B. Sc. – III [Computer Science] Semester V
Skill Enhancement Course
(Web Page Designing)
SECCOS – 3

Teaching Hours: 40   **Marks: 50**

Course Objectives:
- Create static web sites using HTML5, CSS3, BOOTSTRAP4, JS
- Create Responsive web pages with form validation
- Effective Use of Visual Studio Code editor

Course Outcomes:
After successful completion of this course, students should be able to –
- Design basic programming structures to implement functionality for web page designing.
- Develop static websites.
- Develop responsive websites with Bootstrap.
- Develop websites independently.

UNIT I: Introduction to HTML5

Formatting text by using tags, using lists and backgrounds.
Creating hyperlinks and anchors, Creating tables, creating simple table, specifying the size of the table, specifying the width of the column, merging table cells, using tables for page layout, Formatting tables, applying table borders, applying background and foreground fills, changing cell padding, spacing and alignment, creating user forms creating basic form, using check boxes and radio buttons creating lists, additional input types in HTML5, Incorporating sound and video, Audio and video in HTML5, HTML multimedia basics, embedding video clips, incorporating audio on web page, Image Mapping.

UNIT II: CSS3

Introduction to CSS, how does CSS work? syntax, identification and grouping of elements, selectors, colors, background, fonts, text, links, lists, tables. CSS Box model, Margin, Padding, Border, height and width, floating elements, positioning of elements, align, dropdowns, navigation bar, counters, Image gallery.

UNIT III: Java Script, Bootstrap

Introduction to Client Side Scripting, Introduction to Java Script, JavaScript Types, Variables in JS, Operators in JS, Conditional statements, Java Script Loops, JS Popup Boxes, JS Events, JS Arrays, Working with Arrays, JS Objects, JS Functions, Document and its associated objects, Document, Link, Area, Anchor, Image,

Applet, Layer Events and Event Handlers, Using Java Script in Real-time,
Validation of Forms.
What is Bootstrap?
Basic Bootstrap Pages, Bootstrap Grid System, Grid Classes, and Basic
Structure of a bootstrap Grid, Equal Columns and Unequal Columns.
Typography, Table, Images, Wells, Alerts Button, Button groups, Badges/Labels
Progress Bars, Pagination, pager, List groups, Panels, Drop Down, Collapse,
Tabs/Pills, Navbars

UNIT IV: Development of Website

Website should contain minimum five web pages.
Website may contain Java script for validation, Bootstrap for responsiveness.

Reference Books:
1) Start Here Learn HTML5, Faithe Wempen, Microsoft Publication
2) HTML and CSS Design and Build Websites, John Duckett, Willy Publications
3) JavaScript 2.0: The Complete Reference, Second Edition by Thomas Powell and
   Fritz Schneider
4) Internet & Web Development, Soma Das Gupta, Khanna Publishing House

Online Reference:
W3schools.com