Website Designing Lectureflow

Module 1) Fundamentals of IT	3

- Careers in Web Technologies and Job Roles
- Difference between Web Designer and Web Developer
- What Is the Facebook Pixel
- How the Website Works
- Client and Server Scripting Languages
- Domains and Hosting
- Types of Websites (Static and Dynamic Websites)
- Web Standards and W3C recommendations
- Responsive Web Designing
- Protocol
- Basics of SEO
- Overview of SDLC
- Git and GITHUB Training
- Web development tools and environments are essential for building, testing, and deploying web applications. Here's an overview of some key tools and environments used in web development:
- Code Editors and Integrated Development Environments (IDEs) - Visual Studio, sublime, atom, jetbrains
- Version Control Systems - Git, Github, bitbucket
- Package Managers - NPM, Yarn, composer
- Task Runners and Build Tools - Grunt, Gulp, Webpack, Parcel
- Frameworks and Libraries - React, angular, vue.js, bootstrap, tailwind
- Development and Testing Servers - Node.js, Apache, Ngnix, Live Server
- Database management systems - MySQL, PostgreSQL, MongoDB, SQLite
- Front End Build Tools - SaSS, LESS, Babel
- Development Environments - XAMPP, MAMP
- Browser Developer Tools - Chrome DevTools, Firefox Developer Tools, Safari Developer Tools
- Collaboration and Communication Tools - trello, slack, Asana
- Continuous Integration and Deployment (CI/CD) Tool - Jenkins, Travis, CirceCI, Github Actionss
- Design and Prototyping Tools - Figma, Adobe XD, Sketch

Module 1) WD - HTML	10

- Student Intro , Career Center Login ,What is Internet, HTTP/HTTPS, WWW, Domain name and Top Domain name
- SEO, What is HTML, What is Text Editor, Web Browser, Downloading Text Editor , HTML Structure, First Program in HTML
- 1) HTML Introduction 2) HTML Getting Started 3) HTML Elements 4) HTML Attributes 5) HTML Basic Tags
- 1) HTML Doctypes 2) HTML Layout 3) HTML Head 4) HTML Meta 5) HTML Scripts

- Practical Examples: 1) Create any simple web page to display your name. 2) Importance of meta tag and Doctypes
- Tags and self Closing Tags, Basic Tag , Attribute and Events, Marquee Tag
- HTML - Meta Tags, HTML - Comments, HTML - Images, HTML - Tables, HTML - Lists, HTML - Text Links, HTML - Image Links
- HTML Headings HTML Paragraphs HTML Links HTML Text Formatting HTML Styles HTML Images
- HTML - Frames, HTML - Iframes, HTML - Blocks, HTML - Backgrounds, HTML - Colors, HTML - Fonts
- Anchor Tag, Img Tag, Image Mapping
- HTML - Fonts, HTML - Forms, HTML - Embed Multimedia ,HTML - Marquees, HTML - Header, HTML - Style Sheet, HTML - Javascript ,HTML - Layouts
- List Tag, Tables, Forms
- HTML - Tags Reference, HTML - Attributes Reference, HTML - Events Reference, HTML - Fonts Reference, HTML - ASCII Codes, ASCII Table, Lookup, HTML - Color Names, HTML - Entities, HTML - Fonts, Ref HTML - Events, Ref MIME Media Types, HTML - URL Encoding Language, ISO Codes HTML - Character Encodings, HTML - Deprecated Tags
- PRactical Examples: 1) Create simple Doc and display your name using different heading tag 2) Create link for open google. 3) Create document using all text formatting tags
- HTML online editor
- HTML Tables HTML Lists HTML Forms HTML Iframes
- Practical Examples: 1) Create simple table 2) Create time table for your school 3) Create table with colspanrowspan example 4) Create invoice using table 5) Create hotel menu. 6) Create index page for your book. 7) Create list with different categories.
- PRactical Examples: Create registration form with all fields and validation

Module 2) WD - CSS and CSS 3	20

- 1) CSS 2) In-line CSS Internal Style External Style Sheet @import Style Sheet 3) CSS Class CSS ID
- What is CSS How to Implement CSS Class and ID Width and Height Css Unit Box Model (Margin,padding,Border) and create basic template design
- Practical example : Create page with difference color text
- CSS Selectors , Pseudo Classes and Elements , Float and Clear and Alignment , Font Styling , Opacity and Visibility , Line Height
- 1) CSS Text 2)CSS Font 3) CSS Background 4) CSS Links 5) CSS Lists 6) CSS Display 7) CSS Visibility
- Creating Header of Website , Outline , Background , Counter increment , Counter reset ,Cursor , Overflow
- PRactical Example : Create layout for your project
- Position , Creating Submenu , Border Radius, Transform , Animation , Font Awesome Icons
- 1) CSS Layout Model 2) CSS Border 3) CSS Margin 4) CSS Padding 5) CSS Outline
- Font Family Through Google Font , import fontface rule ,FlexBox
- 1) CSS Float 2) CSS Align 3) CSS Position 4) CSS Element Size 5) CSS Layer
- Practical Example : Create image gallery

- 1) CSS Pseudo Class Selector 2) CSS Pseudo Element Selector
- CSS Properties 1) Background, 2) border 3) bottom 4) caption-side 5) clear 6) clip 7) color 8) content
- Practical Example: Create Menu with logo at left side and contact info at right side using clear effect
- 1) counter-increment 2) counter-reset 3) cursor 4) direction 5) display 6) empty-cells
- Practical Example: 1) Create submenu list using counter
- 1) float 2) font 3) height 4) left 5) letter-spacing 6) line [height, style, style-7) image, style-position, 8) style-type] 9) margin 10) outline 11) overflow 12) padding
- 1) page-break 2) position 3) quotes 4) right 5) table-layout 6) text 7) top 8) vertical-align 9) visibility 10) white-space 11) width 12) word-spacing 13) z-index
- Practical Example: wireframe layout for your template using div
- Media Query (For Responsive Website) , Creating a Responsive Website
- Validate a Website, Hosting a website with free domain name, Column , Clippath , Gradient Color , Filter, Border Image

Module 3) WD - HTML5	5

- HTML5 Tags, HTML5 Input and Attribute
- Audio and Video, Semantic Element in HTML5
- Canvas, Svg
- Display Grid

Module 3) Introduction to Wordpress	1

- What is Wordpress
- WordPress.org vs. WordPress.com
- Setting up a local development environment

Module 4) Domains, Hostings and Security	2

- Advantages of Wordpress
- Domains and ITS Types
- Domain Registration Providers
- things to Consider Before Buying a Domain Name
- Web hosting and Its Service Providers
- Choosing Hosting And Its Service Providers
- Connecting Domain Name with Web Hosting Using NameServer
- Secure Sockets Layer
- Creating Email Account with Same Domain

Module 5) Wordpress Installation and Theme	4

- Wordpress Free and Paid Themes
- How to search and choose a theme

- Overwiev of Theme Templates
- Installation of Wordpress
- Theme download and Admin Panel Demo
- Upload a theme on website

Module 6) Wordpress Dashboard and Plugins	5

- Understanding Website Sections
- Wordpress Dashboad and Directories
- Understanding the Plugins
- Creating Subdomains

Module 7) Customization of Website	5

- Customization of Web Page
- Slider Editing And Importing
- Wordpress home page
- Creating a Contact Form in Wordpress
- Website Page Setting using Ementor and unyson
- Edit Menu in Wordpress
- Customization of Themes and Widgets
- Creation and Posting of a Blog
- Adding Social Share Buttons
- Adding Live Chat and Calll Now Plugin
- Clearing Plugin in Wordpress
- Creating Website Backups in Wordpress

Module 8) E-commerce Website Creation	4

- Woocommerce for shopping Website
- Customization of Shopping Website
- Adding New Product and Shipping Cost
- WooCOmmerce Plugin and Razorpay integration
- Tas, shipping and email setting
- Generative invoice and process and order

Module 9) Monetization Through Website using Google Adsense	2

- Website Scores
- Creating a Sitemap and Robots.txt
- Google Analytics and Page SPeed Insight
- SEO Plugin
- Understanding Google Adsense

- Google Ads Designing and Tricks to increase earnings
- Adding Google Adsense to website Demo

Module 4) WD - JAVASCRIPT BASIC & DOM	10

- What is Javascript, Creating First Javascript Program, Way to apply Javascript , Event in Javascript , How to select Tag Classes and Id
- Introduction to Javascript
- Features of Javascript
- JavaScript Application
- How to run Javascript
- How to see Trafic in Our Website
- ways to add JS code
- External JS
- Comments in JS
- Variables in JS
- Data Types in JS
- Operators in JS
- Switch and Loops in JS
- Function in JS
- Objects in JS
- BOM
- WIndow Object
- History Object
- Navigator Object
- Screen Object
- •JAVASCRIPT & DOM 1) JS DOM Nodes 2) JS DOM Selectors 3) JS DOM Styling 4) JS DOM Get Set Attributes 5) JS DOM Manipulation 6) JS DOM Navigation
- Form Validation using JS
- EMail Validation in JS
- JS Cookies
- JS Events
- Practicals
- •Practical Example: 1) Create program for input color and output that code 2) Create program for pattern using loop
- •Functions, Alert ,Confirm , Prompt , Addition of Two Number , Hide and Show Password
- •a) JS Arrays b) JS Sorting Arrays c) JS Loops d) JS Functions e) JS Objects
- •How to apply CSS using Javascript, Image Changing
- •Practical Example: 1) Create function Finding the Maximum and Minimum Value in an Array 2) Create pyramid pattern program
- •If Else Statement, Javascript Form Validation

Module 5) WD – Advance CSS/CSS Preprocessors	10

- Sass Variables
- strings · numbers
- colors · booleans
- lists
- nulls Sass Nested Rules
- Sass Importing Files
- Sass Mixins
- Sass @extend Directive
- ?Introduction to Sass: Explaining the basics of Sass, its syntax, and how it enhances traditional CSS.
- Variables and Variable Scope: Discussing the use of variables in Sass and how variable scope works.
- Mixins and @include: Explaining mixins and how they can be used for reusable styles, along with the @include directive.
- Nested Rules: Discussing nested rules in Sass and how they improve code organization and readability.
- Control Directives: Covering Sass control directives such as @if, @for, and @each, and how they can be used for conditional styles and loops.
- ?Functions: Explaining the use of functions in Sass for tasks like color manipulation, math operations, and more.
- Partials and @import: Discussing the use of partials to split Sass code into smaller, modular files, and how to import them using the @import directive.
- Extend/Inheritance: Explaining how to use the @extend directive in Sass for extending styles, and discussing its benefits and potential pitfalls.
- Operators: Covering Sass operators for arithmetic, logical operations, and string manipulation.
- Sass Maps: Introducing Sass maps and how they can be used for managing key-value pairs and organizing data.
- Mixins Libraries: Introducing popular Sass libraries like Bourbon or Compass and discussing their features and benefits
- ?Best Practices: Providing tips and best practices for writing clean, efficient, and maintainable Sass code.
- Less
- Variables
- Mixins
- Nesting
- Operations
- calc() exception
- Escaping
- Functions
- Namespaces and Accessors
- Maps
- Scope
- Comments
- Importing
- Introduction to Less CSS: Explaining the basics of Less CSS, its syntax, and how it extends traditional CSS

- Variables: Discussing the use of variables in Less CSS and how they contribute to code maintainability and reusability.
- Mixins and Functions: Explaining how mixins and functions work in Less CSS, and how they can be used to encapsulate styles and perform operations.
- Nesting: Discussing the nesting feature in Less CSS and its benefits for organizing styles and improving readability.
- Operations and Functions: Covering the various operations and functions available in Less CSS for arithmetic, color manipulation, and more.
- Imports and Partials: Explaining how imports and partials work in Less CSS to split stylesheets into smaller, more manageable files.
- Control Directives: Covering control directives like @if, @for, and @each in Less CSS and how they can be used to create dynamic stylesheets.
- Extend: Discussing the @extend directive in Less CSS and how it allows styles to be inherited from one selector to another.
- ?Nested Rules and Parent Selectors: Explaining nested rules and the use of the & selector in Less CSS for generating complex selectors.
- ?Mixins Libraries: Introducing popular Less CSS libraries like LessHat or Bootstrap Less and discussing their features and benefits.
- ?Best Practices: Providing tips and best practices for writing clean, efficient, and maintainable Less CSS code.
- ?SCSS (Sassy CSS) : - · Introduction to SCSS: Explaining what SCSS is, how it extends CSS, and its benefits. ·
- Variables and Mixins: Discussing the use of variables and mixins in SCSS to improve code reusability and maintainability.
- Nesting: Explaining how nesting works in SCSS and its advantages in organizing styles.
- Partials and Importing: Discussing the use of partials to split SCSS code into smaller files and the process of importing them into a main SCSS file.
- Control Directives: Covering the use of control directives like @if, @for, and @each to create more dynamic and efficient stylesheets.
- Functions: Explaining how functions in SCSS can be used to perform calculations, manipulate colors, and more.
- Inheritance and Extends: Discussing how inheritance can be achieved in SCSS using the @extend directive and its implications.
- Operators: Covering the various operators available in SCSS for performing arithmetic, logical, and other operations. ·
- Mixins Libraries: Introducing popular SCSS libraries like Bourbon or Compass and discussing their features and benefits.
- ?Best Practices: Providing tips and best practices for writing clean, efficient, and maintainable SCSS code.

Module 6) WD - JQuery Basic, Effects & Advanced	6

- What is JQuery , Downloading JQuery File , First Program in JQuery
- Jquery Selectors

- Jquery Display Effeects
- Jquery Fadding Effects
- Jquery Sliding Effects
- Add Elements using jquery
- Get and Set Content and Attributes
- Remove Elements
- Other Jquery HTML Methods - clone, scroll TOP, attr(), prop(),
- Wrap Element using Jquery
- Jquery CSS methods
- JQuery manipulating CSS
- Jquery Dimension Methods
- Jquery Form
- Jquery Mouse events
- Jquery Keyboard Events
- Jquery Form Events
- Jquery Document/Window Events
- Jquery Traversing - Ancestor
- Jquery Traversing - Descendents
- Jquery Traversing - Siblings
- Jquery Traversing - Filtering
- Practicals and assignments

Module 7) WD - Framework	11

- Bootstrap Basic 1) Bootstrap Introduction 2) Bootstrap Getting Started 3) Bootstrap Grid System 4) Bootstrap Fixed Layout 5) Bootstrap Fluid Layout 6) Bootstrap Responsive Layout
- Bootstrap Utilities
- 1) Bootstrap Typography 2) Bootstrap Tables 3) Bootstrap Lists 4) Bootstrap List Groups 5) Bootstrap Forms 6) Bootstrap Custom Forms 7) Bootstrap Input Groups 8) Bootstrap Buttons 9) Bootstrap Button Groups
- Bootstrap with CSS: Grid System
- 1) Bootstrap Images 2) Bootstrap Cards 3) Bootstrap Media Objects 4) Bootstrap Icons 5) Bootstrap Navs 6) Bootstrap Navbar 7) Bootstrap Breadcrumbs 8) Bootstrap Pagination 9) Bootstrap Badges 10) Bootstrap Progress Bars 11) Bootstrap Spinners 12) Bootstrap Jumbotron 13) Bootstrap Helper Classes
- Bootstrap with CSS - typography
- Bootstrap Advanced 1) Bootstrap Modals 2) Bootstrap Dropdowns 3) Bootstrap Tabs 4) Bootstrap Tooltips 5) Bootstrap Popovers 6) Bootstrap Alerts 7) Bootstrap Stateful Buttons 8) Bootstrap Accordion 9) Bootstrap Carousel 10) Bootstrap Typeahead 11) Bootstrap ScrollSpy 12) Bootstrap Toasts
- Bootstrap with CSS: Tables
- Bootstrap Striped Row Table
- Bootstrap Bordered Table
- Bootstrap Hover Row Table

- Bootstrap Condensed Table
- Bootstrap Contextual Classes
- Bootstrap Responsive Table
- Bootstrap with CSS - Forms
- bootstrap 4 Form
- Bootstrap with CSS - Buttons
- Bootstrap with CSS - Images
- Bootstrap helper Classes
- Border Classes
- Bootstrap with CSS - Responsive Utilities
- Bootstrap Layout - Glyphicon
- bootstrap Layout - Dropdowns
- Bootstrap Dropup
- Bootstrap - Button Group
- Bootstrap Layout - Navigation Elements
- Navbar
- Breadcrumb
- pagination
- Input Group
- Labels
- Badges
- Jumbotron
- Page Headers
- Alerts
- Progress Bar
- List Group
- Panels
- Wells
- Introduction - What is Tailwind CSS?, Why use Tailwind CSS? , How to use Tailwind CSS?
- Base Styles preflight
- Typography - font family, size, smoothing, style, weight · letter spacing, line clamp, line height, text align, text color
- Typography · text decoration, color, style, thickness, offset · text transform, overflow, indent, vertical align, word break
- Background · background attachment, clip, color, origin, position, repeat, size, imageBorder · border radius, width, color, style, devide width, color, style, outline color, · style, offset, ring width, color, ring offset width, color
- Spacing · padding, margin
- Sizing · width, min-width, max-width, height, min-height, max-height
- Layout- container, columns, box decoration break, box-sizing, display, floats,clear, object-fit, object-position, overflow, position, top/right/bottom/left,visibility, z-index
- Flexbox - justify-content, justify-items, justify-self, align-content, align-items, alignself, placecontent, place-items, place-self, flex-basis, flex-direction, flexwrap, flex- grow, flex-shrink, order
- Effects- box shadow, color, opacity, mix blend mode , background blend mode

- Filters- blur, brightness, contrast, dropshadow, grayscale, hue rotate, invert,saturate, sepia, backdrop blur, brightness, contrast, grayscale, hue rotate,invert, saturate,sepia
- Tables · border collapse, border spacing, caption side
- Transform · scale, rotate, translate, skew, transform origin
- Transition & Animation · transition property, duration, timing function, delay, animation
- SVG · fill, stroke, stroke width
- Customization · duplication · customizing and configuration file basic · screen width · default color · change generated classes