

## CSIT751 (Core Java)

### Module VI – Database Programming using JDBC

#### Practical Home Assignment: Java Swing with JDBC Desktop Application

Develop a **simple Employee Management** desktop application using **Java Swing** for the user interface and **JDBC** to connect to a MySQL database.

##### Requirements:

###### 1. Java Swing Frontend:

- Create a form with fields to **Add a New Employee**:
  - Employee ID (integer)
  - Name (text)
  - Department (text)
  - Salary (decimal)
- A **Submit** button to save the employee data into the database.
- A **View All Employees** button to display all employee records in a table within the Swing window.

###### 2. MySQL Database:

- Database name: `company_db`
- Table: `employees`
- Table structure:

```
employees (
    emp_id INT PRIMARY KEY,
    name VARCHAR(100),
    department VARCHAR(50),
    salary DECIMAL(10,2)
)
```

###### 3. JDBC Backend:

- Connect to the MySQL database using JDBC.
- Insert new employee records on form submission.
- Retrieve and display all employee records in the table on button click.

##### Directory Structure:

