HUNERKADA
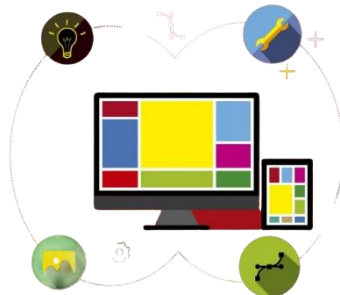## College of Visual & Performing Arts

DIPLOMA COURSE

SUBJECT: - WEB DESIGN DEVELOPMENT

Objective & Benefits

- Understand the fundamentals of web development, including HTML, CSS, and JavaScript.
- Develop front-end web applications using HTML, CSS, and JavaScript.
- Develop back-end web applications using a programming language such as PHP, Python, Flask, DjangoJava etc.
- Deploy web applications to a production environment.
- Work effectively as part of a team to develop web applications.
- Communicate effectively with both technical and non-technical audiences about web developmentprojects.
- Identify and solve problems in a timely and efficient manner.
- Work as Freelancer, Entrepreneur etc.

Duration: - 3 Months / 6 Months / 1 Year / 2 Year

Class Timings: - (Four days a week) (Morning / Evening)

Course Outline:

Scheduled Weeks	Module Title	Days	Learning Units	Home Assignment
Week 1	Introduction to Full Stack Web Development Exploring Different Websites HTML	Day 1	**Motivational Lecture** • Course Introduction • Difference between full stack web development/ Developer • Front end and Back-end difference • Difference between DBMS and RDBMS • Tools, Platforms and Frameworks • Introduction to Programming (HTML)	Give a recall to today's lecture.
		Day 2	• HTML Introduction (HTML Editors Notepad, Text Edit). • How to write code using tags. • How to save HTML file • View the HTML page	• Write the name of the institute using any editor and save the HTML file and also view it.

		Day 3	HTML Basics • HTML documents • DOCTYPE declaration • HTML Headings • HTML Paragraphs • HTML Links • HTML Images • View HTML source code	• Write a title of your web page. • Write six levels of headings, insert paragraph (3-4lines), insert alink, insert animage and take screenshot of source code.
		Day 4	**Success Stories** • HTML Elements • Nested HTML Elements	• Write HTML code using elements and nested elements. • Save the file. • Take screenshot of web page.
		Day 5	HTML Attributes • href Attribute • src Attribute • width and height Attributes • alt Attribute • style Attribute • lang Attribute • title Attribute **Weekly Assessment**	• Write HTML code using all attributes.

Scheduled Weeks	Module Title	Days	Learning Units	Home Assignment
Week 2	HTML	Day 1	**Motivational Lecture** • HTML Paragraphs • Examples	
		Day 2	• HTML Display • HTML Line Break etc.	Implement these Tags
		Day 3	HTML Basics • HTML Tag reference • Exercise	• Implement all tags into your web page
		Day 4	Success Stories • HTML Attributes	• Insert an image and link of other web page into your webpage
		Day 5	• Recall all previous topics + exercise **Weekly Assessment**	• Use all previous learned tags to create a new web page.

Scheduled Weeks	Module Title	Days	Learning Units	Home Assignment
Week 3	HTML	Day 1	**Motivational Lectures** • HTML Styles • Exercise	Practice Questions
		Day 2	• HTML Style Attributes	Use all learned attributes into your web page
		Day 3	HTML Text Formatting + **Success Stories**	Update your web page to use new Tags
		Day 4	HTML Text Formatting + Practice + Exercise	Update your web page to use new Tags
		Day 5	Practice Exercise **Weekly Assessment**	• Write HTML code using all attributes.

Scheduled Weeks	Module Title	Days	Learning Units	Home Assignment
Week 4	HTML	Day 1	**Motivational Lecture** HTML Quotations + Examples + Practice Exercises	Give a recall to today's lecture.
		Day 2	• HTML Comments • Lab work	• Practice Questions
		Day 3	HTML Colors + Practice exercise	Update your web page with new features of HTML that you have learned
		Day 4	• HTML CSS • Introducing some more new features	• Implement into your web page
		Day 5	• Practice Exercises **Success Stories** **Weekly Assessment**	• Update your web page ….

Scheduled Weeks	Module Title	Days	Learning Units	Home Assignment
Week 5	HTML	Day 1	**Motivational Lectures** HTML Links + Images + Favicon and Page Title	Implement into your web page
		Day 2	Tables	Exercise
		Day 3	Lists Success Stories	Make Tables and lists into your web page…
		Day 4	Block and Inline	Exercise
		Day 5	Lab work **Weekly Assessment**	Recall all previous lectures that you have learned up to now

Scheduled Weeks	Module Title	Days	Learning Units	Home Assignment
Week 6	**HTML**	Day 1	Motivational Lectures Classes	Give a recall to today's lecture.
		Day 2	HTML Id	Practice questions
		Day 3	HTML Iframes	Exercise
		Day 4	JavaScript Success Stories	Practice
		Day 5	Lab work **Weekly Assessment**	Recall all previous lectures

Scheduled Weeks	Module Title	Days	Learning Units	Home Assignment
Week 7	**HTML**	Day 1	HTML vs XHTML	Give a recall to today's lecture.
		Day 2	HTML Forms	Practice
		Day 3	HTML Graphics	Exercise
		Day 4	HTML Media (Media, Audio, Video, Plug-ins, You Tube etc.)	Recall todays and all previous lectures
		Day 5	Lab work **Weekly Assessment**	Practice should be made on all previous lectures and topics

Scheduled Weeks	Module Title	Days	Learning Units	Home Assignment
Week 8	**CSS**	Day 1	HTML APIs	Give a recall to today's lecture.
		Day 2	CSS • Introduction • Syntax • Selectors • Comments • Colors	Practice Exercise
		Day 3	CSS Background, Borders, Margins, Padding etc.	Practice Questions
		Day 4	Height / Width, Box Model, Outline etc.	Practice Questions
		Day 5	Lab Work + **Weekly Assessment**	Implement all CSS Attributes into your web page.

Scheduled Weeks	Module Title	Days	Learning Units	Home Assignment
Week 9	**CSS**	Day 1	Text, Fonts, Icons	Give a recall to today's lecture.
		Day 2	Links, Lists, Tables	Practice Questions
		Day 3	Display, Navigation Bar, Align	Practice Questions
		Day 4	Practice + Exercise	Exercise
		Day 5	Lab Work + **Weekly Assessment**	Practice Questions.

Scheduled Weeks	Module Title	Days	Learning Units	Home Assignment
Week 10	CSS	Day 1	More Features of CSS	Give a recall to today's lecture.
		Day 2	Dropdowns, Image Gallery	Practice Questions
		Day 3	Examples + Practice	Practice Questions
		Day 4	Forms + Other features	Practice should be made on all previous lectures and topics
		Day 5	Lab Work + **Weekly Assessment**	Practice should be made on all previous lectures and topics

Scheduled Weeks	Module Title	Days	Learning Units	Home Assignment
Week 11	Java Script	Day 1	Introduction to Java Script	Give a recall to today's lecture.
		Day 2	Script Tags, Functions and Events, Advantages etc.	Practice should be made on all previous lectures and topics
		Day 3	Java Script output, using inner java etc.	Exercise
		Day 4	Java Script Statements	Exercise
		Day 5	Examples + **Weekly Assessment**	Recall and practice on all previous lectures.

Scheduled Weeks	Module Title	Days	Learning Units	Home Assignment
Week 12	Java Script	Day 1	JS Syntax	Practice questions
		Day 2	JS Comments	Practice questions
		Day 3	JS Variables	Practice should be made on all previous lectures and topics
		Day 4	Examples	Exercise
		Day 5	Examples + **Weekly Assessment**	Practice should be made on all previous lectures and topics

Scheduled Weeks	Module Title	Days	Learning Units	Home Assignment
Week 13	Java Script	Day 1	JS Operators, Arithmetic, Assignment etc.	Practice should be made on all previous lectures and topics
		Day 2	JS Data Types	Exercise
		Day 3	JS Functions	Recall today and all previous lectures.
		Day 4	JS Objects and Events	Practice all Events
		Day 5	Examples + **Weekly Assessment**	Practice should be made on all previous lectures and topics

Scheduled Weeks	Module Title	Days	Learning Units	Home Assignment
Week 14	**Java Script**	Day 1	JS Loops	Practice questions
		Day 2	JS Arrays	Practice questions
		Day 3	JS Classes & Modules	Exercise
		Day 4	JS JSON	Exercise
		Day 5	JS Debugging + **Weekly Assessment**	Recall and practice thoroughly on all previous topics and lectures.

Scheduled Weeks	Module Title	Days	Learning Units	Home Assignment
Week 15	**jQuery**	Day 1	jQuery Introduction, Syntax, Events etc.	Give a recall to today's lecture.
		Day 2	jQuery Effects	Exercise
		Day 3	jQuery HTML	Practice should be made on all previous lectures and topics
		Day 4	jQuery Examples	Do more at your end
		Day 5	Examples Queries +**Weekly Assessment**	Recall and practice on all previous topics and lectures.

Scheduled Weeks	Module Title	Days	Learning Units	Home Assignment
Week 16	jQuery	Day 1	jQuery AJAX	Practice on today's lecture.
		Day 2	jQuery Examples	Exercise
		Day 3	Assign mini Projects	Work on Project
		Day 4	Assist to students on Project	Work on project
		Day 5	Assist students on making mini project	Complete your Project

Scheduled Weeks	Module Title	Days	Learning Units	Home Assignment
Week 17	Bootstrap	Day 1	BS introduction, Grid Basic	Try to use it in your web page.
		Day 2	BS images	Practice at your end
		Day 3	BS Button & Button Groups	Practice questions
		Day 4	BS Badges and Labels	Practice questions
		Day 5	BS Dropdowns, Navigation Bar etc.	Practice should be made on all previous lectures and topics

Scheduled Weeks	Module Title	Days	Learning Units	Home Assignment
Week 18	PHP	Day 1	PHP Intro, Install, Syntax, Comments, Examples	Practice questions
		Day 2	PHP Variables, Echo / Print…..	Practice at your end with example
		Day 3	PHP Data types, Strings, Numbers, Math….	Recall today and previous lectures
		Day 4	PHP if else statements	Practice questions
		Day 5	Examples + Practices + **Weekly Assessment**	Practice should be made on all previous lectures

Scheduled Weeks	Module Title	Days	Learning Units	Home Assignment
Week 19	PHP	Day 1	Switch statements and loops	Give a recall to today's lecture.
		Day 2	Functions, Arrays	Practice Questions
		Day 3	PHP Forms	Design and make new forms
		Day 4	PHP Forms and MySQL Database	Practice should be made
		Day 5	MySQL Database Connect, Create DB, Create Table, Insert Data…	Create your own database and make some entries.

Scheduled Weeks	Module Title	Days	Learning Units	Home Assignment
Week 20	PHP and Database	Day 1	Insert multiple Data, Select query …..	Practice questions
		Day 2	PHP XML	Practice Questions
		Day 3	Examples and more Practices related to PHP XML	Recall today and previous topics
		Day 4	PHP – AJAX	Practice questions.
		Day 5	Examples and more Practices related to PHP - AJAX	Update your database

Scheduled Weeks	Module Title	Days	Learning Units	Home Assignment
Week 21	MYSQL	Day 1	MySQL SELECT, WHERE, AND, OR, NOT……	Implement these queries into your Database.
		Day 2	MySQL ORDERED BY, INSERT INTO, UPDATE, DELETE….	Practice questions
		Day 3	MySQL Crate DB, Drop DB, Create Table, Drop Table, Alter Table….	Update your DB
		Day 4	MySQL Primary Key, Foreign Key, Unique…..	Implement into your DB
		Day 5	Create Index, Auto Increment, Dates, Views	Implement all these queries into your DB

Scheduled Weeks	Module Title	Days	Learning Units	Home Assignment
Week 22	**Python (Flask)**	Day 1	Python. Introduction, Syntax, Variables, Data Types….	Give a recall to today's lecture.
		Day 2	Type Casting, Operators, Strings…..	Practice questions
		Day 3	Python Frameworks (Django and Flask)	Practice questions
		Day 4	Work on Python (Flask)	Practice questions
		Day 5	Work on Flask	Practice questions

Scheduled Weeks	Module Title	Days	Learning Units	Home Assignment
Week 23	**Python (Flask)** + **Final Project**	Day 1	Motivational Lecture Assist Students to make and select final project	
		Day 2	Motivate Students Assist Students to make and select final project	
		Day 3	Motivate Students Assist Students to make final project	
		Day 4	Motivate Students Assist Students to make final project	
		Day 5	Motivate Students Assist Students to make final project	

Scheduled Weeks	Module Title	Days	Learning Units	Home Assignment
Week 24	**Final Project**	Day 1	Motivational Lectures Assist Students to make final project	
		Day 2	Assist Students to make final project Success Stories	
		Day 3	Motivate Students Assist Students to make final project	
		Day 4	Motivate Students Assist Students to make final project	
		Day 5	**Submission of Final Project**	