Session Plan (January-May 2018)

Semester: Fourth Course Code: 402 Paper Code: 6373

Name Of Course: Data Base Management System

Course Outcomes(Cos)- Students will be able to-

CO402.1 Explain DBMS, its application and architecture.

CO402.2 Represent database design using various data models.

CO402.3 Represent database operations using Relational Algebra.

CO402.4 Identify Normal Form of given database and normalize the database further.

CO402.5 Write SQL Queries for data definition and data manipulation.

CO402.6 Explain advance database concepts.

UNIT 1- Database Concepts

S. NO	Topic Name	СО	Expected	Actual	Resource	Teaching	Remark
		Attempted	Date	Date	Used	Method	
1.	Introduction to database and database management system	CO 402.1	05/02/2018		Chalk-Board	Lecture	
2.	History of DBMS	CO 402.1	06/02/2018		Chalk-Board	Lecture	
3.	Disadvantages of file system data management	CO 402.1	07/02/2018 08/02/2018		Chalk-Board	Lecture	
4.	Database system applications	CO 402.1	09/02/2018		Computers	Demonstrati on	
5.	Advantages and disadvantages of DBMS	CO 402.1	09/02/2018 10/02/2018		Chalk-Board	Lecture	
6.	Three level architecture: Mapping between views	CO 402.1	12/02/2018		Chalk-Board	Lecture	
7.	Data independence	CO 402.1	13/02/2018		Chalk-Board	Lecture	
8.	DBMS users and administrators	CO 402.1	15/02/2018		Chalk-Board	Lecture	
9.	DBMS Architecture	CO 402.1	16/02/2018		Chalk-Board	Lecture	
10.	DML, DDL & DCL	CO 402.1	17/02/2018		Chalk-Board	Lecture	

Expected Study Hours: 06 hrs

Actual Study Hours:

Reason for delay:

UNIT 2- Data Models

S. N	Topic Name	СО	Expected	Actual	Resource	Teaching	Remark
0.		attempted	Date	Date	Used	Method	
1.	Introduction to data models.	CO402.2	19/02/2018		Chalk-Board	Lecture	
2.	Entities, attributes & association	CO402.2	20/02/2018 21/02/2018		Chalk-Board	Lecture	
3.	Relationship among entities	CO402.2	22/02/2018		Chalk-Board	Lecture	
4.	Representation of association & relationship	CO402.2	23/02/2018		Chalk-Board	Lecture	
5.	 Entity-Relationship model: Entity sets relationship sets constraints E-R diagram 	CO402.2	24/02/2018 26/02/2018 27/02/2018		Chalk-Board	Lecture	
6.	Entity- Relationship design issues	CO402.2	28/02/2018		Chalk-Board	Lecture	
7.	Generalization, Specialization & Aggregation	CO402.2	01/03/2018 03/03/2018		Chalk-Board	Lecture	
8.	Relational Model:	CO402.2	05/03/2018 To 07/03/2018		Chalk-Board	Lecture	
9.	Codd's Relational database rules	CO402.2	08/03/2018		Chalk-Board	Lecture	

Expected Study Hours: 10 hrs

Actual Study Hours:

Reason for delay:

UNIT 3- Database Design Concepts & Normalization

S.NO.	Topic Name	СО	Expected	Actual	Resource	Teaching	Remark
		Attempted	Date	Date	Used	Method	
1.	Relational algebra: Basic operation - select, join, projection Additional relational algebra Queries	CO402.3	09/03/2018 10/03/2018		Chalk-Board	Lecture	
2.	Functional dependency: Definition, Inference axioms for functional dependency Closure, cover and equivalence of FD Referential integrity	CO402.4	12/03/2018 To 14/03/2018		Chalk-Board	Lecture	
3.	Introduction to Normalization	CO402.4	15/03/2018		Chalk-Board	Lecture	
4.	1 NF, Data anomalies in 1 NF	CO402.4	15/03/2018		Chalk-Board	Lecture	
5.	Partial dependency, 2 NF, Data anomalies in 2 NF	CO402.4	16/03/2018		Chalk-Board	Lecture	
6.	Transitive Dependency, 3NF, Data anomalies in 3 NF	CO402.4	17/03/2018		Chalk-Board	Lecture	
7.	Boyce-Codd Normal Form	CO402.4	20/03/2018		Chalk-Board	Lecture	
8.	Lossless or Lossy Decomposition	CO402.4	21/03/2018		Chalk-Board	Lecture	

Expected Study Hours: 15 hrs

Actual Study Hours:

Reason for delay:

UNIT 4- Introduction to SQL

S.NO.	Topic Name	СО	Expected	Actual	Resource	Teaching	Remark
		Attempted	Date	Date	Used	Method	
1.	Introduction to SQL language.	CO402.5	22/03/2018		Chalk-Board	Lecture	
2.	Structure of SQL statements & SQL writing guidelines	CO402.5	22/03/2018		Chalk-Board	Lecture	
3.	Data Definition commands, describing the structure of a table	CO402.5	23/03/2018 24/03/2018		Computers and DBMS	Practical	
4.	Data manipulation commands	CO402.5	26/03/2018 To 28/03/2018		Computers and DBMS	Practical	
5.	Basic structure of SQL queries	CO402.5	31/03/2018		Chalk-Board	Lecture	

Expected	Study	/ Hours:	05	hrs
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Actual Study Hours:

Reason for delay:

UNIT 5- Advanced in SQL

S.NO.	Topic Name	СО	Expected	Actual	Resource	Teaching	Remark
		Attempted	Date	Date	Used	Method	
1.	SQL query structure for selection & join operators	CO402.5	02/04/2018 03/04/2018		Chalk-Board	Lecture	
2.	defining primary keys, foreign keys in a table	CO402.5	04/04/2018		Computer and DBMS	Practical	
3.	CHECK constraints, removing constraints from table	CO402.5	05/04/2018		Computer and DBMS	Practical	
4.	SQL functions: SUM(), AVG(), MAX(), MIN(), COUNT()	CO402.5	06/04/2018 07/04/2018		Computer and DBMS	Practical	
5.	Introduction to Triggers, stored procedures & views	CO402.5	09/04/2018 10/04/2018		Chalk-Board	Lecture	

Expected Study Hours: 15 hrs

Actual Study Hours:

Reason for delay:

UNIT 6- Advance Database Concepts

S.N O.	Topic Name	СО	Expected	Actual	Resource	Teaching	Remark
		Attempted	Date	Date	Used	Method	
1.	Introduction to transactions	CO402.6	11/04/2018 To 13/04/2018		Chalk-Board	Lecture	
2.	Introduction to concurrency control.	CO402.6	16/04/2018 17/04/2018		Chalk-Board	Lecture	
3.	Data mining & Data Warehousing.	CO402.6	19/04/2018		Chalk-Board	Lecture	
4.	Distributes & Object based database.	CO402.6	20/04/2018		Chalk-Board	Lecture	
5.	Introduction to Cloud based database.	CO402.6	21/04/2018		Chalk-Board	Lecture	

Expected Study Hours: 09 hrs

Actual Study Hours:

Reason for delay: