

UT-VU CURRICULUM BSC MECHANICAL ENGINEERING

YEAR 1

SEMESTER 1	MANUFACTURING	
Statics, Mechanics of Materials and Linear Algebra	Continuous Assessment 1	
Manufacturing		
Materials Science		
Project: Manufacturing and Academic and Professional skills		
SEMESTER 2	ENERGY TRANSITION & SUSTAINABILITY	
Electricity & Magnetism	Continuous Assessment 2	
Thermodynamics, Sustainable Engineering Technology and Calculus		
Project: Energy Systems Engineering, Life Cycle Analysis and Academic and Professional skills		

YEAR 2

SEMESTER 1	MAINTENANCE & RESILIENCE	
Dynamics and Mathematical Analysis	Continuous Assessment 3	
Materials Science and Manufacturing	Experimental Methods	
Tribology and Manufacturing		
Project: Design for Maintenance and Maintenance Monitoring, and Academic and Professional skill		
SEMESTER 2	TECHNOLOGY FOR HEALTHCARE	
Fluid Mechanics and Calculus	Heat Transfer	Continuous Assessment 4
Elasticity Theory + FEM	Smart Factories, Production Management and Statistics and Probability	
Design Engineering		
Project: Analysis, Design of a Medical Instrument, Factory Design for the product and Academic and Professional skills		

YEAR 3

SEMESTER 1	MINOR	
SEMESTER 2	SMART MANUFACTURING	BSc Assignment
Precision and Control Engineering and Mathematical Analysis	BSc Assignment and Research Skills	Continuous Assessment 5
Project: Robotics & Mechatronics and Academic and Professional Skills		