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Description automatically generatedTutoring Scheme Syllabus - Java

2021

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| --- | --- |
| Instructor | Email |
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# General Information About Program

## Description

This tutoring program will introduce and dive the clients to the world of computer programming and various practices adopted in software development. This involves various object-oriented paradigms (polymorphism, inheritance etc.) and key fundamental concepts in automated decision structures, iterative structurers and more.

## Expectations and Goals

By the end of this program, I expect the clients to be equipped with a world leading programming language still underpinning global-scale software in the world today. Use of Java includes world-wide development of Android apps and software, server-side development for multi-national websites and much more.

Clients will have a competent grasp on the essential concepts, well and capable to apply and expand their skills and knowledge on avenues of interest, differentiating them from the average.

# Course Materials

## Installation Pre-Requisites – Will Be Installed Live with Client

* Eclipse IDE for Java Developers (2020 – 21)

## Recommended Books

**Guide To Java – A Concise Introduction to Programming (James T. Streib, Takako Soma)**

# Course Schedule

| Topics |  |  | Exercises |
| --- | --- | --- | --- |
| Encapsulation |  |  | Provided in Session |
| Automated Decision Making |  |  | Provided in Session |
| Overloading |  |  | Provided in Session |
| Inheritance, Polymorphism |  |  | Provided in Session |
| Arrays, Sorting Algorithms, String Manipulation |  |  | Provided in Session |