	Derrick
Credit Points	360

Programme Structure			
Course Code	Course Title	Prerequisites	Credit Points
Year 1 Semester 1			
COM402	Technical Comm. for Engineers	MER	12
MTH410	Engineering Mathematics I	MER	12
MCD517	Applications of Material Science	MER	12
MCD518	Engineering Graphics	MER	12
CSD410	Introduction to Computer Programming	MER	12
Year 1 Semester 2			
MTH519	Engineering Mathematics II	MTH410	12
EED460	Electrical and Electronics for Engineering	NONE	12
MCD521	Applied Mechanics I: Statics	MCD517	12
MCD522	Applied Thermodynamics	MER	12
MCD523	Engineering Workshop Practice	MER	12
Year 2 Semester 1			

MCD531	3D Solid Modeling and Analysis	MCD518	12
MCD532	Plant Engineering	MER	12
MCD533	Machine Design	MCD521	12
MCD534	Fluid Mechanics and Machinery	MCD521	12
MCD535	Mechanical Workshop Practice	MCD522	12
	Year 2 Semester 2		
MCD641	Manufacturing Processes	MER	12
MCD642	Instrumentation & Control	EEE460	12
MCD658	Power Plant Engineering	MER	12
PED601	Engineering Project Management	MER	12
MCD644	Mechanical Project	MER	12
	Year 3 Semester 1		
MCD651	Solid Mechanics	MCD533	12
MCD652	Applied Mechanics II: Dynamics	MCD534	12
MCD653	Renewable Energy Technology and Sustainability	MER	12
PED602	Engineering Capstone Project	MER	12
MCDXXX	Elective 1		12
	Electives		
MCD656	Advanced Manufacturing Technology		12
MCD657	Intro to Automation systems		12
MTH619	Engineering Mathematics III	MER	12
	Year 3 Semester 2		
PED600	Industrial Attachment		60
Total Credit Points			360