Lectures	Curriculum	Description	Resource
Lecture 1	Introduction to Backend	Explanation of FSD Architecture Setup of development env.	
Lecture 2	Node JS	HTTP Module, Server using Http	
Lecture 3	Express JS	Introduction to Exress.js Sever using express, GET/POST Request Named and Default export in Backend	
Lecture 4	Middlewares	Middlewares Intro, implement examples	
Lecture 5	Authentiaction- Bcrypt	Authentication and Authorization Intro, Bcrypt Intro, installation	
	Assignment	**Encryption using Comparison using bcrypt, Basic Login-Reg Implementation**	
Lecture 6	Authorization- JWT n Session Cookies	JWT Tokens and Session Cookies Intro, generate Tokens	
Lecture 7	JWT Tokens	Generate and verify tokens, grant access to pages once token is verified	
Lecture 8	Tokens and Refresh Token	Invalidating Tokens, Refresh Tokens	
Lecture 9	Database Fundamentals	SQL vs NoSQL	
Lecture 10	Mongo DB	MongoDB Intro (Installation, all basic methods for CRUD)	
Lecture 11	Mongo DB	Practice Mongo Queries on powershell	
Lecture 12	BED - DB Integration	Integrate with Mongoose, Schema and Models	
	Assignment	**Build basic blog Application to perform CRUD Operations**	
Lecture 13	WebSockets	Real-time applications with WebSockets	
Lecture 14	Multer	File uploads with Multer	
	Assignment	**Build a Form to allow user to upload their profile picture and resume**	
Lecture 15	Node JS	Implement pagination in the backend	
Lecture 16	Integration	FED + BED Integration	

	Assignment	**In E-commerce Website, add functionality to register the users and store in DB, make an admin to remove and add more users to the registered users list, Products in the cart after checkout, all products..etc**
Lecture 17	**Node JS Events**	Events Module, The EventEmitter Object
Lecture 18	**Socket IO**	Chat App Introduction, Socket IO Understanding Instaling libraries
Lecture 19	**Chat- Application using socket IO**	Emitting messages functionality, defining middlewares to get the signal from within of the server
Lecture 20	**Chat- Application using socket IO**	Receiving messages functionality, defining middlewares to get the signal from client
	Assignment	**Build a realtime chat application to talk to a friend**
Lecture 21	**Node JS- File System**	Understanding FS Module, Read Files Methods
Lecture 22	**Node JS- File System**	Methods to create a file
Lecture 23	**Node JS- File System**	Updating FS Methods
Lecture 24	**Node JS- File System**	Ways to Delete a File using FS, Renaming the files
	Assignment	**Implement FS module to generate a file while working on a certain project**
Lecture 25	**Node JS- Email**	The Nodemailer Module, Send an Email, Multiple Receivers
Lecture 26	**Final Project work**	The Nodemailer Module, Send an Email, Multiple Receivers
Lecture 27 - 32	**Final Project work**	Work on a fullstack project based on student's personal idea