



KSKW Arts, Science and Commerce College CIDCO, Nashik-422

008

Affiliated to Savitribai Phule Pune University, Pune



FOR

Certificate Course in Web Designing (6 Months)

Under Scheme of

B. Voc. of UGC [NSQF]

[Effective from 2020-21]

UGC Sponsored B. Voc Programme

1. Preamble

The Government of India to meet the goal of empowering the youth and also to make education relevant and creating 'industry fit' skilled work force, initiated the B. Voc. programs. Based upon the guidelines for B. Voc. courses issued by AICTE, UGC and also the guidelines of B. Voc. programs in colleges in NSQF (Academic council sub-

committee report of SPPU, June 2019) the Board of studies has prepared the admission rules, regulations and syllabus structure common for the programs.

2. Objectives

- To provide judicious mix of skills relating to a profession and appropriate content of general education.
- To ensure that the students have adequate knowledge and skills so that they are work ready at each exit point of the program.
- To provide flexibility to the students by means of pre-defined entry and exit points.
- To integrate NSQF within the UG level of higher education in order to enhance employability of the graduates and meet industry requirements. Such graduates apart from meeting the needs of local and national industry are also expected to be equipped to become part of the global workforce.
- To provide vertical mobility to students coming out of 10+2 vocational subjects.
- Global mobility of skilled work force from India through international equivalence of NSQF.

The focus is to formulate courses as per the regional skill gap as per the need of

- i. Industry in specialized areas
- ii. Design curriculum and contents in the areas of skill development.
- iii. Pedagogy, assessment for skills development education and training.
- iv. Trained faculty to deliver in the areas of skill development and
- v. Entrepreneurship development.

3. Duration of the B. Voc. Programs: 6 months.

4. Eligibility for Admission to the B. Voc. Programs

- i. Type A - Students who have already acquired NSQF certification level 4 in a particular trade and opted
- ii. Type B - Students who have passed 10+2 or equivalent in any stream from any recognized board or university without any background of vocational training.

- iii. Type C – Students passed 10+2 examination with conventional schooling without any background of vocational training.

While admitting type B and type C students' additional courses for skill intensive training and teaching during the first six months shall be mandatory for such students, who will be assessed and certified for NSQF level 4 of skill competency by concerned CSA at the end of first semester. However, students belonging to type A will not require such certification as they were already having NSQF level 4 certificates in same industry sector / job role required for specified skill credits. All students continuing to Diploma courses or further will be treated at par from second semester onwards. Student may exit after diploma or advanced diploma level courses or above. The academic progression for students in vocational stream after senior secondary level should be as per table 1 and thus the curriculum shall be framed as per these guidelines.

Table 1: Credits details

NSQF Level	Skill component credits	General Education Credits	Total credits for Award	Normal duration	Exit points / Awards
4	18	12	30	6 months	Certificate

5. COMMON COURSE STRUCTURE AND CREDIT DISTRIBUTION

Table 2: Typical courses and distribution of theory, practical, contact hours and credits.

Course structure of Certificate Course in Web Designing Certificate Course in Web Designing

Course code	Name of subject	Theory/practical	Contact hours	Credits
CWDG101	Introduction to web design	TH	60	4
CWDG102	HTML & CSS			
CWDG102	Java script & Bootstrap	TH	60	4
CWDG103	Photoshop & CMS	TH	60	4
CWDS101	Practical based on CWDG101	PR	90	6
CWDS102	Practical based on CWDG102	PR	90	6
CWDS103	Practical based on CWDG103	PR	90	6
Total Practical Credits			450	30

- One credit would mean equivalent of 15 periods of 60 minutes each for theory lectures.
- For lab course / workshops/ internship/ field work / project, the credit weightage for equivalent hours shall be 50% that for lectures.
- The courses offered shall be in accordance to the rules / norms of the respective apex body (UGC/AICTE).
- The number theory papers and practicals shall be decided by each program depending upon the knowledge domains required.

6. Examination

a. Theory Courses –

- i. The assessment of theory subjects shall include continuous internal assessment [CIA] of 50% of total marks which can include midterm test, short quiz, assignment, extension work, project work, seminar, presentations etc. There shall be Semester End Examination [SEE] of 50% of the total marks.
- ii. The student should get minimum 30% marks in CIA and SEE each and minimum 40% in CIA and SEE jointly.
- iii. In case of failure in CIA the student shall appear only in the next academic year when the said course is offered in the regular academic session at his/her responsibility. However in case of failure in SEE in particular course(s) exam will be conducted in immediate subsequent semester.
- iv. In case a student fails in certain course(s) in a particular semester and the same course(s) are modified / revised/removed from the curriculum in due course, the student will have to appear as per the newly framed curriculum and/or pattern in subsequent semester at his/her own responsibility.

b. Practical Courses-

- i. The skill component of the course will be assessed and certified by the respective Certified Skill Assessor. The Certified skill assessor for a specific trade is made available by the respective sector skill council or a committee headed by the respective board or prescribed by the concerned regulatory body. Assessment of practical courses / on job training course shall be in equal proportion by the internal and external examiners.
- ii. The semester end exam for practical courses shall be conducted at the end of each semester along with the theory exams.
- iii. A student must get minimum 40% marks (jointly in internal and external) to pass in the practical courses.

7. Grading System

Table 3: Letter Grades, Points and Marks

Letter Grade	Points	Marks obtained
O: Outstanding	10	80-100
A+: Excellent	9	70-79
A: Very Good	8	60-69
B+: Good	7	55-59
B: Above Average	6	50-54

C: Average	5	45-49
P: Pass	4	40-44
F: Fail	0	0-39
Ab: Absent	0	-

Table 4: Grade point Average

Grade Point Average	Grade
9.00 – 10.00	O
8.50 – 8.99	A+
7.50 – 8.49	A
6.50 – 7.49	B+
5.50 – 6.49	B
4.25 – 5.49	C
4.00 – 4.24	P
0.00 – 3.99	F

8. Computation of SGPA and CGPA

- The semester end grade sheet will contain grades for the course along with titles and SGPA. Final grade sheet and transcript shall contain CGPA.
- SGPA: The performance of a student in a semester is indicated by a number called the semester grade point average (SGPA). The SGPA is the weighted average of grade points obtained in all the courses registered by the student during the semester.

Semester Grade Point Average (SGPA) =

$$SGPA = \frac{\sum_{i=1}^p C_i G_i}{\sum_{i=1}^p C_i}$$

$$= \frac{\sum \text{Grade Points earned} \times \text{Credits for each course}}{\text{Total credits}}$$

SGPA is calculated up to two decimal places by rounding off.

- **CGPA:** The CGPA is the weighted average of the grade points obtained in all the courses (theory Practical courses) of all the semesters till the respective exit point. It is calculated in the same manner as the SGPA. It is calculated based upon the SGPA of the concerned semesters.

9. OTHER RULES- University may frame additional rules and regulations or modify these regulations if needed and once approved by the University they would be binding on the students.

Course Code

Course code contains 4 characters to indicate course paper details & 3 digits for paper number.

Example: CWDG101

C: Certificate course

WD: Web Designing

G/S: General Component (G) / Skill Component (S)

101: paper number

Certificate Course in Web Designing

CWDG101 : Introduction To Web Designing (HTML & CSS)

Total credits: 4

Teaching Hours-60

Aim of the course: To develop the skill & knowledge of Web page design.

Outcomes of the course: The student will be able to

1. Define the principle of Web page design
2. Define the basics in web design
3. Visualize the basic concept of HTML.
4. Recognize the elements of HTML.
5. Introduce basics concept of CSS.

Syllabus

Unit-I: Introduction to HTML5**20 Hours**

What is HTML?, HTML Documents, Basic structure of an HTML document, Creating an HTML document, Mark up Tags, Heading-Paragraphs, Line Breaks ,HTML Tags.

Unit-II Elements of HTML5**20 Hours**

Introduction to elements of HTML ,Working with Text, Working with Lists, Tables and Frames ,Working with Hyperlinks, Images and Multimedia ,Working with Forms and controls, Working with canvas.

Unit-III Introduction to Cascading Style Sheets**20 Hours**

Concept of CSS, Creating Style Sheet, CSS Properties, CSS Styling(Background, Text Format, Controlling Fonts) ,Working with block elements and objects, Working with Lists and Tables, CSS Id and Class, Box Model(Introduction, Border properties, Padding Properties, Margin properties), CSS Advanced(Grouping, Dimension, Display, Positioning, Floating, Align,Pseudo class, Navigation Bar, Image Sprites, Attribute selector, CSS Color, Creating page Layout and Site Designs.

Reference Books

- 1) M. Schafer HTML, XHTML, and CSS Bible, 5ed Wiley India
- 2) John Duckoett Beginning HTML, XHTML, CSS, and JavaScript Wiley India
- 3) Ian Pouncey, Richard York Beginning CSS: Cascading Style Sheets fStevenor Web Design Wiley India

Certificate Course in Web Designing**CWDG102 : Javascript & Bootstrap****Total credits: 4****Teaching Hours-60**

Aim of the course: To Develop basic programming skills using Javascript & learn how it fits into website development. To learn how to use framework to build websites.

Outcomes of the course: The participant will learn

- 1) Writing validation code with javascript
- 2) Build responsive designs with Bootstrap
- 3) Understand how the HTML, CSS and JavaScript components of Bootstrap work

Syllabus

Unit-I: Introduction to Javascript **15 Hours**

JavaScript Overview ,JavaScript Syntax ,Type of JavaScript ,Embedding Script In HTML File ,Variable,Operators in javascript

Unit-II : Event handling and introduction to JQuery **15 Hours**

Event Type ,Mouse Events, Frame/Object Events, Form Events
JqueryImage Scroller, Form Validation, Menu

Unit-III Introduction to Bootstrap **15 Hours**

Introduction to Bootstrap,
Navigation - Breadcrumb Footer Headers Navbar Pagination Sidenav
Components- Alerts, Badges, Buttons, ButtonGroup, Cards, Carousal, Chips, Collapse, lightbox

Unit-IV Working with forms & creating templates using Bootstrap **15 Hours**

Form Designing

Form Events

Popup Modals

Creating a Admin Template

Creating a user template

Reference Books

- 1) M. Schafer HTML, XHTML, and CSS Bible, 5ed Wiley India
- 2) John Duckoett Beginning HTML, XHTML, CSS, and JavaScript Wiley India
- 3) Ian Pouncey, Richard York Beginning CSS: Cascading Style Sheets fStevenor Web Design Wiley India

Certificate Course in Web Designing

CWDG103 : Content Management System & Photoshop

Total credits: 4

Teaching Hours-60

Aims of the course: To introduce students with Content Management Systems.

Objectives: To introduce the learners with the following aspects.

- 1) content development basics
- 2) tools for multimedia content development for audio/ video, graphics, animations
- 3) Hosting websites and developing content for social media platforms

Unit-I Introduction to CMS

5 Hours

Introduction to Wordpress,WIX

Unit-II Website Planning

15 Hours

Planning your wix website design

Planning your website pages wording

Planning your website pictures,videos and logos

Unit-III Getting started with WordPress

20 Hours

WordPress.com vs. WordPress.org

Installing and Running WordPress

Creating Posts

Posts vs. Pages

Creating a New Post

The Formatting Toolbar

Copying and Pasting Content

Text Formatting

Creating Links

Adding Images

Using Featured Images

Adding Images form a URL

Adding an Image Gallery

Using Page Templates

Creating a Static Front (Home) Page

Managing Pages and Posts

Quick Edit

Bulk Edit

Managing Images, Video and Other Media

Creating a Portfolio

Portfolio Categories

Installing Plugins

Installing an E-Commerce Plugin

Installing a Social Media Button Plugin

The Theme Customizer

Using Widgets

Custom Menus

Managing Your User Profile

Unit-IV Getting started with wix

10 Hours

Wix Sign up and selecting a pre made or blank template

Wix Editor

Background for pages and sections

Adding forms
Adding a wix store

Unit- V Photoshop

10 Hours

Create a new canvas
Draw a basic shape
Duplicate and edit the shape
Add colour with a gradient
Group and duplicate your layers
Transform the shapes
Group, duplicate, repeat
Draw a circle with the shape tool
Draw a rectangle and align to the centre
Add your text
Choose an appropriate typeface
Adjust your kerning
Add final details and export

References:

- 1) Web Content Management Systems O'Reilly Publication by Deane Barker
- 2) Adobe Photoshop CC Classroom in a book (2019) by Andrew Faulkner & Conrad Chavez

Certificate Course in Web Designing

CWDS101 : Practical based on CWDG101 (HTML & CSS)

Total credits: 6

Teaching Hours-90

HTML5 Assignments

1) Write a HTML Program to design a form which should allow to enter your personal data (Hint: Make use of text field, password field, email, submit button) Align the form to center.

2) Write html code to generate following output.

- Coffee

- Tea

- o Black Tea

- o Green Tea

- Milk

3) Write a HTML code to generate following output Maharashtra

- o Pune

- I.Dighi

- II.Moshi

- III.Shivajinagar

- o Mumbai

- I.Santakruiz

- II.Vikroli

- III.Mumbra

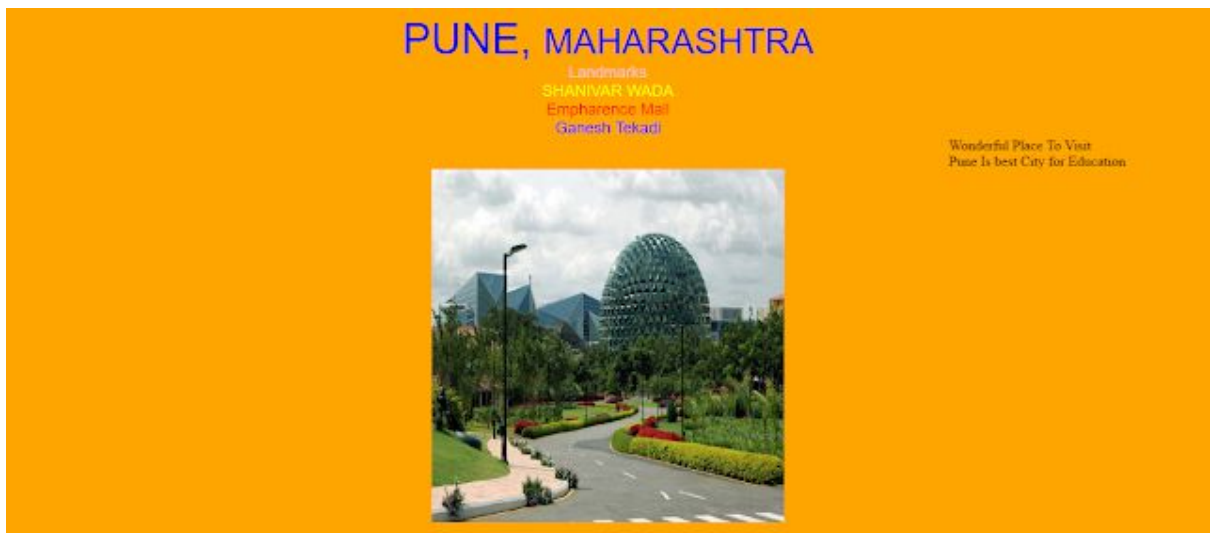
4) Create an html page with following specifications

Title should be about myCity Place your City name at the top of the page in large text and in blue color Add names of landmarks in your city each in a different color, style and typeface One of the landmark, your college name should be blinking . Add scrolling text with a message of your choice

5) Design an html form to take the information of a customer visiting a departmental store such as name, contact phone no , preferred days of purchasing , favorite item (to be selected from a list of items), suggestions etc. One should provide button to Submit as well as Reset the form contents.

6) Create an HTML page with the following specifications

- a. Title should be about MYCITY
 - b. Place your city name at the top of the page in large text and in blue color
 - c. Add names of landmarks in your city each in a different color, style and typeface.
 - d. One of the landmarks, your college name should be scrolling.
- Add scrolling text with a message of your choice
- f. Add same image at the bottom (HINT: use appropriate header and footer for the page)
 - g. Use Marquee

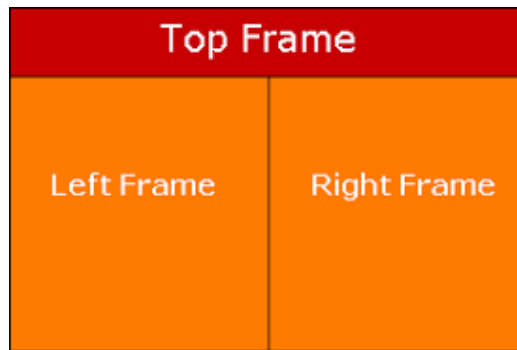


7) create a table in html?

8) Write a HTML code to generate following output and also add a video.

This page is a demo

9) Write a HTML code to generate following output.



10) Write the HTML5 code which generates the following output

COUNTRY	POPULATION (IN CRORES)	
	1998	1999
india	85	90
	100	110
	120	130
USA	30	35
	40	45
	50	60
UK	25	30
	35	40
	45	55

CSS Assignments

1) Write the HTML code which generates the following output and display each element in list in different size, color & font. Use inline CSS to format the list.

1. DYP

- Courses
 - BCS
 - BCA

2. Indira

- Courses
 - ◆ BCA
 - ◆ Mcs

3. ATSS

1) Courses

- ◆ BBA
- ◆ BCS

2. Write the HTML and CSS code to design a web page. Divide the browser screen into two frames. The first frame will display the heading. The second frame contains a menu consisting of hyperlinks. Clicking on any one of the hyperlinks will display related information in a new page.

3. Write HTML code to display following list. (Use internal CSS to format the list)

i. Arts

- BA
- MA

ii. Commerce

- Bcom
- Mcom

iii. Science

- B.sc.

- M.sc.

4. Write External CSS in HTML using link.
5. Write HTML and CSS code for changing background color “Blue”.
6. Write HTML and CSS code. Use “Border Image and transition” property.
7. Write HTML and CSS code. Use button Property Rounded button.
8. Write a HTML code to display Theory Time Table of FYBSC. Use internal CSS to format the table.

Certificate Course in Web Designing

CWDS102 : Practical based on CWDG102 (Javascript & Bootstrap)

Total credits: 6

Teaching Hours-90

Javascript Assignments

- 1) Write a JavaScript program to accept a number from user and display its multiplication table.
- 2) Write a JavaScript program to calculate the volume of sphere.
- 3) Create a JavaScript to accept a string and check whether the input string is palindrom or not.
- 4) Create a Javascript program to accept the value of n and display all odd numbers upto n.
- 5) Create a JQuery for image slider
- 6) Write a JavaScript program to calculate the Radius of Circle.
- 7) Write a JavaScript program to construct the following pattern up to n lines, using a nested for loop.

```
*  
  
*    *  
  
*    *    *
```

- 8) Write a JavaScript program to compare the values of password and confirmed password field and display message accordingly. Also perform the validation to check any of the field should not be empty.
- 9) Write a java script program to accept a number from user and check whether it is 10 digit or not.
- 10) Write a JavaScript program to accept a string and a position (number) from user and display the character at specified position.
- 11) Design a login form with fields User Name, Password and Login button. Write a java script code to accept username and password, validate login details and display a message accordingly.

Bootstrap Assignments

1. Create a Image Slider and change the sliding Images
2. Create a Hamburger Menu
3. Create a Login Form
4. Create a Registration Form
5. Create an Animation for multiple cards
6. Create a Popup menu
7. Create a Notification Tab
8. Create an Admin Template
9. Create a breadcrumb in page
10. Design a news Page

Certificate Course in Web Designing

CWDS103 : Practical based on CWDG103 (CMS & Photoshop)

Total credits: 6

Teaching Hours-90

Content Management System(CMS) Assignments

- Wordpress Assignments
 - Create a blog website
 - Create a Business Website
 - Create a E Commerce Website
 - Create a Question and Answer Website
 - Create a Non profit and Religious website
 - Create a Portfolio Website
- Wix Assignments
 - Create a E Commerce website
 - Create a College Website
 - Create a Business Website
 - Create a website for NGO

Photoshop and logo designing Assignments

- Create Black and white images
- Blur a image
- Create a logo for computer firm
- Create a logo for College
- Create a retro effect in photoshop
- Place an image in a shape
- Create a photo collage
- Create a photo frame
- Write a text behind an object
- Create a reflection of image

