



Daffodil International University

Faculty of Science & Information Technology

Department of Computing and Information System

Final Examination, Spring-2026

Course Code: CIS-216L, Course Title: OBJECT ORIENTED PROGRAMMING Lab

Level: 2 Term:1

Exam Duration: 2 Hours

Marks: 40

Answer ALL Questions

Develop a Student Management Web Application using Spring Boot and Thymeleaf with a MySQL database. The system should allow users to perform full CRUD operations through web pages (or REST API).

1

1.	Project Setup- Create project using Spring Initializr Add dependencies: Spring Web , Spring Data JPA , Thymeleaf , H2 , Lombok	CO1 5												
2	Entity Class : Create Student entity with: id (Primary Key) , name , email , course , age .Use JPA annotations (@Entity, @Id, etc.)	5												
3	Repository Layer Create interface:	5												
4	Service Layer (8 Marks) Implement: Save student ,Get all students ,Get student by ID ,Update student,	10												
5	Controller Layer (7 Marks) Create MVC controller: URL <table><thead><tr><th></th><th>Function</th></tr></thead><tbody><tr><td>/students</td><td>Show all students</td></tr><tr><td>/students/new</td><td>Show form</td></tr><tr><td>/students/save</td><td>Save student</td></tr><tr><td>/students/edit/{id}</td><td>Edit form</td></tr><tr><td>/students/delete/{id}</td><td>Delete student</td></tr></tbody></table>		Function	/students	Show all students	/students/new	Show form	/students/save	Save student	/students/edit/{id}	Edit form	/students/delete/{id}	Delete student	10
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	Test it UI	5												