

CLASS NO	DATE	TOPICS	Projects / Assignments	Week
CLASS 1		Introduction to Back-End - Request-Response Model / Client Server Architecture, REPL / CLI	Biography Project	WEEK 1
CLASS 2		Introduction to Node (What is Node ? Browser VS Node)	Personal Portfolio Website I	
CLASS 3		Installation	Personal Portfolio Website II, Chess Board, Circle-Rainbow	
CLASS 4		Node Basics - Primitive Types, Loose typing, Object Literal, Functions, Buffer, Process Object, local scope, Global Scope	Bank Logos, Cross Boxes, Sign Up Page, Personal Portfolio Website III , Blog Website, NFT Card	WEEK 2
CLASS 5		Thread & The Thread Pool.	Social Media Website I	
CLASS 6		The Event Loop.		
CLASS 7		Global Variables - (__dirname, __filename, require, module, process, console, setInterval, setTimeout)	Calculator	WEEK 3
CLASS 8		Debugging - Core Debugger, Node Inspector	School Website (Fox)	
CLASS 9		Events & Event Driven Architecture (Event Emitter) * * * *		
CLASS 10		Streams. * * * *		WEEK 4
CLASS 11		Module System.		
CLASS 12		Built in / Core Modules - (OS, path, fs, Http, url, query string, util)		
CLASS 13		Blocking & Non-Blocking Nature of Node JS.		WEEK 5
CLASS 14		File System - Synchronous.	Count Down Timer	
CLASS 15		File System - Asynchronous.	Sticky Event menu change color on scroll + fixed, Lazy loading images, skeleton loading, drop down menu, Skew / curved divs, slider, Modal Box, Slider	
CLASS 16		Creating A Web Server.		WEEK 6
CLASS 17		Routing.		
CLASS 18		HTML Templating - Creating & Replacing.		
		Local Modules.		
		NPM & 3rd Party Modules.		
		Packages - Types of Packages & Installs.		
		Package.json		
		Intro To Express.		
		Express Web Server - GET, POST, PUT, DELETE, ALL).		
		PostMan.		
		Routing in Express.		
		API & RESTful API Design. (REST- Representational State Transfer) (Separation, Resource based URLs, http methods / Verbs, Data as JSON, Stateless). * * * *		
		Https Methods VS CRUD.		
		GET requests.		
		POST requests.		
		URL Parameters.		
		PATCH requests.		
		DELETE requests.		
		Chaining Routes.		
		Creating Local MiddleWare.		
		3rd Party Middleware.		
		Routers.		
		File Structure.		
		Chaining Middleware.		

		Static Rendering & Template Engines		
		Environment Variables - Dev & Prod.		
		MongoDB.		
		Create in MongoDB.		
		Read in MongoDB.		
		Update in MongoDB.		
		Delete in MongoDB.		
		MongoDB Compass.		
		MonogoDB Atlas.		
		Mongoose.		
		Models.		
		MVC Architecture.		
		Application Logic VS Business Logic.		
		Authorization, Authentication & Security.		
		Server Side Rendering / Templating (EJS / HandleBars / Mustache).		
		Advanced Features : Payments, Sending Emails, Uploading Files, Git & Deployment.		