## **Course Design Document**



Course Code	
Course Name	RDBMS

Duration (in days)	2.5	Proficiency Level	Fundamental
Pre-requisites	None	Target Audience	Campus Hires

## **Learning Outcome**

At the end of the program, participants will learn

- Database, DBMS and RDBMS concepts
- **DBMS** Architecture
- Data Models
- ER Diagram
- Relation Database concepts
- Normalization Process and different Normal forms
- Case Study on ER Diagram
- Case Study on Normalization

## Day-wise Session Plan

Day	Unit	Objective(s)	Hours
1	Database Fundamentals	<ul> <li>What is a Database?</li> <li>What is DBMS?</li> <li>DBMS vs File System</li> <li>DBMS Architecture</li> <li>Three-level DBMS architecture</li> </ul>	2
2	Data Models	<ul> <li>Data Models and Types of Data Models</li> <li>What is and Entity Relationship Diagram (ER Diagram)?</li> <li>Components of an ER Diagram</li> <li>Relationship         <ul> <li>One to One</li> <li>One to Many</li> <li>Many to One</li> <li>Many to Many</li> </ul> </li> <li>Case Study on ER Diagram</li> </ul>	6
3	Relational Database concepts	<ul><li>RDBMS Concepts</li><li>Keys in DBMS</li></ul>	4
4	Normalization	Normalization	8
		Total	20