

VERSION

28

CRASH COURSE

SR. CODE

EAPL/CRASH/CRTC07

COURSE CODE

EACNJ

SUB CATEGORY

SOFTWARE DEVELOPMENT


TOTAL DURATION
45
HOURS


THEORY TAKEN
10
HOURS


PRACTICAL TAKEN
35
HOURS

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CORE NODEJS
COURSE

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CORE NODEJS
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COURSE DESCRIPTION



This Core Node.js course provides a comprehensive understanding of Node.js fundamentals, covering topics such as asynchronous programming, event-driven architecture, and server-side development.

COURSE GOALS



By the end of the course, You will proficiently develop scalable, high-performance applications using Node.js. They will gain hands-on experience in building real-world applications, mastering concepts like RESTful APIs, authentication, and database integration.

FUTURE SCOPE



Graduates will be equipped for roles as Node.js developers, backend engineers, or full-stack developers. They will possess the skills to adapt to emerging trends and technologies in the Node.js ecosystem, ensuring their relevance and competitiveness in the ever-evolving tech industry.

01

CHAPTER

INTRODUCING NODE.JS 14

- a. Installing Node.js 14 with npm
- b. Accessing the Node.js API documentation
- c. Adopting new JavaScript syntax in Node.js 14



30
MINS



1.5
HRS

02

CHAPTER

HANDLING I/O

- a. Technical requirements Handling standard I/O
- b. Managing files with fs module
- c. Inspecting file metadata
- d. Watching for file updates
- e. Creating TCP server and client
- f. Communication



2.5
HRS



05
HRS

03

CHAPTER

STREAMS, STREAMS, STREAMS

- a. Creating streams in Node.js
- b. Interacting with paused streams
- c. Piping streams
- d. Transforming data with transform streams
- e. Building stream pipelines



2.5
HRS



4.5
HRS

04

CHAPTER

USING WEB PROTOCOLS

- Using http module to make HTTP requests
- Handling HTTP POST requests
- Using formidable to handle file uploads
- Building an HTTP server to accept GET requests
- Using ws to create a WebSocket server
- Sending an automated email using your own SMTP server



03
HRS



5.5
HRS

05

CHAPTER

DEVELOPING NODE.JS MODULES

- Consuming Node.js modules
- Setting up your own module
- Implementing your module
- Preparing and publishing your module to npm
- Using ECMAScript modules



2.5
HRS



3.5
HRS

06

CHAPTER

EXPLORING NODE.JS WEB FRAMEWORKS

- Building web applications with Express.js



1.5
HRS



06
HRS

07

CHAPTER

WORKING WITH DATABASES

- a. Connecting and persisting to a MySQL database
- b. Connecting and persisting to MongoDB



2.5
HRS



04
HRS

Placement Assistance

100%

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Practical Sessions

90%

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65%

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