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| **2022-23**  **Onwards**  **(MR22)** | **MALLA REDDY ENGINEERING COLLEGE (AUTONOMOUS)** | **B.Tech. V Semester** | | |
| **Code: C0561** | **WEB PROGRAMMING**  **(Professional Elective *–* I)** | **L** | **T** | **P** |
| **Credits: 3** | **3** | **-** | **-** |

###### Course Objectives:

* + Understand the technologies used in Web Programming.
  + Know the importance of object-oriented aspects of Scripting.
  + Understand creating database connectivity using JDBC.
  + Learn the concepts of web-based application using sockets.

###### Course Outcomes:

* + Design web pages.
  + Use technologies of Web Programming.
  + Apply object-oriented aspects to Scripting.
  + Create databases with connectivity using JDBC.
  + Build web-based application using sockets.

###### MODULE *–* I Client side Programming

**HTML**- Basic Tags- List, Tables, Images, Forms, Frames, CSS **JAVA Script -**

Web page Designing using HTML, Scripting basics- Client side and server side scripting. Java Script Object, names, literals, operators and expressions- statements and features- events - windows - documents - frames - data types - built-in functions- Browser object model - Verifying forms.-HTML5- CSS3- HTML 5 canvas - Web site creation using tools.

##### MODULE *–* II JAVA

Introduction to object-oriented programming-Features of Java – Data types, variables and arrays – Operators – Control statements – Classes and Methods – Inheritance. Packages and Interfaces – Exception Handling – Multithreaded Programming – Input/Output – Files – Utility Classes – String Handling.

##### MODULE *–* III JDBC

JDBC Overview – JDBC implementation – Connection class – Statements - Catching Database Results, handling database Queries. Networking– InetAddress class – URL class- TCP sockets – UDP sockets, Java Beans –RMI.

##### MODULE *–* IV APPLETS

Java applets- Life cycle of an applet – Adding images to an applet – Adding sound to an applet. Passing parameters to an applet. Event Handling. Introducing AWT: Working with Windows Graphics and Text. Using AWT Controls, Layout Managers

and Menus. Servlet – life cycle of a servlet. The Servlet API, Handling HTTP Request and Response, using Cookies, Session Tracking. Introduction to JSP.

##### MODULE *–* V XML AND WEB SERVICES

Xml – Introduction-Form Navigation-XML Documents- XSL – XSLT- Web servicesUDDI-WSDL-Java web services – Web resources.

##### TEXT BOOKS:

1. Harvey Deitel, Abbey Deitel, Internet and World Wide Web: How To Program 5th Edition.
2. Herbert Schildt, Java - The Complete Reference, 7th Edition. Tata McGraw- Hill Edition.
3. Michael Morrison XML Unleashed Tech media SAMS.

##### REFERENCE BOOKS:

1. John Pollock, Javascript - A Beginners Guide, 3rd Edition –- Tata McGraw-Hill Edition.
2. Keyur Shah, Gateway to Java Programmer Sun Certification, Tata McGraw Hill, 2002.