

DATE		TOPICS	PROJECT / ASSIGNMENT
		HTML & CSS	
Jan 26 2024	Week 1	HTML Basics - Editors, Anatomy of the HTML tag, Attributes, HTML Basic Elements - Headings, Paragraphs, Line breaks, Lists, Images, Links, Commenting. etc	Biography Project
Feb 1 2024		Advanced HTML - Tables, Forms: Inputs, Checkboxes, Dropdown, Radio Button, Textarea, Buttons, Upload File., Iframes: Youtube, Maps, Videos & Audios, Progress Bar, Semantics - (Article, Section, header, footer, nav, Aside), ids & Classes	
Feb 2 2024	Week 2	CSS - Meaning, Syntax Structure. Applying CSS - inline, Internal (embedded) & External (link) • Selectors, • Type selector • Class selector, Id selector, child selector, descendant selector, universal selector	Personal Portfolio Website II, Chess Board, Circle-Rainbow
Feb 8 2024		CSS Rules: Last Rule / Proximity, Specificity, ! important, Pseudo Classes - (:link, : visited :: Hover, :first-child :last-child :nth-child (even/odd)) , Useful Properties: height, width, color, background color, border, Font-family, Font size, Font-style, Font-weight., Relative & Absolute Units (px, %, em, rem),	
Feb 9 2024	Week 3	CSS II - Box model, Margin, Border, Padding. Position: Relative, Absolute, Fixed, Sticky. Z-index, Float, Clear,	Bank Logos, Cross Boxes, Sign Up Page, Personal Portfolio Website III, Blog Website, NFT Card
Feb 15 2024		CSS LayOut II-Flex - (Flex container, direction, wrap, flow, justify-content, align-items, align-content, [order, grow, shrink, basis, flex, align-Self]). Grid	
Feb 16 2024	Week 4	CSS LayOut II-Flex - (Flex container, direction, wrap, flow, justify-content, align-items, align-content, [order, grow, shrink, basis, flex, align-Self]). Grid. CONTD	Social Media Website
Feb 22 2024		CSS Responsiveness , • Extras - Transform / Transition / Animation, Box-Shadow, Overlay , Z-Index, Menu DropDowns, Background, Opacity), * Styling Tables & Forms, Git / GitHub	
Feb 23 2024	Week 5	CSS Responsiveness, • Extras - Transform / Transition / Animation, Box-Shadow, Overlay , Z-Index, Menu DropDowns, Background, Opacity), * Styling Tables & Forms, Git / GitHub CONTD	
Feb 29 2024		EXAMINATION	
		JavaScript	
Mar 1 2024	Week 1	A. Introduction to JavaScript - Linking JavaScript File, Alert, Prompt, Values & Variables, Data Types, Let, Const & Var, B. Basic Operators, Strings & Template Literals, Type Conversion & Coersion, Truthy & Falsy Values, Equality Operators, Boolean Logic, Logical Operators,	
Mar 7 2024		Switch Statement, Statements and expressions, The Conditional / Ternary operator. Functions, Function Declarations vs. Expressions, Arrow Functions, Functions Calling Other Functions	
Mar 8 2024	Week 2	Introduction to Arrays, Basic Array Operations (Methods) Introduction to Objects, Dot vs. Bracket Notation, Object Methods.	
Mar 14 2024		The for Loop, Looping Arrays, Breaking and Continuing, Looping Backwards and Loops in Loops, The while Loop, For Each Loop	
Mar 15 2024	Week 3	The this Keyword, Regular Functions vs. Arrow Functions, Primitives vs. Objects (Primitive vs. Reference Types) First, Class and Higher-Order Functions,	
Mar 21 2024		Functions Accepting Callback Functions, Functions Returning Functions, The call and apply Methods, The bind Method, Immediately Invoked Function Expressions (IIFE), Closures.	
Mar 22 2024	Week 4	Numbers, Dates, Intl and Timers Converting and Checking Numbers, Math and Rounding, The Remainder Operator, Numeric Separators, Working with BigInt, Creating Dates, Operations With Dates, Internationalizing Dates (Intl), Internationalizing Numbers (Intl), Timers: setTimeout and setInterval	
Mar 28 2024		Data Structures, Modern Operators and Strings, Destructuring Arrays, Destructuring Objects, The Spread Operator (...), Rest Pattern and Parameters, Short Circuiting (&& and), The Nullish Coalescing Operator (??)	
Mar 29 2024		TEST	
Apr 4 2024	Week 5	Logical Assignment Operators, Looping Arrays: The for-of Loop, Enhanced Object Literals, Optional Chaining (?.), Looping Objects: Object Keys, Values, and Entries, Sets, Maps: Fundamentals, Maps: Iteration.	
Apr 5 2024		DOM and Events Fundamentals What's the DOM and DOM Manipulation, Selecting and Manipulating Elements, Handling Click Events, Manipulating CSS Styles, Working With Classes, Handling an "Esc" Keypress Event.	
Apr 11 2024	Week 6	DOM and Events Fundamentals ... CONTD	

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Apr 12 2024	Week 6	Advanced DOM and Events, Selecting, Creating, and Deleting Elements, Styles, Attributes and Classes, Implementing Smooth Scrolling, Types of Events and Event Handlers, Event Propagation: Bubbling and Capturing, Event Delegation: Implementing Page Navigation, DOM Traversing, Passing Arguments to Event Handlers, The Intersection Observer API, Lifecycle DOM Events,	
Apr 18 2024	Week 7	Advanced DOM and Events ...CONTD	
Apr 19 2024		A. BOOTSTRAP I - Overview, Bootstrap Containers, Grid System, Responsive Layout, Typography, Tables, Lists, Forms, Input Groups, Buttons, Images, Media Objects, icons, navBar, Badges, Jumbotron B. BOOTSTRAP II - Modals, Dropdowns, Tabs, ToolTips, PopOvers, Alerts, Stateful Buttons, Accordion, Carousel, Typeahead, Toasts	
Apr 25 2024	Week 8	Deployment , UI / UX Basics , Design Doc, Flow Chart, Git & GitHub	
Apr 26 2024		EXAMINATION	
ONE WEEK BREAK			
Backend - Node JS			
May 9 2024	Week 1	Introduction to Back-End - Request-Response Model / Client Server Architecture. Installation, REPL / CLI. Global Variables - (__dirname , __filename, require, Module, Process, Console, setInterval). Thread, The Event Loop. & The Thread Pool. Module System - Importing, Exporting & Types. Built in / Core Modules - (FS). Blocking & Non-Blocking. File System - Synchronous. File System - Asynchronous.	
May 10 2024		Built in / Core Modules II - (HTTP). Creating A Web Server. Routing. Local Modules. NPM & 3rd Party Modules. Node_Modules, Package.JSON & PackageLock.JSON. Packages - Types of Packages & Installs.	
May 16 2024	Week 2	Intro To Express. Express Web Server. HTTP Methods. GET requests. Routing in Express. POST Requests.	
May 17 2024		Dynamic Web Pages. URL Parameters. Templating - Regular Templating. Template Engines / Server Side Rendering (HandleBars / EJS / Mustache). Partial. Passing Variables. Helper Functions: if / else, each. Using Multiple Layouts	
May 23 2024	Week 3	Dynamic Web Pages ...CONTD	
May 24 2024		Static Rendering. ***** Corporate Website Project *****	
May 30 2024	Week 4	Chaining Routes MiddleWare - local & 3rd Party Routers FileStructure / MVC Architecture & Refactoring Environment Variables	
May 31 2024		MongoDB - intro & installation. CRUD in MongoDB. MongoDB Compass. MonogoDB Atlas.	
Jun 6 2024	Week 5	Mongoose. Schemas & Models. CRUD in Mongoose. ***** T O - D O - L I S T P R O J E C T *****	
Jun 7 2024		***** T O - D O - L I S T P R O J E C T ***** CONTD	
Jun 13 2024	Week 6	Data Modeling & Advanced Mongoose: Advanced Schemas (required, maxLength / minLength, lowercase, unique, default, enum, validate). Mongoose Hooks, Methods & Statics. Useful methods : limit(), sort(), populate(), countDocuments(), skip(), select() Advanced Features I : Uploading Files ***** B L O G P R O J E C T ***** / ***** C L A S S I F I E D S P R O J E C T *****	
Jun 14 2024		***** B L O G P R O J E C T ***** / ***** C L A S S I F I E D S P R O J E C T ***** CONTD	
Jun 20 2024	Week 7	Authentication, Authorization & Security. Advanced Features II : Sending Emails & Text Messages. Error Handling & Debugging - Try / Catch / finally / throw, Custom Error Handler Function + Mongoose Validation , .then() .catch(), NodeJSDebugger. Pagination.	
Jun 21 2024		Authentication ...CONTD	
Jun 27 2024		Advanced Features III : Payment Integration. API & RESTful API Design. PUT / PATCH requests. DELETE requests.	
Jun 28 2024		Git & Deployment. Writing API Documentation. Recap. ***** FINAL PROJECT ***** (INVOICE / E-Commerce / Social Network / Video Streaming).	

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Jul 4 2024	Week 9	**** FINAL PROJECT **** CONTD	
Jul 5 2024		EXAMINATION	
React JS			
Jul 11 2024	Week 1	A. REACT JS BASIC FUNDAMENTALS - Let, Const Var in Javascript, Arrow Function of Javascript., This Keyword of Javascript, Classes, Object in Javascript B. Installations. C. Project Setup, Project Structure and First Code 7. Babel, Webpack	
Jul 12 2024		Components, Functional Components, Class Components	
Jul 18 2024	Week 2	JSX, Props, State, Event Handler with Methods, State Manipulating	
Jul 19 2024		React DOM, useState Hook, Two Way Data Binding, onChange, Stylesheet & Inline Style in Component, Single Input, Another Way Onchange, OnSubmit	
Jul 25 2024	Week 3	Multiple Input, Set Data to State in One Line, Form Validation, Error Showing, Textarea, Select Option, Lists, JSON Array List, Use Bootstrap	
Jul 26 2024		Test	
Aug 1 2024	Week 4	React Bootstrap, Routing, React Router DOM, Router Link Load Component, Link Load Component	
Aug 2 2024		Axios, Lifecycle Methods, Fetch Data From API, HTTP Request	
Aug 8 2024	Week 5	Form Component, HTTP Post Data, ActiveLink, React Hooks, Class Component to Functional Component, Functional Component to Class Component	
Aug 9 2024		CONVERT HTML TO REACT JS & COMPLETE REACT PROJECT and DEPLOY TO SERVER	
Aug 15 2024		Examination	