

Indian Institute of Technology Goa

B.Tech. Electrical Engineering Curriculum

– 2019 Batch

Semester 1
Computer Programming
Calculus
Quantum Physics
Physical Chemistry
Organic Chemistry & Inorganic Chemistry
National Sports Organisation
Chemistry Lab
Introduction to Profession
Introduction to Manufacturing
Foundation Programme in Humanities

Semester 3
Electronic Devices and Lab
Digital Circuits Lab
Electromagnetic Waves
Signals and Systems
Complex Analysis
Differential Equations II
Open Elective

Semester 5
Power Electronics and Lab
Digital Signal Processing and Lab
Digital Communication Systems and Lab
Control Systems and Lab
Open Elective

Semester 7
6 MONTHS INTERNSHIP
OR
BTP
Elective 1
Elective 2

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

Semester 4
Analog Circuits and Lab
Analog Communication Systems
Electrical Machines and Lab
Probability and Random Processes
Open Elective

Semester 6
Power Systems
Embedded Systems and Lab
Program Elective I
Program Elective II
Open Elective

Semester 8
BTP Phase 2/ Program Elective 1
Program Elective II
Program Elective III/ Open Elective I
Open Elective II

List of Open Electives offered

Computer Graphics using OpenGL

Numerical Simulation and its applications

Introduction to Quantitative Finance

Language and Society

Aerosol Technology

Machine Learning

Economics

List of Program Electives offered
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Analog Integrated Circuit Design

System Identification and Adaptive Control
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Insulation in Power Apparatus and System
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Power Electronic Converters
