



Express Diploma in Software Engineering



About this Course

You will learn front-end and back-end Java skills with this Full Stack Java Developer curriculum.

as a full stack software engineer, you may advance your career by learning new technologies. You will learn both fundamental and sophisticated web development techniques in this course. You will get practical knowledge of important concepts including Angular, Spring Boot, Hibernate, Servlets, JSPs, MVC, web services, and others. You'll be taught how to utilize jQuery, JavaScript,

and Node.js to create dynamic, interactive websites, develop APIs, create web apps using Java, use DevOps to test and publish code, use MongoDB to store data, and do much more. As a full stack developer, this course will help you progress your career and teach you some of the most in-demand skills in the field.

Key Feature of the Program



Software Engineering
Certificate from Dursikshya



Capstone project from 5 domains
and 15+ hands-on course end proj-
ects



Dursikshya Associate Alumni
Status



Assist to get the certificate from
SQA & EQF etc..



Live classes delivered by
Dursikshya faculty



Dursikshya's JobAssist helps
you get noticed by top hiring
companies

About Dursikshya

Dursikshya has taught and certified thousands of students in different soft skills, IT training sectors, and credentials during the past few years. DURSIKSHYA has been distributing its specially crafted programs in accordance with regional need. DURSIKSHYA reached a significant milestone when the Scottish Qualifications Authority (SQA), Scotland, validated and recognized our trainings as well as our entire processes. Because of this permission, the DURSIKSHYA developed and owned programs continue to be DURSIKSHYA's property, but SQA evaluates their quality. The first institution from Nepal to have SQA approval and be benchmarked against the Scottish Credit and Qualifications Framework (SCQF) and European Qualifications Framework is DURSIKSHYA.



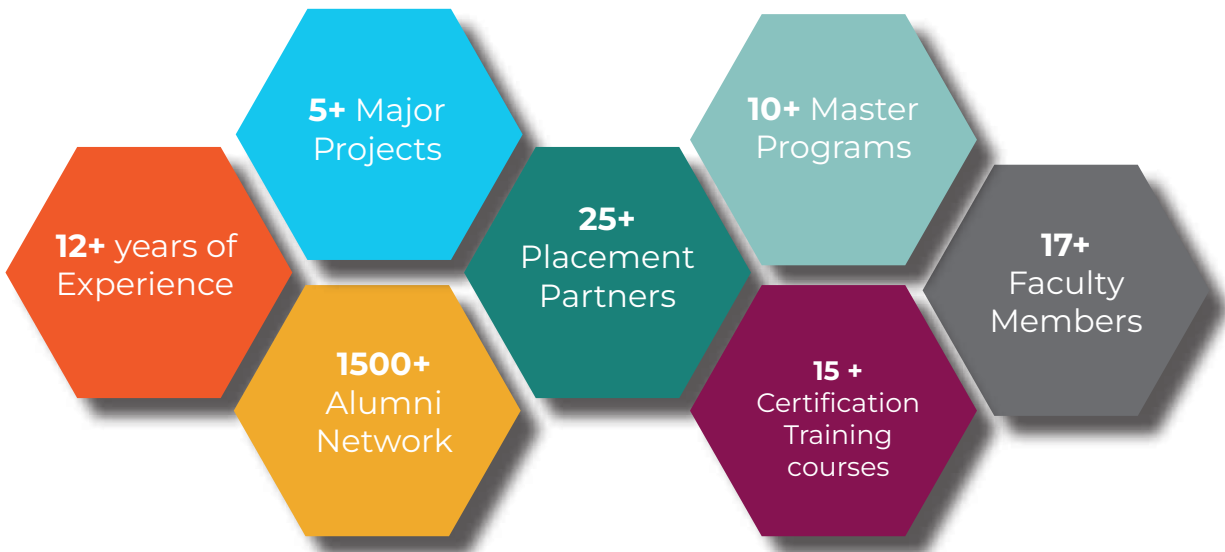
Our Mission

Our mission is to close the skill gap by empowering human capital through industry-accredited, nationally, and internationally recognized courses. Professionals benefit from our top trainers, current and on-demand content, approved body certification, localized delivery, and a solid technological platform.



Our Vision

To be the most trusted Learning and Development partner for professionals all over the world, and to be a recognized market leader for high-end and new technologies, processes, and products.



Program Eligibility Criteria and Application Process

Those who are interested in enrolling in the Professional Certificate in AI & Machine Learning must submit an admissions application.

Eligibility requirements

Candidates for this program in digital marketing must meet at least one of the following requirements:

At Least 2 years of work
experience

A bachelor's degree in any
discipline

Digital marketing
background is desirable
but not required

Program Detail

Program Start Date
Please visit website
for more details

Duration
6 month

Application Process

The application process consists of three simple steps.



1 Submit an Application

Fill out the application and include a succinct purpose statement. The latter explains to our admissions counselors why you are qualified for and interested in the program.

2 Application Review

Your application and statement of purpose will be examined by a group of admissions counselors to assess your candidacy for admission.

3 Admission

Candidates that meet the requirements will be given an admissions offer. By paying the program cost, you can accept this offer.

Talk to an Admissions Counselor

Our staff of committed admissions counselors is here to assist you with the application process and any relevant issues.

They can be used to:

- ✓ Answer any inquiries you have about the application.
- ✓ If necessary, provide information about financial help.
- ✓ Answering your queries will aid in improving your understanding of the application.

Learning Path

- 1** Using Java, implement OOPS with data structures and beyond
- 2** Become an authority in back-end software development.
- 3** DevOps-style framework implementation
- 4** Create a Web App Using the Front-end Stack

1

Using Java, implement OOPS with data structures and beyond

With this first stage of our Full Stack Java Developer track, refresh your understanding of key concepts in software development. Learn the fundamentals of Java and Data Structures to apply object-oriented programming principles, and become familiar with the Agile and Scrum project management approaches to deliver projects on time. Learn how to use Maven and GIT to handle project dependencies and version control systems, respectively.

Primary Learning Goals

- ✓ Recognize the fundamental ideas behind Agile and Scrum.
- ✓ Learn about GitHub, Git, and Git Rebase.
- ✓ Discover the fundamentals of Java, including its use of methods, constructors, strings, inheritance, multithreading, and arrays.

Skills and tools covered

- ✓ Agile and Scrum
- ✓ Java
- ✓ Git
- ✓ Maven



Become an authority in back-end software development.

Learn about SQL, Java servlets, and ORM relational databases using Hibernate to become familiar with back-end development tools. Learn how to use RESTful web services and connect databases using JDBC.

Primary Learning Goals

- ✓ Know the fundamentals of SQL, especially DDL and DML, and Servlets.
- ✓ Learn about JDBC, JSP, REST, and Hibernate in general.

Skills and tools covered

- ✓ Servlets
- ✓ SQL
- ✓ Hibernate
- ✓ REST
- ✓ JDBC

3 DevOps-style framework implementation

Build 3-tier apps with extensive front-end capabilities utilizing the Spring framework, Angular, JUnit5, and SoapUI, and master UI skills with sophisticated HTML and CSS. You may install continuous integration and automation during this phase using a typical DevOps tool: Jenkins

Primary Learning Goals

- ✓ Recognize the fundamentals of Spring, especially its framework architecture.
- ✓ Using Spring Boot, handle errors
- ✓ Construct RESTful web services
- ✓ Understand the JUnit 5 foundation and architecture, as well as the functionalities of SoapUI.
- ✓ Continuously integrate and automate with Jenkins Pipelines

Skills and tools covered

- ✓ Spring
- ✓ RabbitMQ
- ✓ Apache Kafka
- ✓ JUnit 5
- ✓ SoapUI
- ✓ CI/CD
- ✓ Jenkins



Create a Web App Using the Front-end Stack

Utilize the front-end stack technologies, including HTML, CSS, JavaScript, and Angular, to create practical websites and applications. Utilize MongoDB to manage your apps and handle a variety of data kinds.

Primary Learning Goals

- ✓ Know the fundamentals of Angular, Javascript, Typescript, HTML, CSS, and MongoDB.
- ✓ Test your angular application, configure Jasmine, and test your source codes.

Skills and tools covered

- ✓ HTML and CSS
- ✓ Javascript
- ✓ TypeScript
- ✓ Angular
- ✓ MongoDB
- ✓ Jasmine



Registration No: 241288

The Academic Council of Dursikshya
Certify that

John Doe

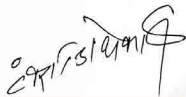
has completed a course titled

**Express Diploma in
Software Engineering**

of **6 MONTHS** duration
and found the candidate's performance to be

Excellent

given under our hand and seal on
this, the **January 2022**
at Kathmandu, Nepal



Center Head



Course Director

Student Registration No: R1028

Certificate No: DUR1028

LEGEND



% Marks	Interpretation
50-59.9	Satisfactory
60-69.9	Fair
70-79.9	Good
80-100	Excellent




Certificate

After completing this Express Diploma in Digital Marketing. You will receive a certification from Dursikshya Education Network with ISO Certified

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