Course Design Document



Course Code	
Course Name	Introduction to Node.js

Duration (in days)	2	Proficiency Level	Front End Development
Pre-requisites	Javascript	Target Audience	Campus Hires

Learning Outcome

At the end of the program, participants will be able to learn:

- Learn the need for Node.js
- Implement features of ES 6
- Understand the concepts of packages, Modules
- Design Modular Programming in Node.js
- Implement HTTP programs in Node.js

Day-wise Session Plan

Day	Unit	Objective(s)	Hours
1	Introduction	 What is NodeJS NodeJS Architecture LibUV EventLoop V8 Engine Need for NodeJS Understand the significance of package. Json Downloading packages using NPM command Global vs. local package installation 	2
1	ES6 features	 ES 6 features Arrow expressions Object literals Destructuring Closures Named imports and default imports Async Await The require keyword 	3
1,2	Modules	 Modularization Global Objects and Core Modules Built-in Modules The CommonJS and RequireJS specifications Defining modules with exports Modules are singletons Creating a package Module scope and construction Module caching Global Modules Core Modules 	6 (3+3)
2	Exception handling	Error handling using try catch Error Object	2

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		Custom exception handlers	
		Global Exception Handler	
2	НТТР	• The HTTP protocol	
		Building an HTTP server	
		Rendering a response	3
		Processing query strings	
		 Using Representational State Transfer (REST) 	