# 20CS22SC - WEB DEVELOPMENT

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| Course Category: | Program Core | Credits: | 2 |
| Course Type: | Skill Oriented | Lecture-Tutorial-Practical: | 1-0-2 |
| Prerequisite: | Basic knowledge of SQL, and JAVA programming fundamentals. | Sessional Evaluation:  Univ. Exam Evaluation:  Total Marks: | 40  60  100 |
| Objectives: | * To strengthen the ability to identify and apply the suitable object-oriented concept for the given real-world problems. * To develop skills to create the web applications. | | |

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| Course Outcomes | After the completion of this Course, the students will be able to learn and develop various Web based applications. |
| Course Content | **Session-I: HTML Basics:** HTML elements, Headings, Paragraphs, Links, Images.  **Session-II: HTML Basics:** HTML Table, Lists, Forms, Attributes, Global Attributes, Events.  **Session-III: CSS styles:** Syntax, Colors, Borders, Margins, Padding, Text, Fonts, Icons, Links, Lists, Tables, Display, Max-width, Position, Inline-block, Navigator bar, Dropdowns, Image gallery, Forms, Math functions, Rounded corners, Border images, Color keywords, Text effects.  **Session-IV: Java Scripts:** Syntax, Variables, Operators, Data types, Functions.  **Session-V: Java Scripts:** Objects, Events, Strings, Numbers, Array, HTML DOM.  **Session-VI: Java Scripts:** Dates, Math, Switch, Loops, Ajax (JS/JQuery)  **Session-VII: JQuery:** Syntax, Selectors, Events, Hide/Show, Fades, Slide animate chaining, Get, Set, Add, Remove, Get/Post.  **Session-VIII: Software Installation:** XAMPP software, Integrated Development Environment, Apache on Linux (Installation and Configuration).  **PHP Basics:** Discuss about PHP Syntax, Variable, Echo/Print, Data types.  **Session-IX: PHP Basics:** Strings, Numbers, Math, Operators, if-else, Switch, Loops, Functions, Arrays, PHP Forms handling, Validation, Form complete, File Open/Read, File Create/Write, File upload.  **Session-X: MySQL:** Select, Where, Oderby, Insert into, Update, Delete, Min and Max, Count, Avg, Sum, etc.., Operators.  **MySQL Database:** Create db, Drop db, Create table, Drop table, Alter, Constraints, Data types, Functions, Join (Inner, Outer, etc..).  **College Website Development: (Session XI, XII, & XIII)**  **Session-XI**  **Module1:** [User Management System (Registration & Login) With admin panel](https://phpgurukul.com/user-registration-login-and-user-management-system-with-admin-panel/)  **Module2:** [Student Record System](https://phpgurukul.com/student-record-system-php/)  **Session-XII**  **Module3:** [Hostel Management](https://phpgurukul.com/online-course-registration-free-download/) System  **Module4:** [COVID19 Testing Management System](https://phpgurukul.com/covid19-testing-management-system-using-php-and-mysql/)  **Session-XIII**  **Module5:** Transport [Management System](https://phpgurukul.com/bus-pass-management-system-using-php-and-mysql/)  **Module6:** [Counselling Management System](https://phpgurukul.com/online-dance-classes-registration-system-using-php-and-mysql/) |
| Text Books &  References  Books | **REFERENCE BOOKS:**   1. Internet & World Wide Web. How to Program. Fourth Edition, P. J. Deitel, H. M. Deitel. 2. Practical web design: learn the fundamentals of web design with HTML5, CSS3, Bootstrap, jQuery, and Vue.js, Hong, Philippe 3. Learning PHP: A Gentle Introduction to the Web's Most Popular Language, David Sklar |
| E-Resources | 1. <https://phpgurukul.com/php-projects-free-downloads/> 2. <https://www.php.net/> 3. <https://www.w3schools.com/> |
| Required Software | 1. Windows Users: XAMPP, Notepad++, and MS Visual Studio Code 2. Linux Users: Apache, MS Visual Studio Code |

**CO-PO Mapping:** 3-High Mapping, 2-Moderate Mapping, 1-Low Mapping, - -Not Mapping

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|  | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | **PO10** | **PO11** | **PO12** |
| **CO1** | 2 | 1 | 1 | 1 | - | - | 1 | 3 | - | - | - | 2 |
| **CO2** | - | - | 1 | 1 | - | - | 1 | - | 2 | 1 | 2 | 1 |