Computer Laboratory based on
(Object Oriented Concepts Through CPP and Advance PHP)
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[PRACTICAL]

Semester IV	Credits: 4	Subject Code: BCP42106	Lectures: 48

Course Outcomes:
At the end of this course, the learner will be able to, • Create programs using C++ features like operator overloading, • Apply the concepts of constructor and destructor, inheritance, polymorphism and exception handling. • Relate the concepts of internet programming. • Create websites using PHP.

Unit 1: Object Oriented Concepts Through CPP	24

• Assignment to demonstrate
• Creation of Classes an objects
• Working with Strings
• OOP's concepts
   ▪ Inheritance (Types of Inheritance): Single, Multilevel, Multiple, Hyb
   ▪ Polymorphism (Compile Time and Run Time Polymorphism):
   ▪ Assignment on Operator overloading
   ▪ Assignment on Function overloading
   ▪ Assignment on Virtual function
• Managing I/O using Manipulators
• Working with Files: insert, update and delete	

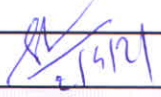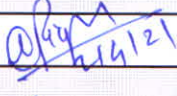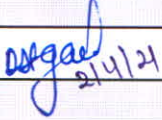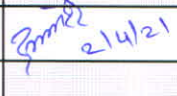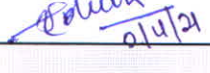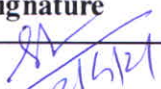| Unit 2: Advance PHP	24
• Assignments to demonstrate the concept of object, class, Introspection • Assignments to demonstrate the concept of self-processing pages and sticky form • Assignment to demonstrate the concept of XML document structure • Assignment to demonstrate on the concept of simple XML functions • Assignment to demonstrate the concept of AJAX	
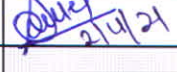
#12 hours for Library work, assignments practical or field work

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

Reference Books:

- Vikram Vaswani ,*PHP: A Beginner's Guide* 1st Edition McGraw-Hill Osborne Media; edition.
- Joel Murach and Ray Harris ,*Murach's PHP and MySQL* (2nd Edition),
- Steven Holzner ,*PHP: The Complete Reference Paperback* – 1 Jul 2017.

Board Of Studies	Name	Signature	
Head of the Department	Prof. Smita Borkar		2/5/21
Faculty*	Prof Monika Rajguru	2/4/21	
Faculty*	Prof. Deepali Gupta		2/4/21
Subject Expert (Outside SPPU)	Dr. Sagar Jambhorkar	2/4/21	
Subject Expert (Outside SPPU)	Prof Sachin Bohite		2/4/21
VC Nominee	Prof Anjum Patel	2/4/21	
Industry Expert	Ms Shrutika Wayal		2/4/21
One Alumni***	Ms. Vidhi Thakkar		

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