

Course Structure for Bachelor of Science

F.Y.B.Sc

Electronics

SEMESTER - I

- ☞ Physics – I
- ☞ Physics – II
- ☞ Mathematics – I
- ☞ Mathematics – II
- ☞ Semi Conductor Devices
- ☞ Basics of Logic Gates
- ☞ Information Technology - I
- ☞ Environmental Studies - I

SEMESTER - II

- ☞ Physics – I
- ☞ Physics – II
- ☞ Mathematics – I
- ☞ Mathematics – II
- ☞ Semi Conductor Circuits
- ☞ Network Analysis and Synthesis
- ☞ Information Technology - II
- ☞ Environmental Studies - II

F.Y.B.Sc

Computer Science

- ☞ Physics – I
- ☞ Physics – II
- ☞ Mathematics – I
- ☞ Mathematics – II
- ☞ Introduction to Problem Solving
- ☞ Computer Architecture and Organization
- ☞ Resource Geography of Goa
- ☞ Environmental Studies - I

- ☞ Physics – I
- ☞ Physics – II
- ☞ Mathematics – I
- ☞ Mathematics – II
- ☞ Data Structures
- ☞ Operating Systems
- ☞ Economic Geography of Goa
- ☞ Environmental Studies - II

F.Y.B.sc.

Chemistry

- ☞ Physics – I
- ☞ Physics – II
- ☞ Mathematics – I
- ☞ Mathematics – II
- ☞ Physical Inorganic Chemistry - I
- ☞ Organic and Inorganic Chemistry - II
- ☞ Information Technology - I
- ☞ Environmental Studies - I

- ☞ Physics – I
- ☞ Physics – II
- ☞ Mathematics – I
- ☞ Mathematics – II
- ☞ Physical Inorganic Chemistry - I
- ☞ Organic and Inorganic Chemistry - II
- ☞ Information Technology - II
- ☞ Environmental Studies - II

S.Y.B.sc

Electronics

SEMESTER – III

- ☞ C++ Programming
- ☞ Digital Electronics
- ☞ Mathematics – V
- ☞ Mathematics – VI
- ☞ Physics – I
- ☞ Physics – II
- ☞ Foundation Course

SEMESTER – IV

- ☞ Linear Integrated Circuits
- ☞ Micro Processor and its Applications
- ☞ Mathematics – VII
- ☞ Mathematics – VIII
- ☞ Physics – I
- ☞ Physics – II
- ☞ Foundation Course

S.Y.Bsc

Computer Science

- ☞ Object Oriented Programming
- ☞ DBMS I
- ☞ Mathematics – V
- ☞ Mathematics – VI
- ☞ Physics – I
- ☞ Physics – II
- ☞ Foundation Course

- ☞ Client side Web Development
- ☞ DBMS II
- ☞ Mathematics – VII
- ☞ Mathematics – VIII
- ☞ Physics – I
- ☞ Physics – II
- ☞ Foundation Course

S.Y.Bsc

Chemistry

- ☞ Physics – I
- ☞ Physics – II
- ☞ Mathematics – V
- ☞ Mathematics – VI
- ☞ Physical & Inorganic Chemistry - III
- ☞ Organic & Inorganic Chemistry - IV
- ☞ Foundation Course

- ☞ Physics – I
- ☞ Physics – II
- ☞ Mathematics – VII
- ☞ Mathematics – VIII
- ☞ Physical & Inorganic Chemistry - III
- ☞ Organic & Inorganic Chemistry - IV
- ☞ Foundation Course

T.Y.Bsc Electronics

SEMESTER – V

- ☞ Microprocessor and its Application
- ☞ Analog Communication
- ☞ Object Oriented Programming
- ☞ Transducers and Instrumentation
- ☞ Practicals -I & II

SEMESTER – VI

- ☞ Microcontrollers: Theory and Applications
- ☞ Digital Communication & Computer Networks
- ☞ Operating Systems
- ☞ Pharmaceutical and Biomedical Instrumentation
- ☞ Practicals -I & II
Project (100 marks)

T.Y.Bsc

Computer Science

- ☞ Software Engineering – I
- ☞ Computer Networks – I
- ☞ Web Technology
- ☞ Microcontroller Architecture & Programming
- ☞ UML and Web Technology (Practical)
Microcontroller (Practical)

- ☞ Software Engineering – II
- ☞ Computer Networks – II
- ☞ Simulation and Modeling
- ☞ Modern Development Frameworks
- ☞ Case Tools and Modern Development Framework (Practical)
- ☞ Simulation and Network Programming
Project (100 marks)

T.Y.Bsc

Chemistry

- ☞ Physical Chemistry
- ☞ Inorganic Chemistry
- ☞ Organic Chemistry
- ☞ Pharmaceutical Chemistry

Lab Courses

- ☞ Experiments in Physical and Analytical Chemistry
- ☞ Experiments in Inorganic & Organic Chemistry

- ☞ Physical Chemistry
- ☞ Inorganic Chemistry
- ☞ Organic Chemistry
- ☞ Pharmaceutical Chemistry

Lab Courses

- ☞ Experiments in Physical and Analytical Chemistry
- ☞ Experiments in Inorganic & Organic Chemistry

PROJECT WORK: The student has to submit his/her project as a part of curriculum, consisting of 100 marks, under the guidance of his/her appointed guide, within the prescribed period fixed by the Goa University.