

Branch Name:	IMCA
Program Code:	CS301
Course Name:	DATABASE MANAGEMENT SYSTEMS-I Practical
Course Code:	1CS3010203P
Pre-requisite Course:	Basic knowledge of working with computers.

Course Objectives:

1. To understand the relational database design principles
2. To understand the designing database systems and applications.
3. To understand the Implementing database systems and applications.

Teaching Scheme (Hours per week)				Evaluation Scheme (Marks)				
Lecture (L)	Tutorial (T)	Practical (P)	Credit	Theory (Marks)		Practical (Marks)		Total (Marks)
				University Assessment	Continuous Assessment	University Assessment	Continuous Assessment	
-	-	3	3	-	-	25	25	50

LAB/Practical Ms Access.

1. Design a simple database using Ms Access.
2. Create table like Student, Employee using design view and wizard.
3. Query a database using different methods.
4. Create a form using design view and wizard.
5. Generate a report using design view and wizard.
6. Create Macros to Automating Tasks
7. Create a database named “school.mdb” and perform the following tasks:

 Create a table named “student info” having following table structure.

Field Name	Data type	Descriptions
Class	Number	-
Section	Text	-
Rollno	Number	Primary key
Name	text	40 character long
Status	Look up Wizard	Two value senior junior
photo	Ole object	Photos of students
Dob	Date/time	Date of Birth of Student
Remark	memo	

- a) Fill at least 5 records.
 - b) Prepare a query to display all records and Name should be in ascending order.
 - c) Prepare a query named “senior” to display records including fields name, class, sec, rollno, status, photo and value of “status” field must be senior.
 - d) Prepare a form of above query “senior”.
 - e) Prepare a report of all the fields of above table
8. Create a database named “library.mdb” and perform the following tasks:

 Create a table named “Book” having following structure:

Field Name	Data type	Descriptions
Book_id	Text	Primary key. Book identification number
B_name	Text	Book name
W_name	Text	Writer's Name
P_year	Date/time	Published Year
P_name	Text	Publisher Name
Price	Currency	Purchased Price
P_date	Date/time	Purchased Date
Remarks	memo	Comment

- Add at least 5 records.
- Prepare a query to display only records including book name, writer name and
- Publication name. Save the query as "q_book".
- Prepare a query to display all records on the basis of price which is more than Rs500.e.
- Prepare a form on the basis of table.
- Prepare a report on the basis of query named "q_book"

Text Books:

- C J Date, A Kannan, S Swaminathan, "An Introduction to Database Systems", 8th Edition, Pearson Education (2006).
- Fundamentals of Database System By Elmasari & Navathe, 7th Edition, 2018, Pearson Education

Reference Books:

- Silberschatz, Korth, Sudarshan, "Database System Concepts", 5th Edition, McGraw Hill Publication
- S K Singh, "Database Systems : Concepts, Design and Applications", Pearson Education
- An Introduction to Database Systems - C. J. Date - Pearson/Addison Wesley publisher
- Microsoft Access Fundamentals – Rudy LeCorp-RGL publication

List of Open Source Software/learning website:

- <https://www.tutorialspoint.com/dbms/index.htm>
- <https://www.w3schools.in/dbms>

E-Resource / Web Links:

<http://inpics.net/tutorials/access/basics.html>

Course Learning Outcomes (CLO): On completion of this course, the students will be able to:

CLO	Description	Bloom's Taxonomy Level
CLO1	The fundamental elements of database management systems	2 Understanding
CLO2	Design ER-models to represent simple database application scenarios	1 Remembering 3 Applying,
CLO3	Familiar with basic database storage structures and access techniques: file and page organizations, indexing methods	2 Understanding, 3 Applying,
CLO4	Working on existing database systems, designing of database, creating relational database, analysis of table design.	3 Applying, 2 Understanding
CLO5	Ability to store information without unnecessary redundancy.	5,3, 4 Evaluate , , Applying, Analyze
CLO6	Effective transformation of the real-world data into the relational data model of the Database system and data retrieval.	6 Creating 5 Evaluate

Mapping of CLOs with Pos & PSOs

Course Learning Outcomes	Program Outcomes (POs)												PSO 1	PSO 2
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12		
CLO1	M	M	L		M		L	M	L	M		M	H	M
CLO2	M	M	H			M	M			H	L	L	H	M
CLO3	H	M	H		M	M		M	L	M		H	L	M
CLO4	M		H	M	M	L	M	L	M		H	H	H	M
CLO5	H		M	M	M	M	L	H	H	M	H	H	H	L
CLO6	H	M						H	L	L	M	H	H	H

H: High, M: Medium, L: Low