MMK & SDM MAHILA MAHAVIDYALAYA

KRISHNAMURTHY PURAM, MYSORE

Department of Computer Science

In association with

Veda Softech Pvt Ltd, Mysore

REPORT ON

Two Days Workshop on

Web Development Technologies

2019

DATE: 02- 03.03.2019

TIME: 9:30 AM Onwards

PROGRAM COORDINATOR: Smt. Sukrutha K.S., Head of Department, Dept. of Computer Science

INUGAURATION: Prof. Sainath Malligemadu, Principal

VENUE: Computer Science Laboratory, MMK & SDM MMV, Mysore

TOTAL NO. OF PARTICIPANTS: 57 students of Computer Science

MMK & SDM Mahila Mahavidyalaya
Krishnamurthypuram, Mysore
Vision: Empowerment of Women to Build Enlightened Society

Department of Computer Science
in association with
Vedha Softech India Pvt. Ltd., Mysuru

With the Blessings of
Padmavibhushana Awardee
Dr. D. Veerendra Heggade
President SDME Society®, Ujire

Organizing
Two Day Workshop
on
Web Development Technologies
2nd and 3rd March 2019
Venue: Computer Laboratory

Inaugural Function

Inauguration
By
Prof. Sainath Malligemadu
Principal, MMK & SDM MahilaMaha Vidyalaya, Mysore

Guest of honor
Mrs Rukmini U R
Managing Director, Vedha Softech India Pvt. Ltd., Mysuru

You are cordially invited

Staff & Students

Smt. K S Sukrutha
HOD& Convener

Vedha Softech India Pvt Ltd

"WEB DESIGN AND DEVELOPMENT"

The objective of this workshop is to help trainees understand the real- life web development and become a web developer using latest tools and trending technologies of current and future. The course outline is designed in such a manner that almost no prior knowledge is required to master the technology. Once completed the course successfully, the trainees are going to have their own live websites and clear understanding of how do real time web developers work in MNCs and other software companies.

Technologies and Tools:

The web development course will include following:

- HTML5
- CSS3
- Javascript
- SQL
- Php
- Bootstrap Framework
- Live Project

1. Introduction and interactive session

Learning Objectives – To understand and get familiar with facts and terminologies related to Web development and have glimpse of web technologies being used by top websites in the world.

Topics – What is a Website, What are different types of websites (blog, e-commerce, social media, portals, etc), purpose of making different types of website, understanding the objective of any website, interesting facts and figures related to web development, Prerequisites for Website development, technologies used in creating website (front end/back end/scripting, etc), Hands on exercise on one simple wireframe and writing its code.

Activity: Finding technologies of popular websites.

2. Creating web pages with HTML5

Learning Objectives –How to use all the elements in HTML5 and their features for web page designing.

Topics - Introduction to HTML, Writing HTML code using Header Tags, Paragraphs, Ordered and Unordered lists, Forms, Links, Tables, frames, Images, Text Formatting, Image Maps, etc. Encoding URL, Using HTML5 introduced features, Embedding audio and video in a webpage, drag and drop, etc.

Project/Activity – Creating web page using HTML

3. Styling web pages using CSS3

Learning Objectives - How to style the HTML elements. Also, different ways to write CSS like external, internal, inline.

Topics - Styling of HTML elements-text, links, lists and tables, different ways to write CSS, external, internal, inline. Creating navigation bars, Writing Media Rules, hide visibility of an element, CSS Image Sprites and Gradients, CSS Pseudo Classes and Pseudo Elements, CSS3 Text Effects using different text fonts. Creating 2D and 3D transformations and applying animations, etc.

Project/Activity – Creating web page using HTML5 & CSS3

4. Handling events with JavaScript

Learning Objectives – To understand the basics of JavaScript. At the end, learning how to manipulate DOM elements and use Javascript for Client-side website interactive features.

Topics - Java Script data types, variables, arrays. Creating loops and writing if-else decision-making statements. Defining and calling JavaScript functions on events. Manipulating DOM elements
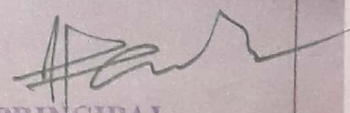
Project/Activity – Creating web page using HTML, CSS & JavaScript

5. Data Base- JSON, MY SQL

Learning Objectives – To understand the Use of Database in web development and have a glimpse of how a dynamic website automatically interact with databases and does CRUDE operations

Topics- Introduction to database, basic data types Introduction to DBMS, Creating first database, DDL, Alter & Drop, Foreign Key & Truncate, DML, SQL Joins, Additional SQL features.

Activity: Using JSON to create a web page with database

Bootstrap 3

Learning Objectives - To get started with one of the topmost CSS and JS framework Twitter Bootstrap 3 which makes the web development fast and easy. Learning on how to include Bootstrap in the project and use different Bootstrap features like fixed drop down menu, carousel, text and image grids.

Topics - Getting started with Twitter Bootstrap 3. Bootstrap features like fixed drop down menu, carousel, text and image grids, custom thumbnails, bootstrap modal. Using Font Awesome Icons, text and image grids, accordions, sign in/signup form and jumbotron.

Activity/Project: Creating a web page with Bootstrap, HTML, CSS, Javascript

7. Hypertext Pre-processor (PHP)

Learning Objectives- To understand and work upon world's most used server side technology and make website on php.

Topics – PHP: Introduction, Basics, Functions/Arrays/Strings, Loops, Database Connection, SELECT Query with PHP , Form, Form Handling, Form Validation, Validations with HTML5/PHP , Sessions, Basic security, API Methods, GET, POST, PUT, DELETE, API Keys, Creating APIs in php, REST API with php and MYSQL, Chrome Advanced REST client extension and similar topics related to scripting.

PHP Framework- Developing web application using any of the latest frameworks of php (CakePHP, Laravel, CodeIgniter, Symfony, Zend, Phalcon etc)

Activity- Lots of hand on exercises on php scripting.

Project- PHP based web development project as mentioned in project section.

8. Elements of a Live Website

Learning Objectives- To understand real time website terminologies and have a glimpse of live web application, domain names and web hosting servers.

Topics – Domain name, DNS, Domain Extensions, TDL, HTTP, HTTPs, FTP, FTP Softwares (filezilla/putty), transferring files from local to remote server, purchasing a domain name, Servers, Bandwidth of a server, Web space, Purchasing a Server, Configuring a Server, Sever Control Panel, C-Panel.
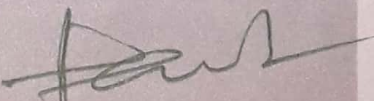
Activity- Installing Filezilla, searching for desired domain name, buying a domain, buying a web server, configuring web server, transferring files from local to remote server.

9. Project

Learning Objectives- To make a live website using all the technologies learned during the course and run it on live servers using real time domain names and servers.

Topics– Conversion of psd template to HTML template

A Certificate of Participation will be awarded at the end of the course.

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Workshop on WEB TECHNOLOGY

Time Table

Resource	Subjects	Date	Time slot	Break time
Rekha.T	CSS	2/03/2019	10.00am to 11.00am 11.15 am to 12.15 pm 12.15 pm to 1.15 pm 2.15 pm to 5.00 pm (Hands-on)	11.00 am to 11.15am 1.15 pm to 2.15 pm
Kruthika SG	BOOTSTRAP	3/03/2019	10.00am to 11.00am 11.15 am to 12.15 pm 12.15 pm to 1.15 pm 2.15 pm to 5.00 pm (Hands-on)	11.00 am to 11.15am 1.15 pm to 2.15 pm

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Workshop on WEB TECHNOLOGY

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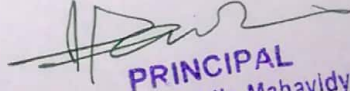| Resource	Subjects	Date	Time slot	Break time
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Department of Computer Science
Report on

Workshop on Web Development Technologies

The Department of Computer Science of Shri DharmasthalaManjunatheshwaraMahilaMaha Vidyalaya , Mysore in association with Veda Softech had organized Two Day Workshop on **Web Development Technologies** for the second year students of BCA on 2nd and 3rd March 2019.

The main objective of the workshop is to impart knowledge on web development tools and to design web pages.

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Prof Sainath Malligemadu, Principal of the College inaugurated the workshop. **Smt. Rukmini U R**, Managing Director, Veda Softech India Pvt. Ltd., Mysore was the guest of honor.

Ms Rekha T and **Mrs. Kruthika S G**, Trainers from Veda Softech India Pvt. Ltd. trained the students on CSS and Bootstrap tools of web technology.

57 II Year BCA students were benefitted. The students were able to build responsive web pages with CSS and bootstrap components after the two day workshop.

Programme Coordinator- Smt. K S Sukrutha, HOD of Computer Science

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