



Report on Innovative Learning Practice

Academic Year 2021-22

Subject: Database Management System (CSC403)

In software engineering approach without designing you can't do anything. Database management system consists E-R diagram. E-R diagram having components like Entity, Attributes, Relationship and its type.

To work as a database engineer, a person should know the concepts of E-R diagram. To understand real life application i have given real life scenarios to students as a group activity.

The List of Topics/ Scenarios:

1. E commerce website
2. Hotel or Restaurant
3. Any social media application example Facebook
4. Railway Reservation
5. 4 wheeler vehicles showroom
6. Engineering Admission process
7. IPL management system
8. Bank Management System

Students in each group designed an E-R diagram for the above scenario which helps students to understand the database concepts and they like to work in groups.

Our students need to be engaged in learning in a variety of ways, but collaborative learning has been identified as a necessary skill for success in the 21st century and also an essential component of deep learning.

Cooperative learning involves students working together to accomplish shared goals, and it is this sense of interdependence that motivate group members to help and support each other. When students work cooperatively, they learn to listen to what others have to say, give and receive help, reconcile differences, and resolve problems democratically.

A tried-and-trusted cooperative learning technique that allows students to create their own learning. Students are divided into groups and each group is given different pieces of information that they have to learn sufficiently in a group.



Mapping with course outcome:

Method	CO	Mapping Level
Case Study	CO2: In the above case study students will draw an E-R diagram with the mentioned scenario.	3

Mapping with program outcome:

Method	PO	Mapping Level
Case Study	PO 3: In the above case study students will draw an E-R diagram with the mentioned scenario. So, it will be the solution for specified needs.	3
	PO9: Students are working on the above case study with team members.	3
	PO 12: The design of the E-R diagram is useful for all software projects, so it is useful for life long.	3

Mapping with program specific outcome:

Method	PSO 1	Mapping Level
Case Study	PSO 1: Students are finding solutions for real life problem.	2

Objectives:

1. To recognize the need of database management system.
2. To design ER and EER diagram for real life application



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Outcomes:

1. Students will understand the need for a database management system.
2. Students will design ER and EER diagrams for real life application.

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Subject In-Charge

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