

Introduction to Programming in Java



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OVERVIEW

Course Description

The rise of technology is increasingly affecting our everyday lives — from work, commerce, entertainment, social networking and more. Computer programming has now become a core skill, on par with language and mathematics and software engineering is a driver of economic growth, offering millions of jobs worldwide.

In this course, you will learn how to write and run simple programs without having any previous programming experience. To provide context and motivation, examples and practical exercises relate loosely to different courses that you may progress onto.

The module uses a single programming language called Java and a programming environment called IntelliJ IDEA. However, it develops transferable programming skills by focusing on the fundamental concepts used in the majority of modern programming



Who is it for?

_It is for anyone who want to learn Java Programming

Entry Requirements

_ English Language: Applicants will be required to provide evidence of their proficiency

_The module requires basic knowledge of mathematics. No prior programming knowledge or experience is needed.



Assessment:

_Assesment for this course will involve coursework assignment, submitted at the end of the course.

_Quiz examination

Assessment criteria is based on: Distinction/ Merit/ Pass/ Fail



Progression

_Someone can progress to Intermediate and advance Java Programming

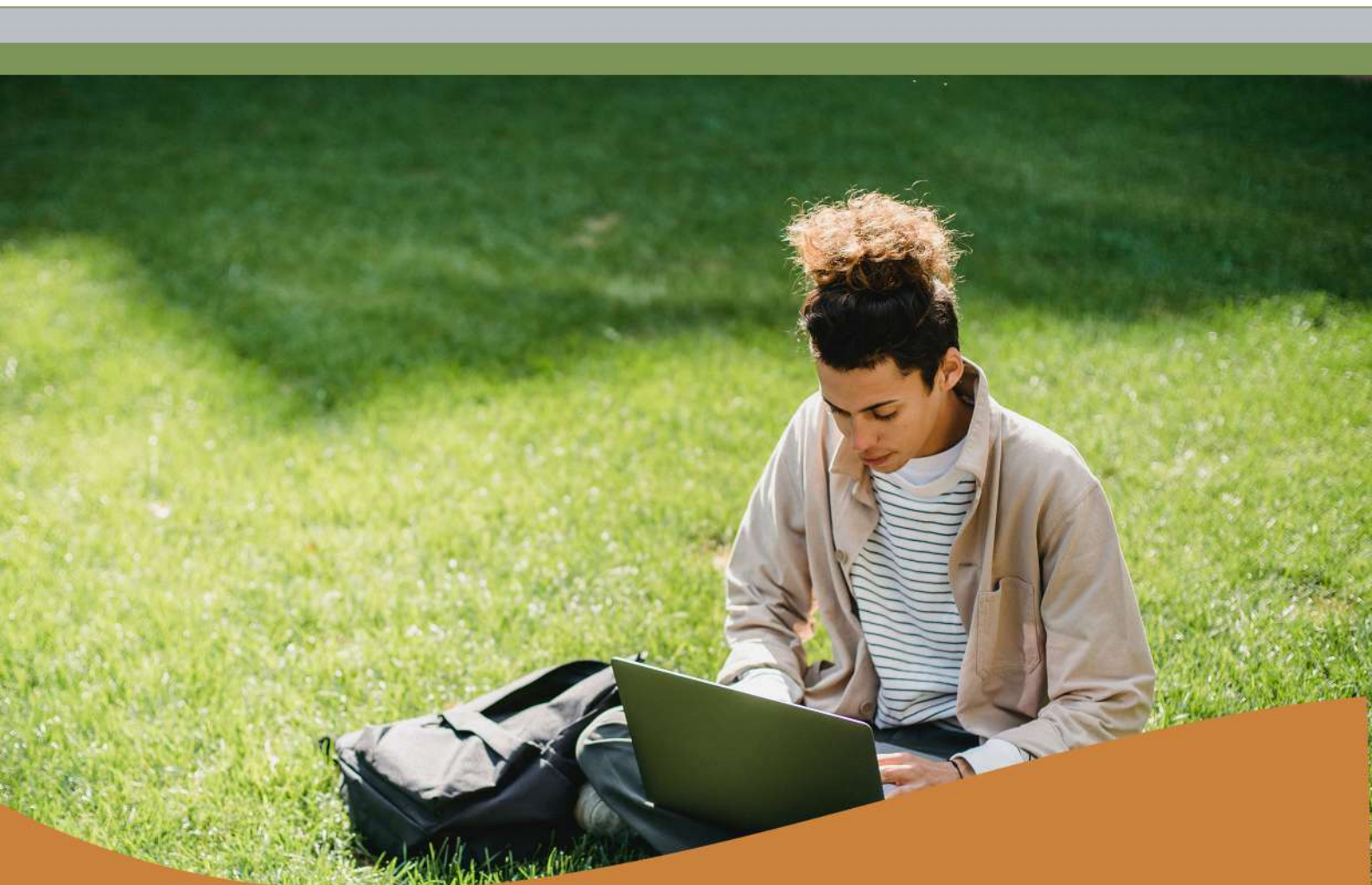
_Any other programming Languages

Modules

Learners who attend this course will develop skills in:

1. Reading, writing, editing, compiling, debugging, and testing computer programs.
2. Analyzing problems and designing software solutions.

Introduction, motivation and setting up, IDEs
Introduction to Java, variables, and data types
Operators and precedence
Conditionals and nesting
User input and Strings
Loops
Arrays
Formatted I/O
Functions
Structures and classes



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