* Database- MySQL – 15 classes per class 1.5hrs total=22.5
* Introduction to Databases
* Create a schema Diagrams
* Create a database and related tables.
* DDL, DML, DRL, TCL commands
* Writing queries, run the query of the commands.
* Types of Joins
* Executing queries using joins.
* Practise on the errors while working the query.
* **Java (J2SE): 5 classes total=7.5hrs**

Understanding Java programming language and its features.

* + Variables, data types, and operators
  + Control structures (if-else, loops)
  + Methods and functions
  + Scanner Classes.
  + Classes and objects & Introduction to OOP concepts
  + Exception handling (try-catch, custom exceptions)
  + Arrays.
  + Strings.
  + Collections.
  + Java8 features.
  + Number Patterns, Binary Patterns, Array programs, String handling programs, basic programs.
* **JDBC (Connect database with MySQL and SQL and PostgreSQL): 10 classes = 15hrs**
  + Briefly explain about ODBC and JDBC drivers.
  + Using Connection Statement Programs.
  + Using Prepare Statement Programs.
  + Using Scanner class, connect to database.
  + Using Batch process.
* **Spring Frame Work: 10 classes = 15hrs**
  + Spring Core module.
  + Spring JDBC Module.
  + Spring MVC.
  + Spring Boot.
  + Briefly discussion about Http methods
* Post
* Get
* Put
* Delete
  + Spring Data JPA.
  + Spring Security.
  + For all the above Content Create a Web Application.
* **Web Services: 4classes = 6hrs**
* Introduction to Http Protocols.
* Implementing the programs using Rest Templates.

Note\*\*: Practise will be daily along with classes. The above-mentioned classes are tentative, may take some more classes than mentioned.