# DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING (AI&ML)

ACADEMIC PRESENTATION ON

WEB PROGRAMMING III YEAR I SEM (R22)

# PRESENTED BY B. SAI KUMAR

**ASSISTANT PROFESSOR DEPT OF CSE (AI&ML)**

**ACADEMIC PLANNER**

## SUBJECT: WEB PROGRAMMING (III-B.TECH–I SEM-R22)

|  |  |
| --- | --- |
| **S.No** | **Content** |
| **1** | **Preamble/Introduction** |
| **2** | **Prerequisites** |
| **3** | **Objectives and Outcomes** |
| **4** | **Syllabus**   1. **JNTU/R22**-**CMREC Syllabus** 2. **GATE** |
| **5** | **List of Expert Details (Local/National/International with Contact**  **details/Profile link/Blogs/their research Contribution towards the subject)** |
| **6** | **Journals with min 5 ref paper** |
| **7** | **Subject -Lesson plan** |
| **8** | **Suggested Books (prescribed and References)** |
| **9** | **Websites for self learning Resources like *[www.geeksforgeeks.org,](http://www.geeksforgeeks.org/)***  ***[www.w3schools.com,](http://www.w3schools.com,) Coursera.edX, Udemy, Khan Academy, NPTEL etc along Registration Procedures.*** |
| **10** | **Question Banks**   1. **JNTUH/CMREC - Model papers** 2. **GATE** |
| **11** | **Two case study presentations with Project / Product/ Model**  **/Prototypes/ Industrial applications.** |
| **12** | **Assignment Questions/Innovative Assignments sets** |
| **13** | **List of topics for students’ Seminars with Guidelines** |
| **14** | **STEP/Course material in soft copy** |
| **15** | **Expert Lectures with topics & Schedules (if any)** |

**1. Introduction**

## What is Web Programming?

Web Programming refers to the writing, markup and coding involved in Web development, which includes Web content, Web client and server scripting and network security. The most common languages used for Web programming are XML, HTML, JavaScript, Perl 5 and PHP. Web programming is different from just programming, which requires interdisciplinary knowledge on the application area, client and server scripting, and database technology.

## What are Web Technologies?

Web technologies are the various tools and techniques that are utilized in the process of Communication between different types of devices over the internet. Let’s break it down into two pieces: ‘web’ and ‘technology’. The web, in this case, refers to the World Wide Web, more commonly known as [WWW.](http://www/) It first came into being in 1989 when famous scientist and engineer, Tim Berners-Lee, came up with an efficient mechanism to share resources between scientists all over the world.

## What are The Different types Of Web Technologies?

* The basics, which will cover web browsers and some web app development fundamentals.
* Programming languages and frameworks which are used in the development of websites.
* Databases that are used at the backend to store data required or collected by websites.
* Some protocols, that is, rules for communicating on the web Graphic, audio, visual and other multimedia elements.
* Some data formats that are usually used to transmit data over the internet other miscellaneous web technologies.

## PREREQUISITES:

1. HTML & CSS Fundamentals

* Structure of web pages using HTML
* Styling and layout using CSS

1. Basic Understanding of Internet & Browsers

* How websites work
* Client-server architecture and HTTP basics

1. Problem-Solving and Logical Thinking

* Ability to debug code and structure programs logically

1. Familiarity with Text Editors/IDEs

* Use of tools like VS Code, Replit, or Notepad++

## OBJECTIVES AND OUT COMES

**Course Objectives:** The student should be able to:

* 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: Upon Completion of the course, the students will be able to

.

* 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.

## (4.1) SYLLABUS

**R22 – CMREC (Autonomous)**

## UNIT-I

**SCRIPTING:** 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.

## UNIT – 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 – Multi threaded Programming – Input/ Output – Files – Utility Classes–String Handling.

## UNIT –III

**JDBC:** JDBC Overview – JDBC implementation – Connection class – Statements - Catching

Database Results, handling database Queries. Networking– Inet Address class – URL class- TCP

sockets – UDPsockets, Java Beans –RMI.

## UNIT - 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.

## UNIT – V

**XML AND WEB SERVICES:** Xml – Introduction-Form Navigation-XML Documents- XSL – XSLT- Webservices-UDDI-WSDL-Java web services – Web resources.

## (4.2) SYLLABUS - GATE

Not Applicable.

.

## (4.3) SYLLABUS - IES

Not applicable

## EXPERT DETAILS

**The Expert Details which have been mentioned below are only a few of the eminent ones known Internationally, Nationally and Locally. There are a few others known as**

## INTERNATIONAL:

**1.CHRIS BATES**

He is working for Director Information Technology Services @ SNAI S.p.A IT Services Manager @ SNAI S.p.A

**Skills are:** IT Service Management, Gaming Industry and Solaris

**Email:** Address listings: [chrisbates18@hotmail.co](mailto:chrisbates18@hotmail.com)m or [chris.bates@snaitech.i](mailto:chris.bates@snaitech.it)t **[https://www.shu.ac.uk/about-us/our-people/staff-profiles/chris-bates#firstSection](https://www.shu.ac.uk/about-us/our-people/staff-profiles/chris-bates" \l "firstSection)**

**NATIONAL:**

1. [Kasani Srinivas](https://vrijraj.xyz/) (Android Developer at **Telangana Commissionerate Office)**

**Email:** srinivaskasani6@gmail.com

1. Kalyan Kumar (PHP Developer)

**Email:** kalyankumar.php@gmail.com

# REGIONAL

1. G.Venkata Rami Reddy, Associate professor, School of Information Technology, JNTU Hyderabad

**Email:** [gvr\_reddi@yahoo.co.in](mailto:gvr_reddi@yahoo.co.in)

# Authors Profile link :

**<http://sit.jntuh.ac.in/faculty/details/602>**

1. **JOURNALS**

## “An effective detection approach for phishing websites using URL and HTML features”

[file:///C:/Users/CSCJAVA/Downloads/AnefectivedetectionapproachforphishingwebsitesusingURLandHTM](file://localhost/C:/Users/CSCJAVA/Downloads/AnefectivedetectionapproachforphishingwebsitesusingURLandHTMLfeatures.pdf) [Lfeatures.pdf](file://localhost/C:/Users/CSCJAVA/Downloads/AnefectivedetectionapproachforphishingwebsitesusingURLandHTMLfeatures.pdf)

## “Phishing websites detection using a novel multipurpose dataset and web technologies features”

[https://reader.elsevier.com/reader/sd/pii/S0957417422012301?token=7F056CC9AE8FD1E9BFDF1A31D5F](https://reader.elsevier.com/reader/sd/pii/S0957417422012301?token=7F056CC9AE8FD1E9BFDF1A31D5F70CD89A3F9CA22E33F3D62512D750F0E2E6D93104E5F604FB532E3841955A0F46071E&originRegion=eu-west-1&originCreation=20230519085635) [70CD89A3F9CA22E33F3D62512D750F0E2E6D93104E5F604FB532E3841955A0F46071E&originRegion](https://reader.elsevier.com/reader/sd/pii/S0957417422012301?token=7F056CC9AE8FD1E9BFDF1A31D5F70CD89A3F9CA22E33F3D62512D750F0E2E6D93104E5F604FB532E3841955A0F46071E&originRegion=eu-west-1&originCreation=20230519085635)

[=eu-west-1&originCreation=20230519085635](https://reader.elsevier.com/reader/sd/pii/S0957417422012301?token=7F056CC9AE8FD1E9BFDF1A31D5F70CD89A3F9CA22E33F3D62512D750F0E2E6D93104E5F604FB532E3841955A0F46071E&originRegion=eu-west-1&originCreation=20230519085635)

**3. “An intelligent expert system for academic advising utilizing fuzzy logic and semantic web technologies for smart cities education ”**

<https://link.springer.com/article/10.1007/s40692-022-00232-0>

## 4. “A Contemporary Review on Utilizing Semantic Web Technologies in Healthcare, Virtual Communities, and Ontology-Based Information Processing Systems”

<https://www.mdpi.com/2079-9292/11/3/453>

## SUBJECT (LESSON) PLAN

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **S.NO** | | **Topic (CMREC**  **syllabus)** | | | **Sub-Topic** | **NO. OF LECTURES REQUIRED** | | **Suggested Books** | | **Method Of Teaching** | | | | |
| **UNIT – I** | | | | | | | | | | | | | | |
| 1 | | **Scripting** | | | Web page Designing using HTML | **L1** | | T1,T2,R1,R2 | | **M1** | | | | |
| 2 | | Scripting basics – Client side and server-side scripting | **L2** | | T1,T2,R1,R2 | | **M1** | | | | |
| 3 | | Java Script-Object, names, literals, operators and expressions | **L3,L4** | | T1,T2,R1,R2 | | **M1** | | | | |
| 4 | | Statements and features | **L5** | | T1,T2,R1,R2 | | **M1** | | | | |
| 5 | | Windows-Documents | **L5** | | T1,T2,R1,R2 | | **M1** | | | | |
| 6 | | Frames-Data types | **L6** | | T1,T2,R1,R2 | | **M1** | | | | |
| 7 | | Browser object model | **L7** | | T1,T2,R1,R2 | | **M1** | | | | |
| 8 | | Verifying forms | **L8** | | T1,T2,R1,R2 | | **M1** | | | | |
| 9 | | HTML5-CSS3 | **L8** | | T1,T2,R1,R2 | | **M1** | | | | |
| 10 | |  | | | HTML5 Canvas | **L9** | | T1,T2,R1,R2 | | **M1** | | | | |
| 11 |  | | | Website creation using tools | | | **L9** | | T1,T2,R1,R2 | | **M1** | | | | |
| 12 |  | | | Web Resources | | | **L10** | | T1,T2,R1,R2 | | **M1** | | | | |
| **UNIT – II** | | | | | | | | | | | | | | | |
| 13 | **JAVA** | | |  | | | **L11** | | T1,T2,R1,R2 | | | | **M1** | | |
| Introduction to object-oriented programming | | |
|  | | |
| 14 |  | | | **L12** | | T1,T2,R1,R2 | | | | **M1** | | |
| Features of JAVA | | |
|  | | |
| 15 | Data types, variables and arrays | | | **L13** | | T1,T2,R1,R2 | | | | **M1** | | |
| 16 | Operators | | | **L14** | | T1,T2,R1,R2 | | | | **M1&M4** | | |
| 17 | Control statements | | | **L15** | | T1,T2,R1,R2 | | | | **M1&M4** | | |
| 18 | Classes and methods - Inheritance | | | **L16** | | T1,T2,R1,R2 | | | | **M1&M4** | | |
| 19 | Packages and Interfaces- Exception Handling | | | **L16** | | T1,T2,R1,R2 | | | | **M1&M4** | | |
| 20 | Multithreaded Programming – Input/Output – Files - Utility Classes-String Handling | | |  | |  | | | |  | | |
|  |  | | |  | |  | | | |  | | |
| **UNIT – III** | | | | | | | | | | | | | | | |
| 21 | **JDBC** | | | JDBC Overview | | | **L17** | | T1,T2,R1,R2 | | | | **M1&M4** | | |
| 22 | JDBC Implementation | | | **L18** | | T1,T2,R1,R2 | | | | **M1&M4** | | |
| 23 | Connection class - statements | | | **L19** | | T1,T2,R1,R2 | | | | **M1&M4** | | |
| 24 | |  | Catching Database Results | | | **L20** | | T1,T2,R1,R2 | | | | **M1&M4** | |
| 25 | | Handling database queries | | | **L21** | | T1,T2,R1,R2 | | | | **M1&M4** | |
| 26 | | Networking | | | **L22** | | T1,T2,R1,R2 | | | | **M1&M4** | |
| 27 | | Address Class | | | **L23** | | T1,T2,R1,R2 | | | | **M1&M4** | |
| 28 | | URL Class | | | **L24** | | T1,T2,R1,R2 | | | | **M1&M4** | |
| 29 | | TCP Sockets | | | **L25** | | T1,T2,R1,R2 | | | | **M1&M4** | |
| 30 | | UDP Sockets | | | **L25** | | T1,T2,R1,R2 | | | | **M1&M4** | |
| 31 | | Java Beans | | | **L26** | | T1,T2,R1,R2 | | | | **M1&M4** | |
| 32 | |  | RML | | | **L27** | | T1,T2,R1,R2 | | | | **M1&M4** | |
| 33 | |  | Statements | | | **L28** | | T1,T2,R1,R2 | | | | **M1&M4** | |
| 29 | |  | Handling database queries | | | **L29** | | T1,T2,R1,R2 | | | | **M1&M4** | |
| 30 | |  | Catching Database Results | | | **L30** | | T1,T2,R1,R2 | | | | **M1&M4** | |
| **UNIT – IV** | | | | | | | | | | | | | |
| 31 | |  | Java applets- Life cycle of an applet- Adding images to an applet- Adding sound to an applet – Passing parameters to ana applet | | | **L28** | | T1,T2,R1,R2 | | | | **M1&M4** | |
| 32 | | Event Handling | | | **L29** | | T1,T2,R1,R2, | | | | **M1&M4** | |
| **APPLETS** |
| 33 | | Introducing AWT: Working with Windows Graphics and Text. Using AWT controls. | | | **L30** | | T1,T2,R1,R2, | | | | **M1&M4** | |
| 34 | | Layout Managers and Menus. Servelet- life cycle of a servlet. | | | **L31** | | T1,T2,R1,R2, | | | | **M1&M4** | |
| 35 | | The Servlet API, Handling HTTP Request and Response, using Cookies | | | **L32** | | T1,T2,R1,R2, | | | | **M1&M4** | |
| 36 | | Session tracking, Introduction to JSP | | | **L33** | | T1,T2,R1,R2, | | | | **M1&M4** | |
| **UNIT – V** | | | | | | | | | | | | | |
| 37 | | **XML AND WEB SERVICES** | XML-Inttroduction | | | **L38** | | T1,T2,R1,R2 | | | | **M1&M4** | |
| 38 | | Form Navigation | | | **L39** | | T1,T2,R1,R2 | | | | **M1&M4** | |
| 39 | | XML Documents | | | **L40** | | T1,T2,R1,R2 | | | | **M1&M4** | |
| 40 | | XSL – XSLT – Web services | | | **L41** | | T1,T2,R1,R2 | | | | **M1&M4** | |
| 41 | | UDDI-WSDL | | | **L42** | | T1,T2,R1,R2 | | | | **M1&M4** | |
| 42 | | Java web services | | | **L43** | | T1,T2,R1,R2 | | | | **M1&M4** | |
| 43 | | Web resources | | | **L44** | | T1,T2,R1,R2 | | | | **M1&M4** | |
| 44 | | XML Documents | | | **L45** | | T1,T2,R1,R2 | | | | **M1&M4** | |
| 45 | | Form Navigation | | | **L50** | | T1,T2,R1,R2 | | | | **M1&M4** | |
|  | | **TOTAL** | | | **50 HOURS** | |  | | | |  | |

|  |
| --- |
| **M1: Lecture Method** |
| **M2: Demo Method** |
| **M3: Guest Lecture** |
| **M4: Presentation/PPT** |

8) **SUGGESTED BOOKS**

**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, Java script - A Beginners Guide, 3rd Edition –- Tata McGraw-Hill Edition.

2. Keyur Shah, Gateway to Java Programmer Sun Certification, Tata McGraw Hill, 2002.

## WEBSITES:

**Do not confine yourself to the list of websites mentioned here alone. Be cognizant and keep yourself abreast of the others too. The given list is not exhaustive.**

* 1. **<https://www.tutorialspoint.com/php/index.htm>**
  2. **<https://www.phptpoint.com/php-tutorial>**
  3. **<https://www.javatpoint.com/jsp-tutorial>**
  4. **<https://www.w3schools.com/xml/>**
  5. **<https://www.w3resource.com/xml/xml.php>**
  6. **<https://www.tutorialspoint.com/servlets/index.htm>**

## QUESTION BANK:

## WEB PROGRAMMING

**UNIT WISE QUESTION BANK SHORT & LONG QUESTIONS**

**UNIT-I**

## SHORT QUESTIONS [1M]

* 1. Design a PHP program to print reverse of any number
  2. Define PHP Function.
  3. List various String Functions in PHP
  4. List various types of arrays supported by PHP. How to declare arrays in PHP.
  5. What is the use of $ symbol in PHP, explain with an example.
  6. Design a PHP code to swap any two numbers
  7. List any two advantages of PHP.
  8. Write the structure of PHP script with an example.
  9. What are the data types supported by PHP.
  10. What is the difference between JavaScript and PHP?

## LONG QUESTIONS [10M]

1. Define an Array? Explain about the types of Arrays in PHP with an example.
2. Explain variables and operators with example in PHP
3. Explain the predefined and user defined functions in PHP with an example.
4. Explain database connectivity in PHP with reference to MYSQL.

5 a) Define Session and Cookies. Explain with an example program.

b) List and explain the Control structures used in PHP.

6. How to read data from web form control like Check boxes explain with an example.

7a) Design a PHP script for uploading a file to the server and display the uploaded files details.

b) List and explain the string functions in PHP

1. What are the differences between Get and post methods in form submitting? Give the case where we can use get and we can use post methods
2. List the statements that are used to connect PHP with MySQL with an example.
3. a) How to read data from web form control like Text boxes explain with an example
4. Explain about Conditional Statements in PHP.

## UNIT-II

## SHORT QUESTIONS : [1M]

* 1. Define XML
  2. Explain about the purpose of DTD.
  3. Why are attributes used in XML?
  4. Define DTD.
  5. Define naming rules in XML.
  6. Define XML Schema.
  7. Distinguish between DTD and XSD.
  8. Define SAX Parser.
  9. Distinguish HTML and XHTML
  10. What are the advantages of XML?

## LONG QUESTIONS: [10M]

1. a) Explain the structure of the HTML webpage with an example.

b) Define List Tag with an example.

1. Define Frameset, Frame Tag. Divide the web page into four equal parts each individual part displays different web page.
2. Define Form tag. Design a Registration page by using all Form controls.
3. Define Table tag and their attributes with an example.
4. Explain about Cascading Style Sheets with an example.
5. Explain various operators and data types available in java script with examples.

7.a) What is the need of scripting languages in web Technologies.

b) Build a JavaScript program to convert temperature from Celsius to Fahrenheit and vice versa.

8 a) Explain Document Object Model with suitable examples and code.

b) Define Simple AJAX Application.

1. a) What is JavaScript? What are the features of JavaScript?

b) Design A JavaScript to display whether given number is prime or not.

1. Explain about Function definition, Function calling, Function parameter, return type with a suitable example in JavaScript
2. a) List the advantages of XML Schemas over DTD s.

b) Explain about Internal DTD’s with an example.

## UNIT-III

**SHORT QUESTIONS [1M]**

1. How is Servlet different from an Applet?
2. Explain about Servlet API.
3. How to create a cookie using servlet
4. What is servlet?
5. What are the Difference between Generic Servlet and HTTPServlet?
6. Discuss about Http Request
7. What is Session?
8. Discuss about Http Responses
9. What are the different types of session tracking mechanism supported by Servlets?
10. Explain about Common gateway interface.

## LONG QUESTIONS [10M]

1. Justify the Common Gateway Interface (CGI) with neat Diagram
2. What is Servlet? Explain about Servlet API
3. a) What are the advantages of Servlets over CGI.

b) Explain Life Cycle of a Servlet.

1. Explain about Lifecycle of a Servlet with neat diagram
2. Distinguish between CGI and Servlets
3. Develop a Servlet that handles an HTTP POST request.
4. What is JDBC. What are the various drivers of JDBC.
5. a) Distinguish between Get request and Post request type in Servlets.

b) Discuss about Session tracking in Servlets with a suitable example.

1. What is JDBC? How to connecting to a database using JDBC
2. Demonstrate the use of Cookies in Servlets with an example.

## UNIT-IV

**SHORT QUESTIONS [1M]:**

* 1. Define JSP expression.
  2. What are the directives in JSP with syntax?
  3. What is the syntax of JSP?
  4. Explain about Script let Tag.
  5. What are implicit objects in JSP?
  6. Explain about the methods of getProperty () and setProperty ()
  7. What is JSP?
  8. What are the Beans in JSP page?
  9. What are the difference between JSP and HTML?
  10. How are Cookies used for Session tracking in JSP?

## LONG QUESTIONS [10M]:

1. Justify the differences between servlets and jsp.
2. Explain about the JSP processing.
3. Explain about the different methods used for Session tracking
4. Explain the components of JSP.
5. Discuss about the code snippets in detail.
6. Explain about the anatomy of JSP.
7. Explain about the getProperty () and setProperty () of beans in JSP.
8. Explain about the JSP directive Elements. Explain each of them in detail.
9. How does JDBC allows to access database through java
10. Explain about the JDBC Drivers.ist some of the problems that might be associated with the creation of an independent test group
11. The software analysis and design are constructive tasks and software testing is considered to be destructive from the point of view of developer. Discuss.

## UNIT-V

**SHORT QUESTIONS [1M]:**

1. What is JavaScript?
2. Write the advantages of JavaScript
3. What is the difference between GET and POST methods in JavaScript?
4. What is the scope of the variables in JavaScript?
5. Define Event. How events are handled in JavaScript.
6. What is DATE object in JavaScript?

## LONG QUESTIONS [10M]:

1. How to create a data object using Java Script?
2. Discuss the Document Object Model in Java Script in detail?
3. Explain about, Event handlers in JavaScript .

5. Explain Document Object Model in JavaScript with suitable example and code

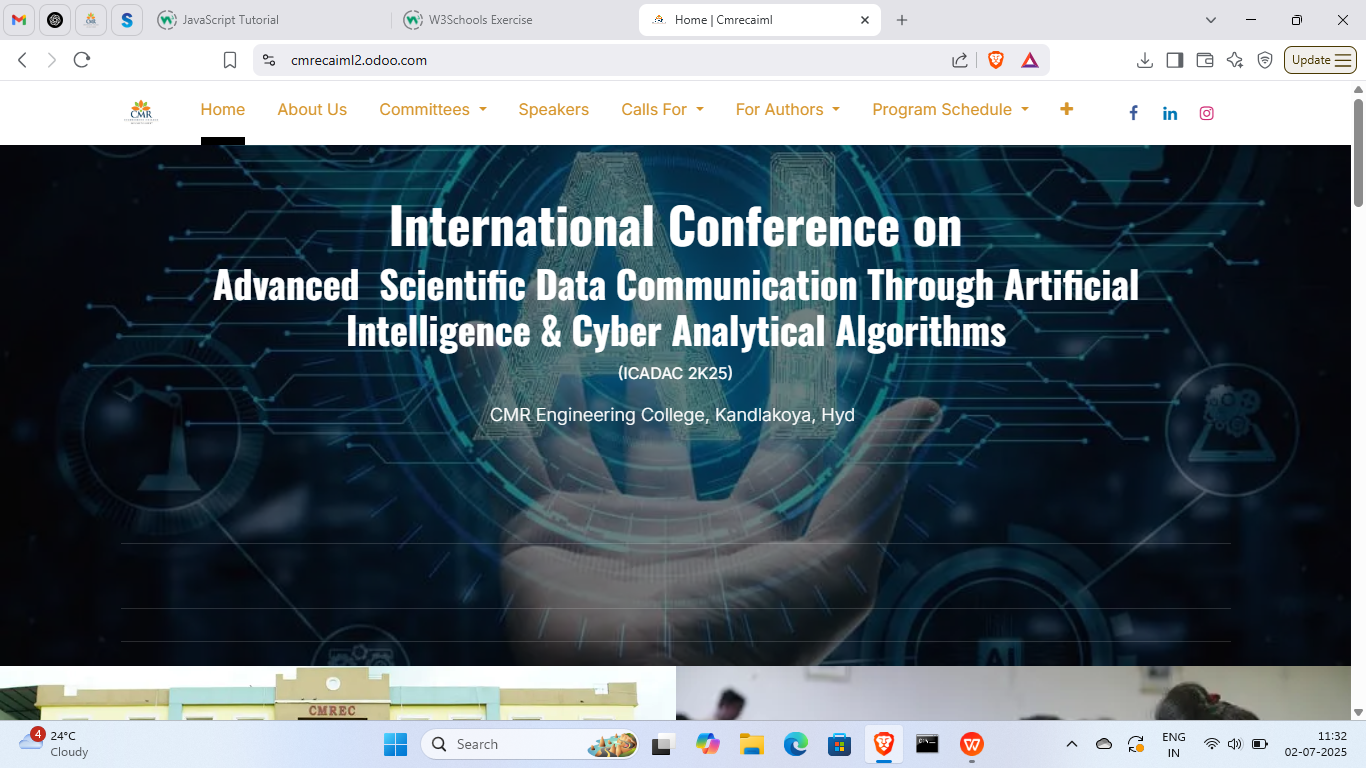
## INNOVATIVE QUESTIONS

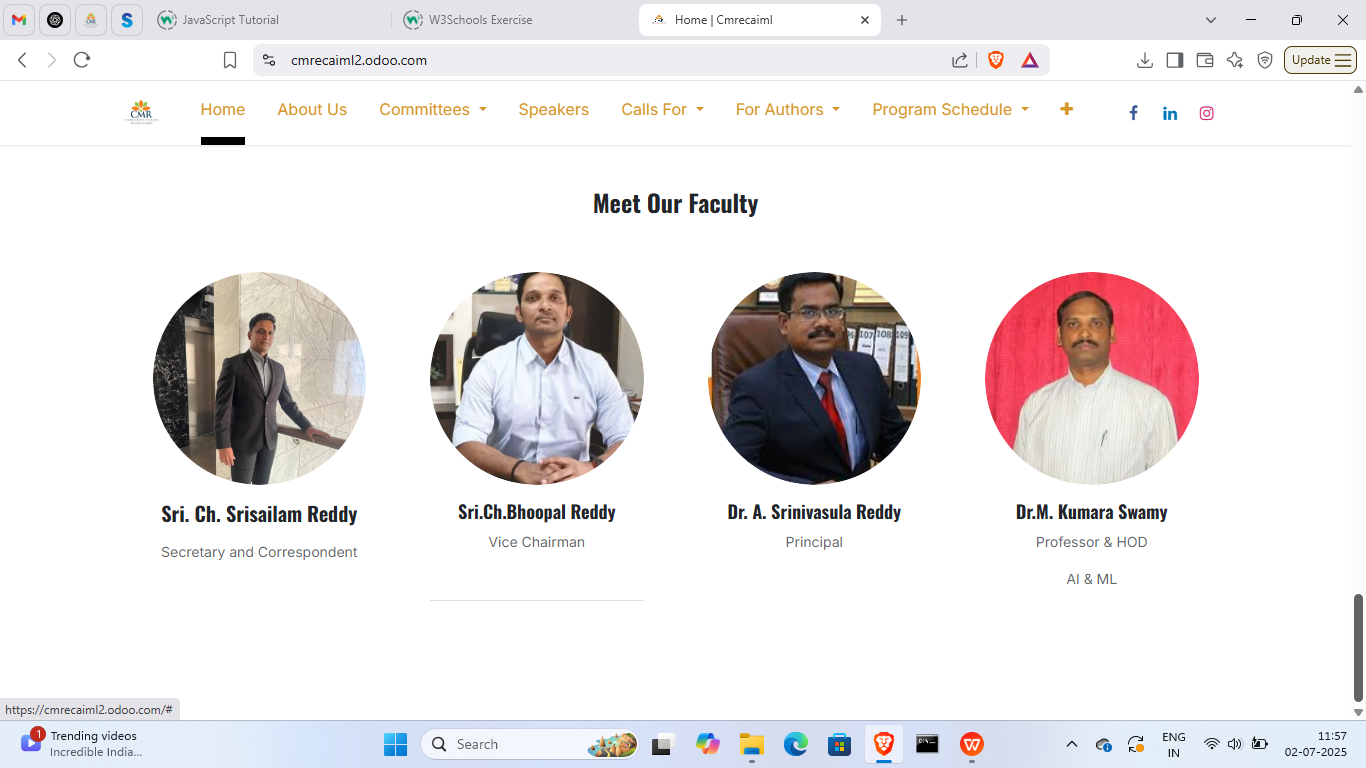
1. What is the future of web development?
2. How to check website development technology?
3. What is web 3.0 technology?
4. What is the single most important factor in choosing your web development technology stack?

## Case Studies CASE STUDY 1:

**WEBSITE DESIGNING USING OPEN SOURCE SOFTWARE**

**Website designing using Odoo open-source software** enables students to build professional, responsive websites with ease. Odoo offers a drag-and-drop editor, customizable templates, and seamless integration with e-commerce, CRM, and marketing tools. Its modular, user-friendly interface makes it ideal for businesses seeking an all-in-one open-source web development solution.





## ASSIGNMENT QUESTIONS/ INNOVATIVE ASSIGNMENTS SETS.

**12.1 Assignment Questions**

## MID-1

1. Define an Array? Explain about the types of Arrays in PHP with an example.
2. Explain about Lifecycle of a Servlet with neat diagram
3. a) Distinguish between CGI and Servlets

b) Develop a Servlet that handles an HTTP POST request. 4 design a PHP program to print reverse of any number

5. Define PHP Function.

6 List various types of arrays supported by PHP. How to declare arrays in PHP

## Assignment-I

**Answer all 5 questions:**

1. What is PHP? Explain about “Arrays” in PHP with an example?
2. a) Explain the File Handling methods with examples in PHP?

b) Define Sessions and Cookies. Explain with an example program.

1. Categories various types of DTD with an example?
2. a) Discuss about XML Schema with an example?

b) Discuss about various types of XML parsers?

1. a) What is Servlet? Explain life cycle of a Servlet?

b) Write a short note on Common Gateway Interface (CGI).

## MID-II

1. a) Write a Servlet program to read the name and values of parameters of client request. **[**

b) List out the differences between Generic Servlet and Httpservlet

1. Explain about, Event handlers in JavaScript
2. Explain Document Object Model in JavaScript with suitable example and code**.[**
3. Justify the Common Gateway Interface (CGI) with neat Diagram
4. What is JDBC? How to connecting to a database using JDBC

## Assignment-II

**Answer all 5 questions:**

1. A) Write a Servlet program to read the name and values of parameters of client request.

B) List out the differences between Generic Servlet and Httpservlet

1. Draw and explain JSP page translation and processing phases.
2. What are implicit objects available to JSP page? Explain with example
3. A) Write short notes on simple AJAX application.

B) Explain about, Event handlers in JavaScript**.**

1. Explain Document Object Model in JavaScript with suitable example and code**.**

## LIST OF TOPICS FOR STUDENT’S SEMINARS WITH GUIDELINES

* Introduction to PHP
* Handling file uploads
* Html common tags
* Java servlets
* Introduction to JSP

## STEP/Course material in soft copy:



R22-WP-Nov-2024.rar R22-WP-Marh-2024.rar



WP qp. rar CMREC\_WP\_LECTURE\_NOTES.zip

## EXPERT LECTURES WITH TOPICS

* 1. A Guest Lecture on “**Android App Development”** by September 2025.
  2. A Guest Lecture on “**Maintenance Project of an UK based hotel ”** by October 2025.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*