

CAP808:HTML 5

L:0 T:0 P:3 Credits:2

Course Outcomes: Through this course students should be able to

- CO1 :: understand basics about HTML5 and web design
- CO2 :: demonstrate the use of different HTML5 tags in designing of webpages
- CO3 :: explore different components of a webpage
- CO4 :: evaluate lists and forms in a webpage
- CO5 :: compose powerful web applications

List of Practicals / Experiments:

Web page building blocks

- a basic HTML page
- markup with meaning
- elements attributes and values
- a web page text content
- links
- Images
- other non text content
- file names and url

Working with web page files

- planning your site
- creating a new web page
- saving your web page
- specifying a default page or homepage
- editing Web pages
- organizing files
- viewing your page in a browser

Basic HTML structure

- starting your web page
- creating a title
- creating headings
- common page constructs
- understanding HTML5 document outline
- grouping headings
- creating a header
- creating an article
- defining a section
- specifying an aside
- creating a footer

- creating generic containers
- adding the title attribute to elements
- adding comments

Text

- creating spans
- starting a new paragraph
- adding author contact information
- creating a figure
- specifying time
- marking important and emphasized text
- indicating a citation or reference
- quoting text
- highlighting text
- explaining abbreviations
- defining a term
- creating superscripts and subscripts
- noting edits and inaccurate text
- marking up code
- using preformatted text
- specifying fine print
- creating a line break

Images

- about images for the web
- getting images
- choosing an image editor
- saving your images
- inserting images on a page
- offering alternate text
- specifying image size
- scaling images with the browser
- scaling images with an image editor
- adding icons for your web site

Links

- the anatomy of a link
- creating a link to another web page
- creating anchors
- linking to a specific anchor
- creating other kinds of links

Lists

- creating ordered and unordered lists
- choosing your markers
- choosing where to start list numbering

- nested lists
- creating description lists

Forms

- creating forms
- processing forms
- sending form data via email
- organizing the form elements
- creating text boxes
- creating password boxes
- creating email telephone and url boxes
- creating radio buttons
- creating select boxes
- creating checkboxes
- creating text areas
- allowing visitors to upload Files
- creating hidden fields
- creating a submit button
- using an image to submit a form
- disabling form elements

Tables

- structuring tables
- spanning columns and rows

Video and audio

- video file formats
- adding a single video to your web page
- exploring video attributes
- adding controls and autoplay to your video
- looping a video and specifying a poster image
- using video with multiple sources
- adding video with hyperlink fallbacks
- adding audio file formats
- adding a single audio file to your web page
- adding a single audio file with controls to your web page
- exploring audio attributes
- providing multiple audio sources
- embedding flash animation

Text Books:

1. HTML5 WITH CSS by AAMER KHAN, Code Academy

References:

1. HTML 5 BLACK BOOK: COVERS CSS3, JAVASVRIPT, XML, XHTML, AJAX, PHP AND JQUERY by KOSENT LEARNING SOLUTIONS INC., DREAMTECH PRESS
2. PROGRAMMING HTML5 APPLICATIONS by ZACHARY KESSIN, SHROFF PUBLISHERS & DISTRIBUTORS PVT. LTD

References:

3. WEB PROGRAMMING WITH HTML5, JAVASCRIPT AND PHP FOR STUDENTS by HIREN DAND,
SHROFF PUBLISHERS & DISTRIBUTORS PVT. LTD