

1st Year Engineering

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|----|---------------------------------------|---------------------------------------|---|--|
| S1 | ENGR101 Foundations of Engineering | EMTH118 Engineering Mathematics 1A | PHYS101 Engineering Physics A | CHEM111 Chemical Principles and Processes |
| S2 | ENGR102 Engineering Mechanics | EMTH119 Engineering Mathematics 1B | COSC 131 Introduction to Programming for Engineers | |

EMTH210
Engineering Mathematics 2

ENME221
Engineering Design and Manufacture

ENME199 Workshop Training Course for Mechanical and Mechatronics Engineering

3rd Year Engineering

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|----|--|--|---|--|
| S1 | ENME301 Engineering Design and Production Management | ENME303 Controls and Vibrations | ENME307 Performance of Engineering Materials | ENME314 Fluid Mechanics |
| S2 | ENME302 Computational and Applied Mechanical Analysis | ENME311 Mechanical Engineering Design | ENME315 Heat Transfer | ENME313 Electro Technology for Mechanical Engineers |

4th Year Engineering

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|----|---------------------------------|---|------------|------------|
| S1 | ENME 408 Honours R&D Project | ENME 401 Mechanical Systems Design | ELECTIVE 1 | ELECTIVE 2 |
| S2 | | ENME 418 Engineering Management and Professional Practice for Mechanical Engineers | ELECTIVE 3 | ELECTIVE 4 |

CONTROLS AND ROBOTICS
ENME403 Linear Systems and Systems Identification (S1)

Final Year Electives

DESIGN AND MANUFACTURING
ENME492 Industry 4.0 Intelligent Manufacturing (S1)
ENME404 Eng Product Design & Analysis (S2)
ENME411 Advanced Mech System Design (S2)

BIOMEDICAL ENGINEERING
MDPH401 Anatomy and Physiology (S1)
MDPH406 Medical Imaging (S2)
ENME455 Biomechanics (S2)