



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

B.A II Semester

Paper:- Open Elective

Subject:- Basics of Programming Methodology and Database -II

Course Outcomes

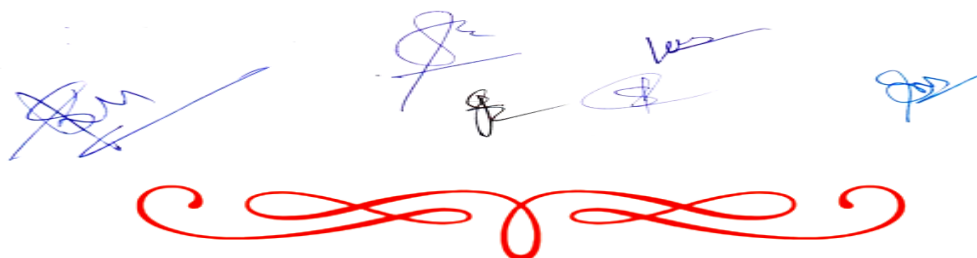
CO. No.	Course Outcomes	Cognitive Level
CO 1	To understand the basic concepts of computer programming	Un
CO 2	To understand the concept of functions and arrays	Un
CO 3	To understand the concept of database	Un, An
CO 4	To understand the basic concepts of MS-Access	Un, Ap
CO 5	To develop the concept of form designing and report designing using MS-Access	Ap,E

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 Exam (At the End of Semester)
Practical	3 Internal Exams during the semester	1 External Exam (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: 45

Maximum Marks: 60

Units	Topics	No. of Lectures
I	MS Access: Concepts & terms : database tables, relational database, records, fields , controls & objects , queries forms, reports , properties , wizards , macros , Creating database & tables with & without wizard, data types & properties, adding & deleting fields, primary key field & indexing fields.	11
II	MS Access Form: Form wizard , Saving & Modifying forms Entering & Editing data , Finding , sorting & displaying data creating queries , using select queries and wild cards.MS Reports: Creating reports, Previewing reports, Printing reports, modifying & Saving reports. Expressions, Create Pivot Table or Pivot Chart views in an Access desktop database.	11
III	Introduction to Programming and Characteristics. Stages in Program Development. Algorithms, Flowcharts, Types of Programming, Introduction to C Programming - Basic Program Structure, Data Types, Variables, Constants, Operators, Keywords. Data types in C(int, float and char).	12
IV	Control statements in C , Arrays - Declaration and Execution, Syntax, one dimensional array, Functions Pre-defined and User Defined Functions,Structure.	11





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Text Books:

- 1., Gini Courter, Annette Marquis., Microsoft Office 2000, B.P.B. Publications
- 2., Saxena Sanjay, S Schnd, Microsoft Office 2000 for everyone, Vikas Publishing
- 3., Michael Alexander, Richard Kusleika, Access 2016 Bible, Wiley
- 4., Greg Harvey, Excel 2019, For Dummies
- 5, S.S. Bhatia, Programming in C, PHI Publication

List of Practical

1. Create database named "Student", create table name "Student_details". Insert 10 rows and find all the students whose marks are greater than 60%.
2. Create SQL query to sort the above data in ascending order.
3. Design a form using form wizard and update the data base.
4. Design a form using design view and update the records.
5. Design a report on above said database and implement the mathematical functions.
6. Write a program in C to find simple interest using arithmetic operators.
7. Write a program in C to implement decision control statements.
 - a. Write a program to find the greater number among two.
 - b. Write a program to check whether the entered character is vowel or consonant.
8. Write a program to find factorial using loop.
9. Write a program to implement array.
 - a. Write a program to enter 10 numbers using array and print them in reverse order.
10. Write a program to create user defined functions.
 - a. Write a program to create user defined function sum having no argument and no return.
 - b. Write a program to create user defined function sum with argument and no return.
 - c. Write a program to create user defined function sum having no argument and with return.
 - d. Write a program to create user defined function sum with argument and with return.
11. Write a program to implement structures.
 - a. Write a program to create structure of student having roll_no, name, m1, m2, m3, m4, m5 and percentage. Enter the values for roll_no, name, m1, m2, m3, m4 and m5, then find out the percentage of student.

