

**University of Pune**  
**Revised Structure for the B. Sc. (Computer Science) Course**  
**(First Year to be implemented from Academic Year 2013-2014)**

**F. Y. B. Sc. (Computer Science)**

No	Paper	Title
1	Computer Science Paper I	Problem Solving Using Computers and 'C' Programming
2	Computer Science Paper II	File Organization and Fundamental of Databases
3	Computer Science Paper III	Basic 'C' Programming and Database Handling practicals
4	Mathematics Paper I	Mathematics Paper I
5	Mathematics Paper II	Mathematics Paper II
6	Mathematics Paper III	Practical Course in Mathematics
7	Electronics Paper I	Electronics Paper I
8	Electronics Paper II	Electronics Paper II
9	Electronics Paper III	Practical Course in Electronics
10	Statistics Paper I	Statistical Methods - I
11	Statistics Paper II	Statistical Methods - II
12	Statistics Paper III	Practical Course in Statistics
13	Computer Science Paper IV	HTML programming and Advanced 'C' Programming practicals

**S. Y. B. Sc. (Computer Science)**

No	Paper	Title: Semester I	Title: Semester II
1	Computer Science Paper I	Data Structures using 'C'	Object Oriented Concepts using C++
2	Computer Science Paper II	Relational Database Management System	Software Engineering
3	Computer Science Paper III	Data structures Practical and C++ Practical	
4	Mathematics Paper I	Mathematics Paper I- Sem I	Mathematics Paper I- Sem II
5	Mathematics Paper II	Mathematics Paper II-Sem I	Mathematics Paper II- Sem II
6	Mathematics Paper III	Practical Course in Mathematics	

7	Electronics Paper I	Electronics Paper I-Sem I	Electronics Paper I-Sem II
8	Electronics Paper II	Electronics Paper II-Sem I	Electronics Paper II-Sem II
9	Electronics Paper III	Practical Course in Electronics	
10	English	Technical English- Sem I	Technical English – Sem II
11	Computer Science Paper IV	Database Practicals & Mini Project using Software Engineering techniques	

### **T. Y. B. Sc. (Computer Science)**

No	Paper	Title: Semester I	Title: Semester II
1	Computer Science Paper I	System Programming	Operating System
2	Computer Science Paper II	Theoretical Computer Science	Compiler Construction
3	Computer Science Paper III	Computer Networks-I	Computer Networks-II
4	Computer Science Paper IV	Internet Programming- I	Internet Programming- II
5	Computer Science Paper V	Programming in Java-I	Programming in Java-II
6	Computer Science Paper VI	Object Oriented Software Engineering	Computer Graphics
7	Computer Science Paper VII	Practicals Based on CS-Paper I – Sem I & Sem II	
8	Computer Science Paper VIII	Practicals Based on CS-Paper V – Sem I & Sem II and Computer Graphics using Java	
9	Computer Science Paper IX	Practicals Based on CS-Paper IV – Sem I & Sem II and Project	