

Advanced Web Technologies

Semester VI	Subject Code: BC61701	Lectures: 60
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Objectives:

The syllabus aims in equipping students with,

- Developing PHP based application using database and framework
- Understanding the concepts of XML
- Understanding the concepts of JavaScript and AJAX

Unit 1: Web service architecture and its characteristics

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- Web Variables
- Server information
- Self Processing forms
- Setting response headers
- Maintaining state (Cookies and Sessions)

Unit 2: Databases & Frame work in PHP

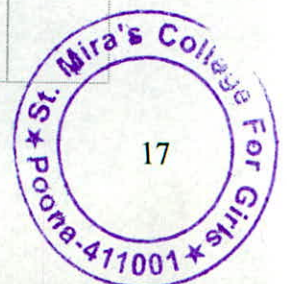
12

- Using PHP to access a databases
- Mysql Database functions
- Relational databases and SQL
- PEAR DB basics
- Advanced database techniques
- Sample application
- Introduction to PHP framework
- Features, Applications
- Example DRUPAL

Unit 3: Handling Email with PHP

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- Email Background
- Internet Mail Protocol
- Structure of an email message
- Sending email with PHP
- Email ID validation & verification
- PHP error handling



Unit 4: XML	08
<ul style="list-style-type: none">• What is XML?• Structure of XML document• PHP and XML• XML parser• The document object model• The simple XML extension• Changing a value with simple XML	

Unit 5: JAVA Script & AJAX	14
<ul style="list-style-type: none">• Introduction to Java Script• Identifier & operator, control structure, functions• Document object model(DOM),• DOM Objects(window, navigator, history, location)• Predefined functions, math & string functions• Array in Java scripts• Event handling in Java script• 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	

*Contact hours – 12 hours



Text Books:

- ✓ 1. *Advanced web technologies*, A.Nimbalkar and Mrs.Shalaka Sakhrekar, Nirali prakashan
- ✓ 2. *Advanced web technologies*, Rajinder Arora, Vision publications

Reference Books:

1. Rasmus Lerdorf and Kevin Tatroe, *Programming PHP*, O'Reilly publication
2. *Beginning PHP 5*, Wrox publication
3. *PHP web seviles*, Wrox publication
4. *Ajax Black Book*, KoGent Soluations Inc