

Course Code	
Course Name	Introduction to Express.js

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

## Learning Outcome

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

- What is Express.JS
- Programming Express.js
- Using Middlewares
- Routing in Express
- Working with Request and Response objects

## Day-wise Session Plan

Day	Unit	Objective(s)	Hours
1	Environment Setup	<ul style="list-style-type: none"> <li>• Install Node.js</li> <li>• Express.js packages</li> <li>• Express generator tool</li> </ul>	1
1	Before Express	<ul style="list-style-type: none"> <li>• Pre-Express</li> <li>• How the Internet Works - TCP and UDP</li> <li>• What is an HTTP request and how does it work?</li> </ul>	1
1,2	Express Introduction	<ul style="list-style-type: none"> <li>• What is Express and why should I care?</li> <li>• Enter Express the basics</li> <li>• Basic Routing in Express</li> <li>• Serving Static Files in Express</li> </ul>	6 (2+4)
2	Middleware and Rendering	<ul style="list-style-type: none"> <li>• Middleware</li> <li>• Putting on your Express helmet, and other awesome Express middleware</li> <li>• Responding with JSON</li> <li>• Wiring up Express with a view engine</li> <li>• Rendering in Express</li> <li>• Handlebars</li> <li>• Pug/Jade</li> </ul>	5
2	Routing	<ul style="list-style-type: none"> <li>• Getting data from the request object - forms and cookies</li> <li>• Getting data from the query string</li> <li>• Getting data from params (URL wildcards) - reqparams and reqparam()</li> <li>• Sending files, and headers already sent!</li> <li>• The Router</li> </ul>	3