

- a) Demonstrate how Java can be used to solve real life problems.
- b) Employ various Java methods in computational solutions.
- c) Formulate and apply Java applications to solve a given problem.
- h) Identify and discuss components of object-oriented programming as implemented in the Java language.

1. Review Object Oriented Programming concepts

Data

- a. Data types
- b. classes
 - i. Double, Integer, etc. wrappers
 - iii. conversion methods String to ..

2. Operators

- a. mathematical
- b. relational
- c. logical
- d. increment/decrement
- e. application of operators to numerical computing

3. Statements

- a. invocation
- b. assignment
- c. repetition
- d. selection
- e. exception

4. Methods

- c. declaring
- d. calling
- e. parameter passing

5. Classes

- a. fields
- b. methods

6. Objects

- a. instantiation
- b. access
- c. protection

7. Input/Output

- a. console

8. Arrays and Strings

9. Files

- a. testing
- b. modifying
- c. opening
- d. reading
- e. writing
- f. closing