



## **INFORMATION BOOKLET**

**Dursikshya Certified Full Stack  
Product Engineer using MERN**

# INTRODUCTION

Become an Industry-Ready Dursikshya Certified Full Stack Product Engineer who can take up Product Development and Digital Transformation projects.

## PROGRAM OVERVIEW

This outcome-driven program will help you acquire skills to combine programming languages, technology tools, product engineering approach, Test Automation and DevOps to become a Full Stack Product Engineer who can create, deploy, integrate, optimize, and automate end-to-end Web applications.

## PROGRAM ADVANTAGE

This MERN stack developer program provides extensive training in front-end, middleware, and back-end software development technologies, including testing and quality assurance. Phase-end and capstone projects are based on real business scenarios.

## YOUR PATH TO A SUCCESSFUL CAREER IN TECHNOLOGY

The Full Stack Product Engineering Programme delivered via virtual live classes is specifically designed with a methodology that accelerates learning and hones learners into becoming Day 1 project-ready Full Stack Product Engineers with deep skills. The second phase of the Programme (Enterprise Layer) involves releasing and demonstrating a non-trivial product solving a real-world problem.

### KEY FEATURES

- ✔ Comprehensive Blended Learning program
- ✔ 160 hours of in-depth training
- ✔ 100% Placement support
- ✔ Choose from 4 industry-aligned capstone projects
- ✔ Expert Instructors

## WITH THIS PROGRAM, YOU WILL:

- ✔ Learn core computer science concepts from leading industry experts with content structured to ensure industry relevance
- ✔ Build an end-to-end application with exciting features and test it
- ✔ Earn an industry-recognized course completion certificate

# LEARNING PATH

## Part 1: Foundation (Weeks 1-3)

### Pre-Programming Foundation

- ✓ Computer Science Fundamentals
- ✓ Problem Solving
- ✓ Programming Logic & techniques

### Programming in JavaScript

- ✓ Basic JavaScript programming
- ✓ Modern JavaScript i.e., ECMA Script
- ✓ Applying Algorithms
- ✓ Object Oriented JavaScript
- ✓ Async & Await in ES7

## Part 2: Enterprise Layer (Weeks 4-11)

- ✓ Build responsive web pages using HTML5, CSS3 & Bootstrap
- ✓ Interactive web pages using modern JavaScript
- ✓ Unit Testing using Mocha & Chai
- ✓ SPA Using React and Next JS
- ✓ Create and Consume RESTful APIs
- ✓ Working with NOSQL
- ✓ Implement the concept and build ecommerce project using ExpressJS & React JS

## Part 3: Product Development (Weeks 12-16)

- ✓ Build, test, package, and deploy a full stack version
- ✓ Cloud Deployment
- ✓ Formal demonstration for each team

## HIGHLIGHTS

### Top Skills You Will Learn

Combine programming languages, tools and engineering practices to build, test, integrate, package, deploy, and release non-trivial Web apps

### Job Opportunities

Product Engineer, Full Stack Developer, Software Engineer, Software Developer, Back-end Developer, React Developer, Node JS Developer

### Who Is This Programme For?

Engineering Students & Graduates, Working IT Professionals.

### Minimum Eligibility

BE/BCA/BSC-CSIT/BIM/BCS

## OUR PEDAGOGY

LEARN



PRACTICE



APPLY



REVIEW



REFACTOR

### Mastery Learning

Achieve mastery with our individualized and group-based learning pedagogy

### Outcome Oriented

Become day 1 project ready

### Practitioner Designed

Get your design and code reviewed by mentors to refactor

### Experiential Apprenticeship

Go through hands-on, experiential learning with targeted intervention

### Integrated Problem Solving

Practice tough, real-world problem-solving exercise for deep skilling

### Product Release

Build, test, integrated, package, deploy, and release modern Web apps

## Tools Covered



We, Dursikshya Education Network Pvt. Ltd. were established to provide world-class IT Education and to generate global talent in Information Technology. Our aim is to create industry-ready leaders who will be able to access opportunities not only in Nepal but globally, with NCC Education qualifications recognized worldwide. We are an accredited partner of the NCC Education and here to induce the transformation to the approach of education.

We prioritize developing minds that can think and not just store information. We believe that every individual has the potential to achieve something remarkable. To reach the top, one needs to thrive in an environment that guarantees quality education. Through this platform, we will provide that thriving-oriented environment.



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