
Introduction To Software Engineering



Introduction

Are you ready to jumpstart a career in tech but need the foundational skills to get started? The Introduction to Software Engineering course is beginner friendly and equips you with the essential skills and knowledge required to transition into the world of software engineering confidently. Whether you're a high school graduate, university student, career changer or a professional looking to build on your tech skills, this course provides a structured pathway to becoming a job-ready software engineer.

Why Learn Software Engineering?

In today's tech-driven world, software engineering is at the heart of innovation across industries. Learning the foundations of software engineering equips you with versatile, in-demand skills that open doors to various roles and career paths. With a strong foundation, you can grow into specialized fields or continue advancing into more complex areas of software development. This course gives you the confidence, credibility, and skill set to start your career in one of the most dynamic fields available.

Who is this course for?

- **Beginner Tech Enthusiasts** with limited coding experience looking for a well-rounded start in software engineering.
- **University/College graduates and early-career professionals** seeking hands-on experience and a clear path to a career in software engineering.
- **Career changers** who want to transition into the tech industry with a strong, structured foundation.
- **Working professionals in non-technical roles** who want to advance their careers by gaining technical skills.

What are the requirements to join?



Have basic IT/computer skills.



Have a laptop (core i5 and upwards, 8GB RAM, 500GB or more memory).



Have a stable internet connection.



Must have a desire and curiosity to learn.

Software Engineering Course Overview

Full-Time Online Classes

Duration - 5 weeks

Mode - 100% live & online classes
Mon - Fri from 8 am - 5 pm

Tuition Fees - tKsh 40,000

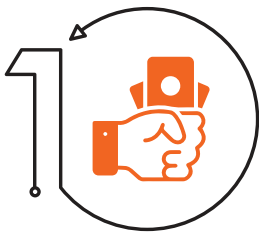
Full-Time In-person Classes

Duration - 5 weeks

Mode - 100% In-person classes
Mon - Fri from 8 am - 5 pm

Tuition Fees - tKsh 40,000

Fee Payment Options Available



Upfront Full Fee Payment

Course Outline

Orientation & Onboarding

- Course Overview
- System configurations and installations
- Onboarding

Prompt Engineering [AI], Command Line (CLI)

Learn the essentials of AI prompt engineering, including OpenAI tools, balancing user intent with model creativity, and real-world applications with ethical considerations. Gain hands-on experience with the command line, navigating files and directories, understanding terminal vs GUI, and exploring the connection between user-centered design and technology.

Git, Github & Introduction Programming

Learn version control with Git and GitHub, including workflows like cloning, branching, and merging, through hands-on sandbox exercises. Build a foundation in programming and web development, covering front-end vs back-end concepts, HTML markup, Markdown, formatting, multimedia integration, and writing README files with proper licensing.

Course Outline

Computer Science Fundamentals

Master front-end frameworks with Bootstrap, CSS, media queries, and responsive design. Learn computational thinking, problem decomposition, pseudocode, ES6 data structures, and debugging techniques. Explore web standards, browser devtools, and JavaScript essentials including variables, operators, functions, objects, scope, DOM manipulation, and inheritance.

Control Flow

Master JavaScript control flow, arrays, loops, prototypes, and regular expressions. Learn test automation with TDD, unit and integration testing, and best practices using Jest and Babel. Gain hands-on experience with CI workflows, npm, bundling JavaScript and CSS, code refactoring, and ES6 features including classes, arrow functions, and template literals.

Asynchronous Programming & Capstone Project

Learn client-server architecture, web APIs, and asynchronous programming. Master UI logic, event handling, and debugging with breakpoints. Apply your skills in a collaborative capstone project using SCRUM workflows, deploy your solution, and present it in a group showcase.

Contact Details



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