**Java-8:**

* Lambda Expressions
* Functional Interface
* Predicate & Supplier and Consumer Interface
* Streams
* Static Method
* Default method
* Optional class

**Spring**:

* IOC container
* Dependency Injection
* Bean
* Autowiring
* Qualifiers
* Annotations
* Spring boot crud operations - POST, GET, PUT, DELETE Mappings
* Entity designing
* Hibernate mappings – oneToOne, manyToOne, OneToMany, ManyToMany
* Hibernate joining multiple tables and columns
* Spring data Jpa repository --- Java Persistance API
* CRUD Repository
* Jpa anotations
* Jpa queries
* Jpql queries
* SQL -native queries
* Db connections with mysql
* Spring Profiles
* DTOs: data transfer object creationm
* Spring boot Exception’s handlings – custom exceptions and global exceptions
* Swagger ui Doc
* POST MAN
* Lombok plugin
* Maven build tool
* Tomcat server
* **Microserices**:
* Zuul API Gateway
* Eureka server-client
* Rest Template
* Bean creation
* Spring cloud sleuth – loggings
* Zipkin server

**Spring security** with basic inmemory Authentication

Softwares:

* Eclipse/Spring tool suite/ intellj
* Openjdk 11V+
* Apache Maven
* Apache tomcat
* Mysql installer (mysql workbench + mysql server + vs studio code plugin)
* Postman
* Git bash