# 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: | 4060100 |
| 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 &ReferencesBooks | **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
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| E-Resources | 1. <https://phpgurukul.com/php-projects-free-downloads/>
2. <https://www.php.net/>
3. <https://www.w3schools.com/>
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| Required Software | 1. Windows Users: XAMPP, Notepad++, and MS Visual Studio Code
2. Linux Users: Apache, MS Visual Studio Code
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**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 |