



ST. ALOYSIUS COLLEGE(AUTONOMOUS), JABALPUR

Reaccredited 'A+' Grade by NAAC(CGPA:3.68/4.00)

College with Potential for Excellence by UGC

DST-FIST Supported & STAR College Scheme by DBT

Faculty of Science

Bachelor of Business Administration

SUBJECT: BBA

B.B.A. II Semester

Paper-Elective

Database Management System using MS Access

Course Outcomes

CO. No.	Course Outcomes	Cognitive Level
CO 1	Students will demonstrate a thorough understanding of fundamental database concepts, including database architecture, data models, and the role of a database administrator.	U, Apply, Analyze
CO 2	Students can use SQL effectively to define, manipulate, and control data within a relational database.	K,Apply
CO 3	Students will be capable of designing and managing database tables, creating and modifying forms, and generating reports.	U,K
CO 4	Students will understand each model's advantages and disadvantages and be able to choose the best one for their data needs.	U, Analyze
CO 5	Students will also learn to create comprehensive reports, previewing, printing, and modifying them to suit specific requirements.	U

Credit and Marking Scheme

	Credits	Marks		Total Marks
		Internal	External	
Theory	3	40	60	100
Practical	1	40	60	100
Total	4	200		

Evaluation Scheme

	Marks	
	Internal	External
Theory	3 Internal Exams of 20 Marks (During the Semester) (Best 2 will be taken)	1 External Exams (At the End of Semester)
Practical	3 Internal Exams (During the Semester) (Best 2 will be taken)	1 External Exams (At the End of Semester)





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Content of the Course

Theory

No. of Lectures (in hours per week): 2 Hrs. per week

Total No. of Lectures: 60 Hrs.

Maximum Marks: 60

Units	Topics	No. of Lectures
I	Introduction: Database system concepts, Database system, Advantages of database systems; Data Architecture of data system: View/Schema, logical, conceptual and physical, data dictionary, Database administrator. Types of Data Models:- Relational, Hierarchical and Network Model their advantages and disadvantages	15
II	Commands of database:- Introduction to SQL, Data Definition Language, Data Manipulation Language, Data Control Language, Primary Key Constraint. Introduction of MS Access:- Concepts & terms : database tables, relational database, records, fields, controls & objects , queries forms, reports , properties	15
III	Creating database and tables with and without wizard, data types; properties, adding & deleting fields, primary key field & indexing fields. MS Access Form: Form wizard , Saving & Modifying forms, Entering & Editing data , Finding , sorting and displaying data creating queries , using select queries and wild cards	15
IV	MS Reports: Creating reports, Previewing reports, Printing reports, modifying and Saving reports. Expressions, Create Pivot Table or Pivot Chart views in an Access desktop database.	15

References

Text Books:

- Advanced Database Management System – Dr.Sanjeev Sharma, Dr.Jitendra Agrawal
- Database Management Systems, Raghurama Krishnan, Johannes Gehrke, TATA McGrawHill 3rd Edition
- DBMS Through MS Access - SY BCA (Kolhapur) , Author: Ravish Kumar Mishra

Reference Books:

- Fundamentals of Database Systems, Elmasri Navathe Pearson Education.
- An Introduction to Database Systems, C.J. Date, A.Kannan, S.Swami Nadhan, Pearson, Eight Edition



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- "Access 2019 Bible" by Michael Alexander and Dick Kusleika
- An Introduction to Database Systems, C J Date, Addition-Wesley.
- Understanding SQL by Martin Gruber, BPB
- SQL- PL/SQL by Ivan Bayross

List of Practical

1. Create a database "College" and table "Student". The following are the Fields of the Table , Use both Design and Datasheet View

- StudentId,
- Student_Name,
- Student_Phoneno,
- Student_Address,
- Student_Stream

2. Create a Random Table and use all datatypes available in MS- Access and set field property as required.

3. Create a Random table and create a Form Using a Form Wizard and Using the new form add two more new records in it.

4. Create a CUSTOMERS Table with the following Field properties :

CUSTOMERS Table Field Names:

- Customer ID (Primary Key: CID)
- First Name (FNAME)
- Last Name (LNAME)
- City (CITY)
- State (STATE)
- Number of Purchases (PNUMBER)
- Total Amount of Purchases (PTOTAL)
- Date of Last of Purchase (PLAST)

And Create a form for the CUSTOMERS table. Include all fields in the form. Create a form without using Form Wizard.

5.(A) Create a table called Publisher having the following structure :

Field Name	Data Type
PubID	Short Text
PubName	Short Text
URL	Hyperlink

- Set the field PubID as the primary key.
- Set the Field Size field property of the field PubID to 5.
- Set the Field Size field property of the field PubName to 50.
- Set the caption property of the PubID field to Publisher ID.
- Set the caption property of the PubName field to Publisher's Name.

(B) Enter the following data for the Publisher table :



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PubID	PubName	URL
MH	McGraw-Hill	http://www.mhhe.com
PH	Prentice Hall	http://www.prenhall.com
WI	Wiley	http://www.wiley.com
EL	Elsevier	http://www.elsevierdirect.com
AW	Addison Wesley	http://www.aw.com
MP	MIT Press	http://mitpress.mit.edu
CL	Cengage Learning	http://cengage.com

6. Create a Table Name “Employee” and use the INDEX field property and create an Index of the field Employee_Name.

7. Create two Table name “Author” and “Book” separately and perform following operation:
Create a relationship between the AuthorID field in the Author table and the AuthorCode field in the Book table. Put a checkmark in the box labeled Enforce Referential Integrity. .

8. Create a database “Student”. Also, create table “studtable” and execute the following queries :

SRollno	Sname	English	SL	FA-I	BE	BOM	IT
101	Rajendra	75	85	90	85	86	90
102	Arvind	88	75	95	80	82	85
103	Krishna	89	77	82	78	82	86
104	Harish	75	72	70	65	60	77
105	Rajesh	86	85	81	80	89	90

a) Sort the data by Sname.

b) Calculate the Total Marks of Individual Students.

c) Calculate Percentage Marks of Individual Student.

9. Create a Table name Order Details and use Validation Rule field property to set the validation for following criteria:

A. Not Null Data Validation

- Field Name: Customer_Name
- Validation Rule: Is Not Null
- Validation Text: Please enter customer name.

B. Range Validation

- Field Name: Order_Number
- Validation Rule: Between 18 And 120



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- Validation Text: Number must be between 18 and 120.

10. Create the table name “ Organisation” and generate a Report of it.

