



Computer Laboratory based on (Data Structure and PHP, Big data)
Computer Laboratory based on (Data Structure and PHP, Big data)

[PRACTICAL]

Semester III	Credits: 6	Subject Code: BCP32106	Lectures: 48
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Course Outcomes:

At the end of this course ,the learner will be able to,

- Relate the concepts of ADTs .
- Analyze the concepts of linear data structures – lists, stacks, and queues .
- Apply sorting, searching and hashing algorithms .
- Analyze how server-side programming works on the web.
- Create and evaluate data in a MySQL database.
- Create programs using R machine.

Unit 1: Data Structure	16
<ul style="list-style-type: none">• Assignments on pointers and DMA• Assignments to demonstrate use of Polynomial• Assignments to demonstrate use of Linked List (Singly Linked List, Doubly Linked List)• Assignments on Sorting and Searching• Assignments to demonstrate use of stack• Assignments to demonstrate use of Queue	

Unit 2: PHP	16
<ul style="list-style-type: none">• Assignments on \$_GET and \$_POST• Assignments to understand the concept of array in PHP• Assignments to demonstrate the use of function in PHP• Assignments on String• Assignment on Cookies and Session• Assignment on database	


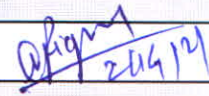
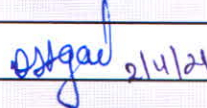
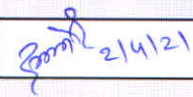
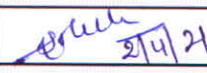

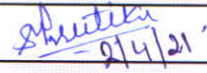
Unit 3: Big data	16
<ul style="list-style-type: none">• Assignments on vectors• Assignments to create data frames• Assignments to demonstrate the use of bar plot• Assignments on String• Assignment on lists• Assignment on levels of factor.	

Board Of Studies	Name	Signature
Head of the Department	Asst. Prof. Smita Borkar	



#12 hours for Library work, assignments practical or field work

Reference Books:
<ul style="list-style-type: none">Sahni, <i>Fundamentals of Data Structure in C</i>, Universities Press Pvt.Ltd,2008Sahni, <i>An Introduction to Data Structure and Algorithms</i>, James A Storer,2009Vikram Vaswani <i>Php: A Beginner's Guide</i> 1st Edition McGraw-Hill Osborne Media;Joel Murach and Ray Harris <i>PHP and MySQL</i> (2nd Edition)Steven Holzner ,<i>The Complete Reference Paperback</i> , Jul 2017

Board Of Studies	Name	Signature
Head of the Department	Prof. Smita Borkar	
Faculty*	Prof Monika Rajguru	
Faculty*	Prof. Deepali Gupta	
Subject Expert (Outside SPPU)	Dr. Sagar Jambhorkar	
Subject Expert (Outside SPPU)	Prof Sachin Bohite	
VC Nominee	Prof Anjum Patel	
Industry Expert	Ms Shrutika Wayal	
One Alumni***	Ms. Vidhi Thakkar	

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