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| **NAME OF DEPARTMENT:** | | | | | | | | | | | | | | | | | School of Computing | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Subject Name:** | | | | | | | | Scripting Languages | | | | | | | | | | | | | | | | | | | | | | | | | **Subject Code:** | | | | | | | | TBC 602 | | |
|  | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | |  | | |
| **Course Name:** | | | | | | | | Bachelor of Computer Applications (BCA) | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | |  | | |
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| **1** | **Contact Hours:** | | | | | | | | | | 45 | | | |  | | | | | | | | | | | | | | | | | | | **L** | | 3 | | | **T** | | 0 | **P** | 0 | |
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| **2** | **Examination Duration(Hrs):** | | | | | | | | | | | | | | | | | | | |  | **Theory** | | | | | 0 | 3 |  | **Practical** | | | | | 0 | | 0 | |  | | | | |
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| **3** | **Relative Weightage:** | | | | | | | | | | | |  | | | | **CWE:** | | | | | | | | 25 | | **MTE:** | | | 25 | | **ETE:** | | | | 50 | | | |  | | | |
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| **4** | **Credits:** | | | | | 0 | | | 3 | |  | | | | | | | | | | | | |  | | |  | | |  | |  | | | |  | | | |  | | | |
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| **5** | **Semester:** | | | | | |  | | | |  | | | \* | |  | | | |  | | |  | | | | | | | | | | | | | | | | | | | | |
|  |  | | | | **Autumn** | | | | | | | **Spring** | | | | | | | **Both** | | | | | | |  | | | | | | | | | | | | | | | | | |
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| **6** | **Pre-Requisite:** | | | | | | | | | | Programming proficiency in C, C++ or JAVA. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| **7** | **Subject Area:** | | | | | | | | | | Computer Science. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| **8** | **Objective:** | | | | | | | | | This course covers a broad range of techniques in today’s Internet and World Wide Web. After successful completion of this course, students are expected to be able to perform basic client and server-side programming. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| **9** | **Course Outcome:** | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | A student who successfully fulfills the course requirements will be able to: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | **a)** | | | Learn the fundamental concept of Internet and Master the fundamentals of website development using HTML. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | **b)** | | | Implement the concepts of designing websites, layouts and formatting using CSS, and data exchange concepts using XML. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | **c)** | | | Build dynamic websites by applying Javascript and DOM. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | **d)** | | | Master the fundamentals Dynamic website development using jquery. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | **e)** | | | Implement Server side scripting concept and database driven approach using PHP. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | **f)** | | | Build dynamic, database-driven web applications, such as use of a WAMP framework (Windows, Apache, MySQL, and PHP) and JavaScript, among others, to develop robust online programs. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| **10** | | **Details of the course:** | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Unit No.** | | | **CONTENT** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **CONTACT HOURS** | | | | | |
| **1** | | | Scripts and Programs, Origin of Scripting, Scripting Today, Characteristics of Scripting Languages, Uses for Scripting Languages, Web Scripting, and the universe of Scripting Languages. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **9** | | | | | |
| **2** | | | Introduction: Concept of WWW, Internet and WWW, HTTP Protocol: Request and Response, Web browser and Web servers,  HTML Basic - Structure of HTML documents, HTML Elements, Linking in HTML, Anchor Attributes, Image Maps, Meta Information, Layouts, Tables, Audio and Video Support with HTML. Interactive Layout with Frames, FORMS, Form Control. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **9** | | | | | |
| **3** | | | **CSS:** Introduction, Benefits of CSS, types of CSS, Selector and types, text formatting properties, Box Model concept, CSS Border, margin properties, Positioning, color properties, Classes in CSS, concept of Ids pseudo classes. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **9** | | | | | |
| **4** | | | Overview of Javascript, features, JavaScript identifiers, operators, control & Looping structure, Introduction of Array, Array with methods, User defined & Predefined functions, Errors and Exception | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **9** | | | | | |
| **5** | | | Introduction to PHP**,** A First PHP Web Page**,** Variables, Operators and Expressions**,** Control Statements**,** Functions**,** Arrays**,** String Handling in PHP, Using MS-Access/MySQL Databases in PHP Pages. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **9** | | | | | |
|  | | | **TOTAL** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **45** | | | | | |
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| **11** | | **Suggested Books:** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | |
| **Sl. NO.** | | **NAME OF AUTHORS/BOOKS/PUBLISHERS** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **YEAR OF PUBLICATION** | | | | | |
| **1** | | Ralph Moseley and M.T. Savaliya, DevelopingWebApplications”,,Wiley-India | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **2011** | | | | | |
| **2** | | “WebTechnologies”,BlackBook,dreamtechPress | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **2018** | | | | | |
| **3** | | “HTML5”, BlackBook,dreamtechPress | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **2016** | | | | | |
| **4** | | JoelSklar, “Principles of WebDesign”, CengageLearning | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **2015** | | | | | |