

B.Voc- Software Development

Syllabus

CERTIFICATE COURSE IN WEB DEVELOPMENT



Pune District Education Association's

Baburaoji Gholap College, Sangvi, Pune-27.

(To be implemented from Academic Year 2023-2024)

CERTIFICATE COURSE IN WEB DEVELOPMENT

COURSE OBJECTIVE: Display knowledge of the fundamental building blocks of the web (HTTP and HTML)

- Demonstrate comprehension of common security concerns in web applications

COURSE OUTCOME:- Demonstrate the ability to construct web pages using HTML5, CSS, and CSS frameworks

- Demonstrate skills of programming in JavaScript
- Demonstrate skills of creating web pages using Node.js
- Demonstrate skills of constructing database-backed web applications

Course Type	Course Code	Paper Title	Credit		Evaluation		
			Theory (T)	Practical (P)	Theory Exam(TE)	Practical Exam (PE)	Total
CCWD	CCED27	CERTIFICATE COURSE IN WEB DEVELOPMENT	1	1	30	40	60

MODULE	TOPIC	Duration
HTML	Introduction Structure of a website Your first website Headings Paragraphs Links Images Inline vs Block Elements Iframes - Activity: Embed a nice relaxing YouTube video to your website Unordered Lists Ordered Lists Description Lists Tables Entities Forms (1) - Activity: Create a simple Login Form Text Decoration Comments Forms (2) - Activity: Create a Marketplace Checkout Form	15
CSS	Introduction (Day 5) Inline CSS Internal CSS External CSS Classes and IDs Div and Span Box Model Box Model : Padding Box Model : Border Box Model : Outline Box Model : Margin Background	10

	Page 2 Image sprites 2D-transformations 3D-transformations Transitions animations Bootstrap Getting started with Bootstrap Setup templates and Navbar Typography forms and tables CSS components Grid systems Modal, Dropdown, tabs & tooltip Collapse, accordion and carousel Custom bootstrap theme	
Jquery	Getting started with Jquery Selectors and Mouse events Form events DOM manipulation Effects & animation, Traversing and filtering	10
Ajax	Introduction (Day 16) Technologies Examples Browser support Action XMLHTTP request Database operation security issues	10
Javascript	Introduction Buttons Change html content Change style content Page 3 Variable and data types Change html using variables Functions Objects Object constructors array if• & else for loop while loop Regular expressions Errors Set interval and set timeouts Window and screen Alert boxes Cookies	5
PHP	Introduction Embed PHP in html PHP variable Data types: string Data types: Integer• & floats Data types: Boolean Data types: objects Data types: array	10

	Data types: null Get• & post Array functions Send emails Filter user inputs Data• & time Include PHP files File handling Upload files Cookies Error Handling Sessions	
	Total	60hr

Text & Reference Books (Latest revised edition):

- 1.Web Programming, building internet applications, Chris Bates 2" edition, Wiley Dreamtech
 - 2.Java Server Pages —Hans Bergsten, SPD O'Reilly,
 - 3.Java Script, D.Flanagan
 - 4.Beginning Web Programming-Jon Duckett WROX.
 - 5.Programming world wide web, R.W.Sebesta, Fourth Edition, Pearson.
- Internet and World Wide Web — How to program. Dietel and Nieto, Pearson.

EXAMINATION AND EVALUATION:

ELIGIBILITY:

A candidate is eligible for admission to the Certificate Course Intellectual Property Rights after passing 12th Std. examination (H.S.C. 10 +2) from any stream or equivalent.

EXAMINATION PATTERN:

Internal Assessment:-

1. 40 percent of the total assessment will be done by internal examination.
2. One internal examination will be conducted for theory in mid time of the course.
3. The pattern of examination will be oral for theory.
4. The practical assessment is done on the basis of the assignments submission during the practical session.
5. Subject teachers have to design assignments for students according to syllabus during practical session.
6. The in-house teachers are responsible for conduction and coordination of the

internal theory as well as practical examination.

Term end examination:

1. 60 percent of the total assessment will be done in term end examination.
2. There will be 3 hours practical exam and 1 hour oral exam for each student.
3. Examiners: 2 lecturer level examiners will be appointed (one internal examiner and one external examiner)

Setting of Question Papers (Applicable to theory subjects)

1. A candidate shall have to answer the questions in all the subjects in English only.
2. Question papers shall be framed so as to ensure that no part of the syllabus is left out of study by a candidate.
3. Question paper shall be balanced in respect of various topics outlined in the Syllabus.
4. The question papers shall have a MCQ type Questions.

AWARD OF CREDITS:

Each course having 2 credits shall be evaluated out of 100 marks and student should secure at least 40 marks to earn full credits of that course.

GRADATION:

Gradation is according to following formula.

New Grades		
Percentage Marks	Grade	Grade Points
0	F	1
40	E	2
45	D	3
50	C	4
55	B	5
65	A	6
75	O	7

CERTIFICATION:

The college needs to provide 'Course Completion Certificate' to every student who completes the course successfully. The certificate must contain the grade obtained by the student in the examination.

Dr. Balkrishna N. Zaware

Principal
Baburaoji Gholap College, Sangvi, Pune-27.

IQAC

(Dr. Sangeeta Jagtap)
Baburaoji Gholap College, Sangvi, Pune-27.

Short Term Course Coordinator

(Prof. Vijay Ghare)
Baburaoji Gholap College, Sangvi, Pune-27.

HoD

(Mrs. Sonal Kadam)
Department of Software Development
Baburaoji Gholap College, Sangvi, Pune-27.

Course Coordinator

(_____)
Department of Software Development
Baburaoji Gholap College, Sangvi, Pune-27.

Industry Expert

Subject Expert