

BE(Hons) Mechanical Engineering

Intermediate Year	
S1	S2
EMTH 118 Eng Math 1A	EMTH 119 Eng Math 1B
ENGR 101 Foundations of Eng	ENGR 102 Eng Mechanics
PHYS 101 Eng Physics A	EMTH171 Math Model. and Comp.
CHEM 111 Chemical Principles & Processes (S1 or S2)	
S1 or S2 ELECTIVE *	

1 st Pro Year	
S1	S2
EMTH 210 Eng Math 2	EMTH 271 Math. Model. and Comp. 2
ENME 201 Design Communication	ENME 221 Eng Design and Manufact.
ENME 202 Stress, Strain and Def. in Machine Elements	ENME 207 Materials Science and Eng
ENME 204 Introduction to Thermo-fluids engineering	ENME 203 Dynamics and Vibrations

2 nd Pro Year	
S1	S2
ENME 303 Controls and Vibrations	ENME 302 Comp. and Applied Mech Analysis
ENME 301 Eng Design and Production Quality	ENME 311 Eng Design and Product Management
ENME 304 Eng. Fluid Mechanics	ENME 305 Thermo and Heat Transfer
ENME 307 Performance of Eng Materials	ENME 313 Electro Tech for Mech Eng

3 rd Pro Year	
S1	S2
ENME 408 Honours R&D Project	
ENME 401 Mech Systems Design	ENME 418 Eng Mgmt and Prof Practice for Mech Eng
ELECTIVE 1	ELECTIVE 3
ELECTIVE 2	ELECTIVE 4

FOUR FINAL YEAR ELECTIVES FROM THESE STREAMS OF CORE ELECTIVES (OFFERED ANNUALLY) AND OTHER ELECTIVES:

CONTROLS AND ROBOTICS ENME403 Linear Systems Control and System Identification ENME423 Instrumentation and Sensors ENMT482 Robotics	THERMO-FLUIDS-ENERGY ENGR401 Computational Fluid Mechanics ENME404 Aerodynamics and Ground Vehicle Dynamics ENME405 Energy Systems Engineering	BIOENGINEERING MDPH401 Anatomy and Physiology ENME409 Physiological Simulation ENME419 Biological Fluid Dynamics
DYNAMICS, VIBRATIONS AND ACOUSTICS ENME402 Advanced Vibrations and Acoustics	MATERIALS ENGINEERING ENME407 Advanced Materials Science and Engineering ENME417 Advanced Composite, Polymeric and Ceramic Materials	DESIGN AND MANUFACTURING ENME406 Engineering Product Design & Analysis ENME411 Advanced Mechanical System Design

- *COSC121 or PHYS102 recommended but no requirement to take either

- See College website for requirements.