

B.Sc. (Computer Science –CS)

Courses structure:

The entire course is of three years. In which First year is yearly pattern and remaining two years have four semesters. First year has 8 theory papers and 5 practical. Each theory paper consists of 80 marks for University exam (External) and 20 marks for internal assessment. Each practical paper consists of 80 marks for University exam (Internal) and 20 marks for internal assessment. Practical papers have yearly pattern. For Computer Science Practical paper there will be 2 lab courses. Lab Courses –I is based on 'C' Programming and Lab Courses –II is based on operating systems in which Lab courses –II have grade.

Second year has 7 theory papers and 4 practical. Practical papers have yearly pattern. Each theory paper consists of 40 marks for University exam and 10 marks for internal assessment. Each practical paper consists of 80 marks for University exam and 20 for internal assessment.

Third year has 6 theory papers .each theory paper consists of 40 marks for University exam (External) and 10 marks for internal assessment for 3 rd and 4 the semester respectively. Every Lab Courses contain 80 marks External and 20 marks internal exam (Total 100 marks) which will be conducted at the end of academic year. In theory paper of each semester's students must get 16 marks out of 40 and 20 out of 50.

F.Y.b.Sc.(CS)

Eligibility Criteria:

- 1.H.S.C. (10+2) Level Examination in Science Passed or equivalent.
2. Three years Diploma Courses after S.S.C. (10th std.)of Board of Technical Education conducted by Government of Maharashtra or its equivalent.

Subject 1 (Computer Science)

- Paper I : Introduction to Programming & 'C' Programming
Paper II : File organisation and Fundamentals of databases
Paper III : Lab Courses I based on 'C' Programming
Paper IV : Lab Courses II based on Operating System, HTML ,shell Prog.& DBMS.

Subject 2 (Electronics)

- Paper I : Electronics Devices Circuits & Computer Peripherals
Paper II : Fundamental of Digital electronics
Paper III : Lab Course

Subject 3 (Mathematics)

- Paper I : Discrete Mathematics
Paper II : Algebra & Calculus
Paper III : Lab Course

Subject 4 (Statistics)

- Paper I : Statistics Method I
Paper II : Statistics Method II
Paper III : Lab Course

S.Y.B.Sc.(CS)

Rules for admission to S.Y.B.Sc.(CS)

1. Standard of passing of F.Y.B.Sc. (CS) is 40 % marks in each paper.
2. Each theory and practical examination is a separate head of passing.
3. As far as ATKT is concerned a student must clear minimum 5 theory and 3 practical head OR 4 theory and 4 practical head to get the admission to S.Y.B.Sc. (Computer Science.)

Semester I :

Subject 1 (Computer science)

Paper I : Data Structure using 'C'

Paper II : RDBMS

Subject 2 (Electronics)

Paper I : Microprocessor Architecture & Programming

Paper II : Communication Principles

Subject 3 (Mathematics)

Paper I : Linear Algebra

Paper II : Numerical Analysis

Subject 4 (English)

Semester II :

Subject 1 (computer Science)

Paper I : Object Oriented Concepts & Programming in C ++

Paper II : Software Engineering

Subject 2 (Electronics)

Paper I : Microcontroller & Embedded Systems

Paper II: Digital Signal & processing

Subject 3 (Mathematics)

Paper I : Computational Geometry

Paper II: Operational Research

Subject 4 (English)

Subject 5 (Environmental Awareness

Lab Courses

Computer Lab Courses I (Data structure using 'C',C++ assignment)

Computer Lab Course II (My SQL assignments ,Mini Project based on SE concept)

Electronics Lab Course (Yearly)

Mathematics Lab Course (Yearly)

T.Y.B.Sc. (CS)

Rules for admission to T.Y.B.Sc.(CS)

1. The Student has to clear all the papers of F.Y.B.Sc.
2. Standard of passing of S.Y.B.Sc. Course is minimum 40 % marks in each paper.
3. There are two semesters in S.Y.B.Sc.(Sem I & Sem II) each & practical examination is Separate head of passing.
4. Every theory paper contains 40 marks University exam and 10 marks internal exam for 1st and 2nd semester respectively.
5. As far as ATKT is concerned a student must clear minimum 8 subject including both semesters and 3 Practicals to get admission to T.Y.B.Sc.(CS)

Semester III

Paper I : System Programming & Operating System –I

Paper II : Theoretical Computer Science & Compiler Construction-II

Paper III : Computer Networks – I

Paper IV : Web Development & PHP Programming –I

Paper V : Programming In JAVA –I

Paper VI : Object Oriented Software Engineering

Semester IV

Paper I : System Programming & Operating System –II

Paper II : Theoretical Computer Science & Compiler Construction-II

Paper III : Computer Networks – II

Paper IV : Web Development & PHP Programming –II

Paper V : Programming In JAVA –II

Paper VI : Business Application

Computer Lab Courses I

(System Prog.& Operating System)

Computer Lab Courses II

(Programming in JAVA & PHP)

Computer Lab Courses III

(Project using JAVA or PHP)

Examination Pattern for B.Sc.

a) For theory Courses :

Class	Exam	Marks	Total Marks	Tentative month in which Exam. will be conducted
F.Y.B.Sc	Internal	10	20	Sep / Oct
	External	10		Feb
	(Annual)	80	80	March / April
S.Y.B.Sc 1 st term	Internal	10	50	Sep / Oct.
	Semester – I	40		Nov.
	2 nd term	Internal	10	50
	Semester – I	40		April
	Environmental Awareness	75		Feb./March
T.Y.B.Sc. 1 st Term	Internal	10	50	Sep / Oct
	Semester-I	40		Nov.
	2 nd Term	Internal	10	50
	Semester-II	40		April.

For S.Y.B.Sc. Class there is one paper named Environmental Awareness for 100 Marks. Out of which 25 marks are for projects and 75 marks are kept for theory paper. Theory examination of this course will be conducted in Feb. / March. Students must get at least 'C' grade (40%) in Environmental Awareness course otherwise his /her result for degree course will be reserved by the University of Pune.

b) For Practical Courses (For F.Y., S.Y.,T.Y.,)

Practical examination will be of 100 marks reserved for day to day practical work for which there will be continuous assessment throughout the year for each practical.

Practical examination for 80 marks work is conducted at the end of the year in the month of February or March.