

Lab Course
C Programming (BC21501) and DBMS (BC21502)

Semester II

Subject Code: BCP21506

Lectures: 48

Objectives:

The syllabus aims in equipping students with

- The basic concepts of computer programming.
- Developing practical knowledge by writing programs using C
- Creations, manipulation of data in databases through queries.

Unit 1 C Programming

**24
Lects.**

• Assignment to demonstrate use of arrays (1-d arrays) and functions	4
• Assignment to demonstrate use of multidimensional array (2-d arrays) and functions.	4
• Assignment to demonstrate use of pointers.	4
• Assignment to demonstrate concept of strings.	4
• Assignment to demonstrate structures (using array) and Union	4
• Assignment to demonstrate command line arguments.	4
• Assignment to demonstrate file handling (text files)	4

Name	Sign
Prof. Gautam Kudale	<u>Gautam</u> <u>Kudale</u>
Prof. Mahesh Pawar	<u>Mahesh</u> <u>Pawar</u>
Mr. Suraj Agarwal	<u>Suraj</u> <u>Agarwal</u>
Ms. Netra Jadhav	<u>Netra</u> <u>Jadhav</u>
Mrs. Smita Borkar	<u>Smita</u> <u>Borkar</u>
Mrs. Divya Chitre	<u>Divya</u> <u>Chitre</u>
Mrs. Monika Rajguru	<u>Monika</u> <u>Rajguru</u>
Ms. Deepali Agarwal	<u>Deepali</u> <u>Agarwal</u>
Mrs. Shubhangi Jagtap	<u>Shubhangi</u> <u>Jagtap</u>

Unit 2: File Organization and Database Management System

24
Lects.

- Assignment to create/alter table and insert / update / delete records. 6
- Assignments on database constraints 2
- Assignments. (use simple / nested queries). 10
- Queries using aggregate functions. 6

Reference Books:

- Let us C* –Yashwant Kanetkar, BPB publication 10 th edition 2010.
- Programming in ANSI C* - Balguruswamy, Tata McGraw-Hill publication 3 rd edition 2004.
- Understanding Pointers in C* - Yashwant Kanetkar, BPB publication 2002.
- The Complete Reference C* – Herbert Schildt, Tata McGraw-Hill publication 3 rd edition 2008.
- Database Management Concepts* : Silberschatz, Korth, Sudarshan Tata McGraw-Hill publication fifth edition 2006.

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