

Janardan Bhagat shikshan Prasarak Sanstha's
Changu Kana Thakur
Arts, Commerce and Science College, New Panvel (Autonomous)
 Re-accredited A+ Grade by NAAC
 'College with Potential for Excellence' Status Awarded by University Grants Commission
 'Best College Award' by University of Mumbai

Choice Based Credit System

(To be implemented from the academic year 2019-20)

Semester: III Class: S. Y. B.Sc.

Subject: -Certificate Course in Web Development

Paper No.-I

Title: Web Development using Angular JS

Unit-I	Introduction to Angular: AngularJS ,General Features, Core Features, Concepts, Advantages and Disadvantages of AngularJS ,AngularJS Directives- ng-app directive, ng-init directive ,ng-model directive ,ng-repeat directive AngularJS - Environment Setup ,MVC Architecture ,First Application - Creating AngularJS Application ,Executing AngularJS Application ,AngularJS Integrates with HTML	08L
Unit II	AngularJS – Expressions - Using numbers ,Using Strings ,Using Object ,Using Array AngularJS – Filters - Uppercase Filter, Lowercase Filter ,Currency Filter ,Filter ,OrderBy Filter AngularJS – Tables ,AngularJS - HTML DOM ,AngularJS Modules- Application Module ,Controller Module , AngularJS – Forms ,Events ,ng-click ,Validate Data , AngularJS – Ajax AngularJS – Views ,AngularJS – Scopes ,AngularJS – Services ,AngularJS - Dependency Injection , AngularJS - Custom Directives ,Internationalization	07L
	Practicals	15L
1	Develop notepad application using HTML, CSS and Angular JS.	
2	Generate Login form using HTML, CSS and Angular JS.	
3	Design a web form to upload a file using HTML, CSS and Angular JS.	
4	Develop Bootstrap application using HTML, CSS and Angular JS.	

5	Develop translate application using HTML, CSS and Angular JS.	
6	Develop chat application using HTML, CSS and Angular JS.	
7	Develop weather application using HTML, CSS and Angular JS.	
8	Develop maps application using HTML, CSS and Angular JS.	
9	Develop cart application using HTML, CSS and Angular JS	
10	Write JavaScript code for a. Performing various mathematical operations b. Validating the various Form Elements	

Semester: IV Class: S. Y. B.Sc.

Subject: -Certificate Course in Web Development

Paper No.-II

Title: Web Development using Node.JS

Unit-I	Introduction to Node.JS, Node.js - Environment Setup ,Local Environment Setup ,The Node.js Runtime, Download Node.js archive ,Installation on UNIX/Linux/Mac OS X, and SunOS, Installation on Windows ,Node.js - First Application,Creating Node.js Application ,Node.js - REPL Terminal ,Node.js – NPM ,Installing Modules using NPM ,Installing Modules using NPM ,Using package.json, Attributes of Package.json	08L
Unit II	Node.js - Callbacks Concept ,Node.js - Event Loop, Event-Driven Programming ,Node.js - Event Emitter ,Node.js – Buffers ,Creating Buffers, Writing to Buffers Reading from Buffers ,Convert Buffer to JSON, Node.js – Streams ,Node.js - File System, Node.js - Global Objects , Node.js - File System ,Node.js - Global Objects ,Node.js - Utility Modules ,Node.js - Web Module	07L
	Project based on Angular and node.js	15L

Theory Question Paper Pattern:

Question 1	From Unit 1, 2	20 marks
Question 2	From Unit 1	15 marks
Question 3	From Unit 2	15 marks
	Total	50 marks

Course content:

Course Name	Contact Hours				Credits			
	Paper-I	Paper-II	Practical	Project	Theory	Practical	Project	Total Credits
Certificate Course in Web Development	15	15	15	15	02	01	01	04

Total Duration: 60 hrs (One academic Year). Theory: 30 hrs. Practical :15Hrs;
Project/ Case study: 15Hrs

Books and References:

ANGULARJS: Easy AngularJS For Beginners, Your Step-By-Step Guide to AngularJS Web Application Development (AngularJS Series)

www.w3school.com

Evaluation System:

Sr.No	Exam No.	Name of the Students	Theory		Practical	Project/ Industrial Visit /case study	Total Mark	Percent age %	Credits	SGPA	
			Paper -I	Paper -II							
			Maximum Marks	50	50	50	50	200		04	
			Minimum Marks	20	20	20	20				

Credit Earned:

Grade:

Remarks:

Slander of Passing: 40%

Separate head of passing-Theory, Practical's , Project / Industrial Visit/Case study

Grading System:

A Grade	Above 75%
B Grade	60-74%
C Grade	40-59%

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Semester: I Class: F. Y. B.Sc.

Subject: -Certificate Course in Photoshop

Paper No.-I

Title: Photoshop from scratch

Unit-I	<p>Introduction: Introduction to Photoshop, Default Settings, Workspaces, Opening and Creating New Documents, Layers, Blending</p> <p>Tools: Selection Tools, Manipulation Tools- Basics, Manipulation Tools - In Action, Manipulation Tools – Final, Creation Tools – Basics, Creation Tools - Advance Features</p> <p>Workflow: Basics, Usage, Advance</p>	07L
Unit II	<p>Photo Correction: Perspective Distortion, Liquefy Adjustment, Double Row Conversion, Image Processor</p> <p>Effects and Techniques: Sliced Photo with Mask, Textured Portrait Person, Background Blurring, Haze Effect, Grunge Effect, Making Images Pop, Creating a Vignette, Creating Facial Hair, Combining Images, Creating a Drop Shadow, Whitening the Infinity Wall, Creating Weather, Creating Smoke, Alien Skin Effect</p>	08L
Practicals		15L
1	Develop television icon assign background, rounded rectangle tool	
2	Create Body and Body_2 layers apply stroke and inner shadow	
3	Create a Base layer apply stroke and inner shadow	
4	Create a Glossy layer apply brush tool, blending mode and Create a new layer Screen and Screen_2 with necessary components	

5	Add Button layer to Body_2 with necessary components	
6	Create a duplicate Button with enhanced gradient layer	
7	Add Speaker component and television logo with necessary settings	
8	Create a shadow group add background and Eraser Tool	

Books and References:

**Textbook: Photoshop CS5 ALL-IN-ONE FOR DUMMIES by Barbara Obermeier,
Wiley Publishing**

References:

www.udemy.com

<https://www.photoshoptutorials.ws/category/photoshop-tutorials/basics/>

Semester: II Class: F. Y. B.Sc.

Subject: -Certificate Course in Coral Draw

Paper No.-I

Title: Corel Draw X7 Graphic Designing

Unit-I	Introduction: Introduction & Basics of Corel Draw X7, Downloading and Installing Corel Draw X7, Initial Interface, Property Bar and Icons Bar Tools: Pick tool, Shape tool, Smear, Twirl, Smooth Tools, Crop, Knife, Zoom and Hand tools, Freehand and Artistic Media tool, Rectangle, Ellipse and Polygon tools, Text and Table tools	07L
Unit II	Advanced Tools: Parallel Dimensions and Straight Line tools, Drop shadow tool, Color Eye dropper tool, Transparency tools, Interactive Fill and Smart Fill tools Creating Basic Logos in Corel Draw X7: Creating BBC Logo, Creating LG Logo, Creating Pepsi Logo, Creating WordPress Logo, Creating Toyoto Logo,	08L
	Practicals	15L
1	Creating a Party Invitation card: create colored background	
2	Creating a Party Invitation card: create yellow monster	
3	Creating a Party Invitation card: create purple monster	
4	Creating a Party Invitation card: create reverse side of invitation card	
5	Create a Custom Brand Using Unique Typesets	
6	Create a Custom Brand Using Unique Imagery	
7	Create a Custom document make use of Psychedelic Background	
8	Create a Custom document make use of Rainbow Brush	

Books and References:

Textbook: CorelDraw X7 User Guide

References:

- www.udemy.com
- <https://learn.corel.com/tutorials/psychedelic-background-rainbow-brush/>
- <http://www.tutorialspoint.com/listtutorials/corel-draw/1>

Theory Question Paper Pattern:

Question 1	From Unit 1, 2	20 marks
Question 2	From Unit 1	15 marks
Question 3	From Unit 2	15 marks
	Total	50 marks

Course content:

Course Name	Contact Hours				Credits			
	Paper-I	Paper-II	Practical	Project	Theory	Practical	Project	Total Credits
Certificate Course	15	15	15	15	02	01	01	04

Total Duration: 60 hrs (One academic Year). Theory: 30 hrs. Practical :15Hrs;
Project/ Case study: 15Hrs

Evaluation System:

Sr.No	Exam No.	Name of the Students	Theory		Practical	Project/ Industrial Visit /case study	Total Mark	Percent age %	Credits	SGPA
			Paper -I	Paper -II						
		Maximum Marks	50	50	50	50	200		04	
		Minimum Marks	20	20	20	20				

Credit Earned: Grade: Remarks:

Standard of Passing: 40%

Separate head of passing-Theory, Practical's , Project / Industrial Visit/Case study

Grading System:

A Grade	Above 75%
B Grade	60-74%
C Grade	40-59%

Revised Syllabus of Bridge Course in Computer Science

Year 2019-20

Introduction: It is a course in which learners will learn about Basic of Computer Organization & Programming Construction.

Objectives:

- To get review of basic concepts of Computer Design & Architecture.
- Preparing students to exploit with programming skills.

Eligibility: 10+2(Science) passed students

Duration: 10 hrs theory

Fee: Rs. 200/-

Seats: As per demand of the students

Course Outline:

Module - I	Introduction to Computer Systems	5L
	<p>a) Computer Fundamentals- Types of Computers, Generations of Computers, Physical parts of Computers-Input Device, Output Device,Motherboard,IC's,Bus lines,Clock,Microprocessor Chip, Memory Chips,Ports,Power supply,CPU,ALU,CU,Primary Memory,Printers,Secondary Storage Devices.</p> <p>b) Software-Types of OS,Functions,Examples like DOS,UNIX,Linux, Windows, Assembly and Higher Languages.</p> <p>c) Input Output Ports/Connections-Serial, Parallel and Universal Serial Bus, Bluetooth, Firewall.</p>	
Module - II	Programming Methodology	5L
	<p>a) General Concepts-Expressions,variables,Identifiers,Comments, Indentation, Debugging and running programs, Syntax errors, Run-time errors, Logical errors.</p> <p>b) Problem Solving Methodologies-Understanding of problems, Solution, Breaking down solution into simple steps,indentification of arithmetic and logical operations.</p> <p>c) Algorithm-Rules of design algorithm, Pseudo code Convention, Examples on algorithm, structured data types.</p>	

Rules for Conduct of Examinations for Bridge Course in Computer Science

Theory Paper:

Question 1	Objectives Questions with options	20 marks
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Evaluation System:

Sr.No	Exam No.	Name of the Students	Theory	Percentage %	Remarks	Grade
		Maximum Marks	20			
		Minimum Marks	08			
		Obtained Marks				

Slander of Passing: 40%

Grading System:

A Grade	Above 75%
B Grade	60-74%
C Grade	40-59%

H.O.D
Department of Comp. Sc.

Principal
C.K. Thakur College, New Panvel