Internet programming II

Semester VI   **Subject Code: BS61704**   **Lectures: 60**

Objectives:

The syllabus aims in equipping students with,
- Learn object oriented concepts
- Learn different technologies used at client Side Scripting Language
- Learn XML,CSS and XML parsers.
- To Design dynamic and interactive Web pages.
- Handling PDF documents
- Learn JavaScript to program the behavior of web pages.
- Learn AJAX to make our application more dynamic.

Unit 1: Object Oriented Programming	06

Introduction to Object Oriented Programming
- Classes
- Objects
- Introspection
- Serialization
- Inheritance
- Interfaces 4.7Encapsulation

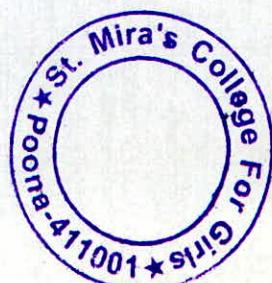| Unit 2: Web Techniques and Email handling in PHP	10

Web Techniques
- Variables
- Server information
- Processing forms
- Setting response headers
- Maintaining state
- IntrSSL

Handling email with php
- Email background
- Internet mail protocol
- Structure of an email message
- Sending email with php
- Email id validation and verification

Unit 3: XML   08

XML
- What is XML?,
- XML document Structure
- PHP and XML
- XML parser
- The document object model
- The simple XML extension
- Changing a value with simpleXML

Unit 4: PDF   05

PDF
- PDF extension
- Documents and pages
- Text
- Images

Unit 5: WEB DESIGNING TECHNOLOGIES   19

Web Designing Technologies (JavaScript-DHTML)
- Overview of JavaScript, DHTML
- Object Orientation and JavaScript
- Basic Syntax(JS datatypes, JS variables)
- Primitives, Operations and Expressions
- Screen Output and keyboard input(Verification and Validation)
- JS Control statements
- JS Functions
- JavaScript HTML DOM Events(Mouse event and Keyboard event).
- JS Strings.
- JS String methods
- JS popup boxes(alert, confirm, prompt).
- Changing property value of different tags using DHTML (ex. adding innerhtml for DIV tag, changing source of image etc.).

AJAX
- Introduction of AJAX
- AJAX web application model
- AJAX –PHP framework
- Performing AJAX validation
- Handling XML data using php and AJAX
- Connecting database using php and AJAX

23

*Contact hours – 12 hours

Recommended Text Book:

Reference Books:

References
- Programming PHP By Rasmus Lerdorf and Kevin Tatroe O'Reilly publication
- Beginning PHP 5, Wrox publication
- PHP web services , Wrox publication
- AJAX Black Book Kogent solution
- Mastering PHP BPB Publication
- PHP cookbook O'Reilly publication