**Spring Boot, ORM (JPA, Hibernate)**

1. **Course Target**

* Learn Spring Boot by hands-on project
* Learn ORM (JPA, Hibernate) by hands-on project

1. **Prerequisite**

* Knowledge of REST API
* Knowledge of GIT (Create Branch, Commit, Pull, Push, Fetch, Checkout, Merge etc.)
* Basic Java Programming
* Basic SQL.

1. **Course Organization**

* Course is divided in several tasks.
* Tasks are incremental, students have to complete current task to go for the next one.
* Every task has a specific goal.
* Every task has fixed duration to complete.
* The duration calculation of 1st task will be started from the day a student has enrolled.
* Rest of the task’s duration calculation will be started from the next day of the submission day of previous task.
* If a student takes casual/sick leave, task duration will be increased for that particular student without any impact on task evaluation.
* Instructor reserves the right to increase the duration of a task for all students if he/she thinks it’s positive for that particular task based on task complexity, student feedback and other situations.
* A student will be considered as passed for this course if all the tasks have been completed.

1. **Task Organization**

* Duration
* Goal description
* Learning/Helping materials
* What to submit
* How to submit

1. **Task Submission**

* Platform: GitHub
* Students will create release branch from main/development branch for a task from a given ready to run template project.
* Complete their task by creating feature branch
* Create merge request to submit the task [feature branch → release branch]
* Instructor will give feedback on GitHub merge request.
* A task is considered as submitted if the instructor approves the request and merge the code.
* Task submission process will be present in every task in details.

1. **Course Forum [Mandatory]**

* A group will be created including the instructor and the students as a forum for this course.
* Instructor will decide the forum platform. Recommended: MS Teams Channel
* Intention: Share ideas, cooperate with others, get help from instructor etc.