



**Advance PHP**  
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**[ELECTIVE COURSE]**

**Semester: IV**

**Credits: 3**

**Subject Code: BC42104**

**Lectures: 48**

**Course Outcomes:**

At the end of this course the learner will have the,

- Relate the concepts of internet programming.
- Describe how server-side programming works on the web.
- Discuss use PHP Framework (Joomla / Druple)

**Unit 1: Introduction to Object Oriented Programming in PHP**

**6**

- Classes
- Objects
- Introspection
- Serialization
- Inheritance
- Interfaces
- Encapsulation

**Unit 2: Web Techniques and Web services**

**12**

- Server information
- Processing forms
- Sticky forms
- Setting response header
- Definition of web services
- Basic operational model of web services, tools and technologies enabling web services
- Benefits and challenges of using web services.
- Web services Architecture and its characteristics
- Core building blocks of web services
- Standards and technologies available for implementing web services
- web services communication models
- Basic steps of implementing web services

**Unit 3: XML and Ajax with PHP**

**14**

- Introduction XML
  - XML document Structure
  - PHP and XML

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- XML parser
- The document object model
- The simple XML extension
- Changing a value with simple XML
- Introduction to AJAX
  - Understanding java scripts for AJAX
  - AJAX web application model
  - AJAX –PHP framework
  - Performing AJAX validation
  - Handling XML data using php and AJAX
  - Connecting database using php and AJAX

#### Unit4: PHP Framework and handling E-mail (Joomla / Druple)

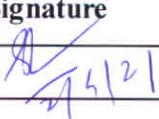
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- Introduction to Joomla/Druple
- Introduction
- Joomla/Druple features
- How joomla/Drupleworks ?
- The platformComponents, Modules and Plugins
- Administering Joomla/Druple
- Presentation Administration
- Content Administration
- System Administration
- Working with Joomla/Druple
- Adding articles
- Adding menus to point to content
- Installing new templates
- Creating templates
- Adding a Module and Component
- Modifying the existing templates
- Creating templates with web editors
- Activity
- Email Background
- Internet mail protocol
- SMTP,POP3,IMAP4, HTTP protocol
- Structure of an Email message
- Sending Email with PHP
- Email id validation and Verification

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

#### Recommended Text Books:

- Larry Ullman ,*PHP for the Web*, Person,2012.

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- Julie Meloni , *PHP6*, Cengage Learning, 2009
- Ed Lecky-Thompson ,*Professional PHP6*, Worx,2009
- Teodoru Gugoiu ,*HTML,XHTML,CSS and XML by example A Practical Guide* ;2009

#### Reference Books:

- Vikram Vaswani , *Php: A Beginner's Guide* 1st Edition McGraw-Hill Osborne Media; 1 edition .
- Joel Murach and Ray Harris, *Murach's PHP and MySQL* (2nd Edition).
- Steven Holzner, *PHP: The Complete Reference Paperback* – 1 Jul 2017.
- S. Graham and others , *Building Web Services with Java*, 2nd Edition, , Pearson Edn., 2008.
- D.A. Chappell & T. Jewell *Java Web Services*, , O'Reilly, SPD.

#### Websites:

- <https://www.tutorialspoint.com/>
- [www.w3school.com](http://www.w3school.com)

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Head of the Department	Prof. Smita Borkar		
Faculty*	Prof Monika Rajguru		
Faculty*	Prof. Deepali Gupta		
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VC Nominee	Prof Anjum Patel		
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