

Indian Institute of Technology Goa

*B.Tech. Computer Science and
Engineering Curriculum – 2018 Batch*

Semester 1

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

Semester 2

Data Structures and Algorithms
Linear Algebra
Ordinary Differential Equations
Communicative English
Fundamentals of CAD and Manufacturing
Electricity and Magnetism
Biology
National Sports Organisation
Data Structures and Algorithms Lab
Physics Lab

Semester 3

Discrete Structures
Digital Logic Design
Introduction to Electrical and Electronic Circuit
Economics
Software Systems Lab
Digital Logic Design Lab

Semester 4

Design and Analysis of Algorithms
Computer Networks
Automata Theory
Data Analysis and Interpretation
Numerical Analysis
Computer Networks Lab

Semester 5

Artificial Intelligence
Computer Architecture
Logic in Computer Science
Elective
Language & Society
Artificial Intelligence Lab
Computer Architecture Lab

Semester 6

Foundations of Machine Learning
Operating Systems
Environmental Studies
Environmental Studies, Science & Engineering
Elective-1
Elective-2
Operating Systems Lab

Semester 7

6 MONTHS INTERNSHIP
OR
BTP
Elective 1

Semester 8

Yet to be finalised

Elective 2

*Electives yet to be finalised

List of Electives offered in Semester 5
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Programming Language Paradigms

Algebraic Algorithms

List of Electives offered in Semester 6
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Optimization: Theory and Algorithms

Computer Graphics using OpenGL

Higher dimensional data science
