

Indian Institute of Technology Goa

B.Tech. Mechanical Engineering Curriculum – 2018 Batch

Semester 1
Computer Programming & Utilization
Calculus
Quantum Physics
Physical Chemistry
Organic Chemistry & Inorganic Chemistry
National Sports Organisation
Chemistry Lab

Semester 2
Engineering Mechanics (DIC)
Linear Algebra
Ordinary Differential Equations
Electricity and Magnetism
Lab - Fundamentals of CAD and Manufacturing
Biology
National Sports Organisation
Physics Lab
Communicative English

Semester 3
Thermodynamics
Fluid Mechanics
Mechanics of Materials
Introduction to Electrical and Electronic Circuits
Economics
Differential Equations 2

Semester 4
Manufacturing Process 1
Numerical Analysis
Engineering Metallurgy
Mechanical Measurements
Fluid Mechanics Lab
Solid Mechanics Lab
Machine Drawing Lab

Semester 5
Applied Thermodynamics
Manufacturing Processes II
Language and Society
Kinematics & Dynamics of Machines

Semester 6
Machine Design
Industrial Engineering and Operations Research
Environmental Studies
Environmental Studies, Science and Engineering
Elective 1
Heat Transfer

Semester 7
6 MONTHS INTERNSHIP
OR
BTP
Elective 1
Elective 2

Semester 8
BTP Phase 2/Elective 1
Elective 2
Elective 3
Elective 4

List of Electives offered

Advance Convective Heat Transfer

Computational Heat and Fluid Flow

Fundamentals of Combustion

Finite Element Method

Mechanics of Composite Materials

Microscale Transport Phenomena and Microfluidics

Energy, Environment and Economics

Gas Dynamics

Continuum Mechanics

Mathematical Methods

Computer integrated Manufacturing

Introduction to Scientific and Parallel computing
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Introduction to Interfacial science and Nanotechnology

Fracture, Fatigue and Durability of Materials
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