

CBSE | DEPARTMENT OF SKILL EDUCATION

CURRICULUM FOR SESSION 2021-2022

WEB APPLICATION (SUBJECT CODE-803)

JOB ROLE: WEB DEVELOPER

CLASS – XII

COURSE OVERVIEW:

Today the world is connected through the web socially and economically. Web development has become the best-paid career choice in the modern world. A web developer is a person/an individual/ personal who is proficient in creating web sites. Web development is the process of developing websites. The process includes coding or programming that empowers websites functionality.

OBJECTIVES OF THE COURSE:

In this course, the students will be familiarized with the web programming language & photo editing tool. Learners will be prepared to get the job in the different fields of website designing, website development and graphics designing.

The following are the main objectives of the course:

- To acquaint the students with the basis of networking.
- To develop the understanding of the web Architecture.
- To enable the students to enhance their knowledge of client-server Architecture.
- To prepare the students to develop static and dynamic websites.
- To familiarize the students with the web programming languages and photo editing software.
- To make the students capable of publishing a website independently.
- To develop the skills which will help the students to do the following:
 - Graphics Designing
 - Website Designing
 - Website Development
 - Web Applications

SALIENT FEATURES OF THE COURSE:

Web development is an emerging industry worldwide. It is developing at a very fast pace. Web application is a short term job oriented course. This course will enable the learners to understand the web development process and technique.

The importance of the course:

- It helps the organization to develop their own website.
- It generates job opportunities in the field of internet and web development.
- Useful for promoting business and products.
- It connects the individual or an organization on a web server.
- It is used in all kinds of sectors i.e. education, Industry, ecommerce, Banking, Marketing, to enhance the functionalities of the organizations.

SCHEME OF UNITS

This course is a planned sequence of instructions consisting of units meant for developing employability and vocational competencies of students of Class XI opting for skill subject along with other education subjects.

The unit-wise distribution of hours and marks is given overleaf:

WEB APPLICATION (SUBJECT CODE-803)**CLASS – XII (SESSION 2021-2022)****Total Marks: 100 (Theory-60 + Practical-40)**

	TERM	UNITS	NO. OF HOURS for Theory and Practical		MAX. MARKS for Theory and Practical
	Employability Skills				
PART A	Term I	Unit 1 : Communication Skills-IV	10		5
		Unit 2 : Self-Management Skills-IV	10		
		Unit 3 : ICT Skills-IV	10		
	Term II	Unit 4 : Entrepreneurial Skills-IV	15		5
		Unit 5 : Green Skills-IV	05		
		Total		50	
PART B	Subject Specific Skills		Theory	Practical	Marks
	Term I	Unit 1: Movie Editing Tools	10	25	10
		Unit 2: Customizing and Embedding Multimedia Components in Web Pages	25	20	12
		Unit 3: Web Scripting – Java Script	08	10	03
	Term II	Unit 3: Web Scripting – Java Script	22	50	17
		Unit 4: Work Integrated Learning IT– WA-II	20	20	8
		Total		85	125
PART C	Practical Work				
	Practical Examination				20
	• Movie Editing Tools: (5 Marks)				
	• Customizing and Embedding, Multimedia, Components in Web Pages (05 Marks)				
	• Web Scripting - JavaScript (10 Marks)				
	Practical File				5
Viva Voce				5	
	Total				30
PART D	Project Work/Field Visit /Practical File/ Student Portfolio				10
	Total				10
	GRAND TOTAL		260		100

DETAILED CURRICULUM/ TOPICS FOR CLASS XII

PART-A: EMPLOYABILITY SKILLS

S. No.	Units	Duration in Hours
1.	Unit 1: Communication Skills-IV	10
2.	Unit 2: Self-Management Skills-IV	10
3.	Unit 3: Information and Communication Technology Skills-IV	10
4.	Unit 4: Entrepreneurial Skills-IV	15
5.	Unit 5: Green Skills-IV	05
	TOTAL DURATION	50

NOTE: Detailed Curriculum/ Topics to be covered under Part A: Employability Skills can be downloaded from CBSE website.

PART-B – SUBJECT SPECIFIC SKILLS:

- Unit 1: Movie Editing Tools
- Unit 2: Customizing and Embedding Multimedia Components in Web Pages.
- Unit 3: Web Scripting – Java Script
- Unit 4: Work Integrated Learning IT – WA-II.

	UNIT TITLE	TOTAL MARKS
UNIT-1	Movie Editing Tools: <ul style="list-style-type: none">- Familiarization of Interface Components.- Importing Pictures.- Importing Audio and Video Files.- Splitting and Joining Movie Clips.- Adding Titles and publishing	10
UNIT-2	Customizing and Embedding Multimedia components in Web Pages: <ul style="list-style-type: none">- Compatible Multimedia file formats for Web Pages.- Embedding Audio file.- Embedding Video file.- Embedding Flash file.	12

	UNIT TITLE	TOTAL MARKS
UNIT- 3	Web Scripting – JavaScript: <ul style="list-style-type: none"> - Java Script review. - Functions -user defined. - String Object. - Math Object. - Array Object. - Events - Case Studies. 	20
UNIT-4	Work Integrated Learning IT – WA-II: <ul style="list-style-type: none"> – Advanced Features of Web Design. – Code view, Add-ins / Snippets and Page Transitions. – Dynamic Web templates. – SEO - Search Engine Optimization. – Forms - Advanced. – Publishing web pages or Websites-I. – Publishing web pages or websites-II. – Authoring tools. – CSS templates. 	8
	TOTAL MARKS	50

PART C: PRACTICAL SKILLS:

DETAILS	MARKS DISTRIBUTION
Programs / Practical Questions <ul style="list-style-type: none"> - Movie Editing Tools (10 Marks) - Customizing and Embedding, - Multimedia, Components in Web Pages (10 Marks) - Web Scripting - Java Script (5 Marks) 	25
Project / Practical File	10
Viva Voce	05
TOTAL MARKS	40

LIST OF EQUIPMENT AND MATERIAL:

Following is the proposed list of basic tools and equipments for conducting the practical examination. The list given below is suggestive and not an exhaustive list to be prepared by the vocational teacher so that the routine tasks can be performed by the students regularly for practice and acquiring adequate practical experience:

1. Desktop / Laptop
2. Printer
3. Scanner
4. Digital image Capturing Device (Digital Camera/ Webcam etc.)
5. Software- GUI Operating System, Web Browser, GIMP, Text Editor (Notepad) etc.
6. Internet Connection

NOTE: Students should be exposed to various Networks, Websites, during Field Visits.

CAREER OPPORTUNITIES:

The Web Application course raised the opportunities in all the industries worldwide. The job profiles for the web developers are: -

- ❖ Web Applications Developer
- ❖ Front End Web Developer
- ❖ Back-end web Developer
- ❖ Design and Layout analyst
- ❖ Web marketing analyst
- ❖ Senior Web analyst
- ❖ Brand Development
- ❖ E-Commerce Design and Development
- ❖ Product Designer
- ❖ Design Studio
- ❖ IT companies
- ❖ UX Designer (User Experience Designer)
- ❖ U I Designer (User Interface Designer)

VERTICAL MOBILITY:

The students can do: -

- ❖ Graduation in Multimedia and Website Designing
- ❖ Diploma in Web Designing,
- ❖ PG Diploma in Internet & Web Designing.
- ❖ Graduation and Diploma courses in E-Commerce and web Design