ADVANCED JAVA (JV 102)

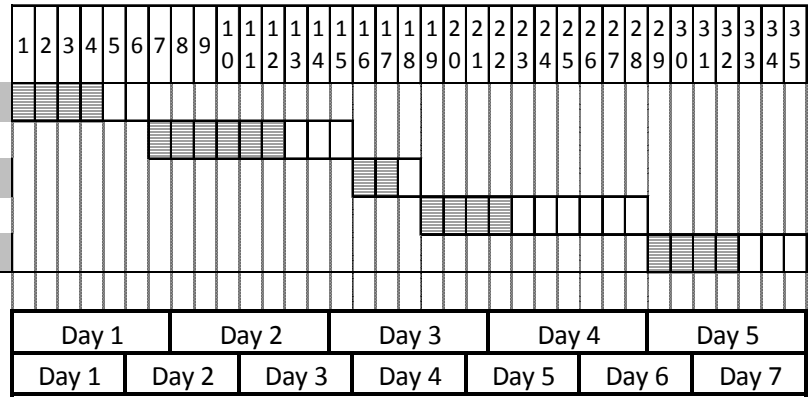
Course Title	Advanced Java
Course Number	JV102
Language of Instruction	Mainly English & Partially Arabic
Prerequisites	Java Beginner (JV 101)
Total Hours	35

COURSE DESCRIPTION

This course is a continuation of JV101 Java Beginner, using the same programming language; the course will extend the object-oriented programming principles to a moderate technical level of details. Apart from creating and manipulating members, objects, and classes, using an up-to-date Integrated Development Environment (IDE), the course will start by recapping the previous programming course arrays manipulation section, adding the applications of arrays such as (Sorting and Searching), Emphasis is placed on abstraction, encapsulation, inheritance, and polymorphism as the major four concepts of Object Oriented Principles. The course will introduce File Input/output, Exception handling, and advance data structures manipulation using Collection Framework and Generics. Upon completion, students should be able to understand, code, test, and debug a class diagram of more than five classes.

OUTLINE OF TOPICS AND SEQUENCE

No.	Topics
	Hours >> (Theoretical Hour / Practical Hour)
1	Java Arrays & Arrays Applications (Sorting and Searching)
2	Object Oriented Concepts (Abstraction, Encapsulation, Inheritance, and Polymorphism
3	Exception Handling
4	Java I/O
5	Using Collections



Express Track 9:00 am - 5:00 pm

Relax Track 3:30 pm - 9:00 pm