

Procedure Oriented Programming using C.

Semester II

Subject Code: BC21501

Lectures: 48

Objectives:

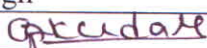





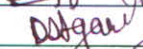


The syllabus aims in equipping students with

- The basic concepts of computer programming and developer tools.
- Syntax and semantics of the "C" language as well as data types offered by the language.
- An ability to write their own programs using standard language infrastructure regardless of the hardware or software platform.

Unit 1: Array

8
Lects.

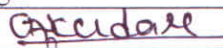




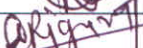
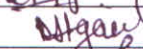


- Introduction to Array
- Types of Array (One-dimensional Array , two-dimensional Array)
Definition, Declaration, Initialization.
- Accessing and displaying array elements
- Arrays and functions

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



Unit 2: Introduction to Pointer	10 Lects.
<ul style="list-style-type: none"> • Introduction to pointer Definition, Declaration ,Initialization, • Indirection operator and address of operator • Pointer arithmetic • Dynamic memory allocation • Functions and pointers • Array and pointers 	<p>2</p> <p>1</p> <p>1</p> <p>3</p> <p>2</p> <p>1</p>

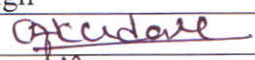

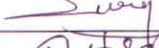






Unit 3: String	8 Lects.
<ul style="list-style-type: none"> • Introductions to Strings Definition, Declaration, Initialization. • String handling using standard library functions • String handling using user defined functions 	<p>1</p> <p>3</p> <p>4</p>

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



Unit 4: Structures and union	8 Lects.
<ul style="list-style-type: none"> • Introduction to structure Definition ,Declaration • Accessing members • Array of structures • Nested structure • Introduction to union Definition , Declaration • Differentiate between structure and union 	1 1 2 2 1 1

Unit 5: C Preprocessor	4 Lects.
<ul style="list-style-type: none"> • Definition of preprocessor • Types of preprocessor File Inclusion Macro 	1 3

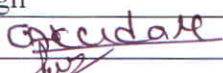

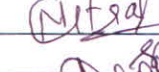

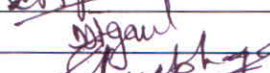



Name	Sign
Prof. Gautam Kudale	
Prof. Mahesh Pawar	
Mr.Suraj Agarwal	
Ms. Netra Jadhav	
Mrs.Smita Borkar	
Mrs.Divya Chitre	
Mrs.Monika Rajguru	
Ms.Deepali Agarwal	
Mrs. Shubhangi Jagtap	



Unit 6: File handling	10 Lects.
<ul style="list-style-type: none"> • Definitions of files • File opening modes • Standard functions with example • Random access to files • Command line argument with example 	1 1 3 2 3

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.

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