

# NodeJs - Syllabus

| Sl. no | Topic                                    | Hrs |
|--------|--|-----|
| 1      | <b>NodeJs</b>                            |     |
|        |  |     |
|        | <b>Introduction to NodeJs</b>            |     |
|        | What is NodeJs? Advantages of NodeJs     |     |
|        | Traditional Web Server Model             |     |
|        | NodeJs Process Model                     |     |
|        |  |     |
|        | <b>Setup Dev., Environment</b>           |     |
|        | Install NodeJs on Windows, Mac and Linux |     |
|        | Working with REPL                        |     |
|        | NodeJs Console                           |     |
|        |  |     |
|        | <b>NodeJs Modules</b>                    |     |
|        | Functions                                |     |
|        | Buffer                                   |     |
|        | Modules                                  |     |
|        | Module Types                             |     |
|        | Core Modules                             |     |
|        | Local Modules                            |     |
|        | Module.exports                           |     |
|        |  |     |
|        | <b>Node Package Manager</b>              |     |
|        | What is NPM?                             |     |
|        | Installing Packages Locally              |     |

|  |   |  |
|--|---|--|
|  | Adding Dependency in package.json             |  |
|  | Installing packages globally                  |  |
|  | Updating packages                             |  |
|  |   |  |
|  | <b>Creating Web Server</b>                    |  |
|  | Creating Web Server                           |  |
|  | Handling Http Requests                        |  |
|  | Sending Requests                              |  |
|  |   |  |
|  | <b>File System</b>                            |  |
|  | Reading a File Asynchronously / Synchronously |  |
|  | Writing a File Asynchronously / Synchronously |  |
|  | Opening a File                                |  |
|  | Deleting a File                               |  |
|  | IO Operations                                 |  |
|  |   |  |
|  | <b>Debugging NodeJs Application</b>           |  |
|  | Core NodeJs Debugger                          |  |
|  | Debugging with Visual Studio Code             |  |
|  |   |  |
|  | <b>Events</b>                                 |  |
|  | EventEmitter Class                            |  |
|  | Returning EventEmitter                        |  |
|  | Inhering Events                               |  |
|  |   |  |