

Indian Institute of Technology Goa

B.Tech. Electrical Engineering Curriculum

– 2018 Batch

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

Semester 2
Introduction to Electrical and Electronics Circuits
Linear Algebra
Ordinary Differential Equations
Electricity and Magnetism
Fundamentals of CAD and Manufacturing
Biology
National Sports Organisation
Physics Lab
Communicative English

Semester 3
Electronic Devices
Digital Circuits Lab
Digital Systems
Network Theory
Electronic Devices Lab
Economics
Complex Analysis
Differential Equations II

Semester 4
Analog Circuits
Signals and Systems
Electrical Machines
Analog Lab
Machines Lab

Semester 5
Power Electronics
Electromagnetic Waves
Communication Systems
Probability and Random Processes
Language and Society
Data Structures and Algorithms (optional)

Semester 6
Control Systems
Digital Communication
Power Systems
Digital Signal Processing
Communications Lab
Electronic System Design Lab
Elective

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
Computer Graphics using OpenGL
Numerical Simulation and its applications
Introduction to Quantitative Finance
Analytical Techniques Lab
Computer Architecture