ANURAG ENGINEERING COLLEGE

(An Autonomous Institution)

(CS407PC) DATABASE MANAGEMENT SYSTEMS LABORATORY

II Year B.Tech. IT - II Sem

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Course Objectives:

- To introduce ER data model and Relational data model
- To Design database schema for a given application and apply normalization.
- To gain knowledge of SQL commands for data definition and data manipulation.
- To understand the basics of querying.
- To develop solutions for database applications using procedures, cursors and triggers.

Co-requisites :"Database Management Systems"

List of Experiments:

1. Concept design with E-R Model
2. Relational Model
3. Normalization
4. Practicing DDL commands
5. Practicing DML commands
6. A. Querying (using ANY, ALL ,UNION, INTERSECT, JOIN, Constraint set c.)
   B. Nested, Correlated sub queries
7. Queries using Aggregate functions, GROUP BY,HAVING and Creation and dropping of Views.
8. Triggers(Creation of insert trigger, delete trigger, update trigger)
9. Procedures
10. Usage of Cursors

Text Books:

1. Database Management Systems, RaghuRamaKrishnan, Johannes Gehrke, Tata Mc Graw Hill,3rdEdition
2. Database System Concepts, Silber schatz,Korth,McGrawHill,Vedition.

Reference Books:

1. Database Systems design ,Implementation, and Management, Peter Rob& Carlos Coronel 7thEdition.
2. Fundamentals of Database Systems, Elmasri Navrate, Pearson Education
3. Introduction to Database Systems, C.J. Date ,Pearson Education
4. Oracle for Professionals, The X Team, S. Shahand V.Shah,SPD.
5. Database Systems Using Oracle: A Simplified guide to SQL and PL/SQL ,Shah, PHI.
6. Fundamentals of Database Management Systems, M.L. Gillenson, Wiley Student Edition.

Course Outcomes:

1. Develop ER data model and Relational data model for a database.
2. Design database schema for a given application and apply normalization.
3. Apply SQL commands for data definition and data manipulation.
4. Apply the basics of SQL for retrieval and management of data.
5. Develop solutions for data base applications using procedures, cursors and triggers.

CO-PO-PSO Mapping:

	PO-1	**PO-2**	**PO-3**	**PO-4**	**PO-5**	**PO-6**	**PO-7**	**PO-8**	**PO-9**	**PO-10**	**PO-11**	**PO-12**	**PSO-1**	**PSO-2**
CO-1	M	H	H	H	H	L	M						M	H
CO-2	M	H	M	M	M	M	L						M	H
CO-3	H	H	H	H	H	L	M						M	H
CO-4	M	H	H	H	M	L	M						M	H
CO-5	M	M	L	L	H	L	M						L	H

H-HIGH **M**-MODERATE **L**-LOW