Government Polytechnic,Meham

**Lesson Plan**

Name of the Faculty : Alka, Lecturer Discipline :Computer Engg.

Department : Computer Engg.

Semester : 5th

Subject : Web Technologies

Lesson Plan Duration : 15 weeks

Work load (Lecture / Practical) per week (in hours) : Lectures-03, Practicals -04

(Theory & Practical)

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| **Week** | **Theory** | | **Practical** | |
| **Lecture**  **day** | **Topic**  **(Including assignment / test)** | **Practical** | **Topic** |
| 1st | 1st | **UNIT 1. DEVELOPING PORTALS USING HTML :** | 1st | Design PHP based web pages using correct PHP, CSS, and XHTML syntax, structure. |
| Introduction to HTML 5 and CSS 3. Basic structure of  HTML, designing a web page |
| 2nd | Inserting links images, horizontal rules, comments. |
| 3rd | Formatting text, title, headings, colors, fonts, sizes,  simple tables and forms. |
| 2nd | 4th | Hyperlinks. Adding graphics and images, image maps,  image files. | 2nd | Create Web forms and pages that properly use HTTP GET and POST protocol as appropriate. |
| 5th | Using tables, forms, style sheets and frames. |
| 6th | Floating of web site/pages. |
| 3rd | 7th | **UNIT 2. PHP :** | 3rd | Design SQL language within MySQL and PHP to access and manipulate databases. |
| Introduction to PHP: How PHP Works , The php.ini File |
| 8th | Basic PHP Syntax, PHP variables, statements, operators,  decision making |
| 9th | Loops, arrays, strings |
| 4th | 10th | Forms, get and post methods, functions. | 4th | **Revision** |
| 11th | Introduction to cookies, storage of cookies at client side,  Using information of cookies |
| 12th | Creating single or multiple server side sessions.  Timeout in sessions |
| 5th | 13th | Event management in PHP. Introduction to content  management systems based on PHP. | 5th | **Viva Voce** |
| 14th | Revision of unit 1 andd 2 |
| 15th | **Assignment No. 1, Sessional Test - 1** |
| 6th | 16th | **UNIT 3. MySQL :** | 6th | Install and configure both PHP and MySQL. |
| Introduction to MySQL, connecting to MySQL |
| 17th | Database creation, insertion |
| 18th | Deletion and retrieval of MySQL data using PHP |
| 7th | 19th | **UNIT 4. JOOMLA BASICS AND ADMIN :** | 7th | Create PHP code that utilizes the commonly used API library functions built in to PHP. |
| Installing Wamp Server -Installing Joomla on Web ServerInstalling Wamp Server -Installing Joomla on Web  Server |
| 20th | Joomla global configuration -Article manager -Archive manager-FrontPage manager -Section manager |
| 21st | Category manager- Media Manager-Menu manager -  Component manager |
| 8th | 22nd | Content Manager-Extensions manager-Module manager-  Plugin manager-Template manager | 8th | Design and create a complete web site that demonstrates good PHP/MySQL client/server design. |
| 23rd | How to install a new module-How to install a new  template |
| 24th | How to install a new plugin-How to install a new  component |

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| **Week** | **Lecture**  **day** | **Topic**  **(Including assignment / test)** | **Practical** | **Topic** |
| 9th | 25th | Understanding the concept of Joomla positions | 9th | **Revision** |
| 26th | Changing the layout structure by changing the module  position. |
| 27th | Revision of unit3 andd 4 |
| 10th | 28th | **Assignment No. 2** | 10th | **Viva Voce** |
| 29th | **Sessional Test - 2** |
| 30th | **UNIT 5. JOOMLA FRONTEND :** |
| Understanding Basic Joomla Template |
| 11th | 31st | Customizing Joomla template | 11th | To store a cookie using PHP on client side. |
| 32nd | Building Custom Joomla Template |
| 33rd | Understanding Templatedetails.xml File |
| 12th | 34th | Creating Templatedetails.xml File using tmpl\_builder | 12th | To save the user session on server side. |
| 35th | Linking CSS-Linking JavaScript |
| 36th | Understanding Include-Displaying Content in Xhtml |
| 13th | 37th | Creating Template installation Package | 13th | Design website using Joomla. |
| 38th | Creating Custom Forms |
| 39th | Changing the Form Appearance using CSS. |
| 14th | 40th | Revision of unit 5 | 14th | **Revision** |
| 41st | **Assignment No. 3** |
| 42nd | **Sessional Test - 3** |
| 15th | 43rd | **Revision/ Seminar/ Expert lecture** | 15th | **Viva Voce** |
| 44th | **Revision/ Seminar/ Expert lecture** |
| 45th | **Revision/ Seminar/ Expert lecture** |