



ST AGNES COLLEGE (AUTONOMOUS)

Mangaluru - 575002

Re-accredited by NAAC with A+ Grade, CGPA 3.65/4 (Cycle 4)

College of Excellence by UGC, New Delhi

Star College Status by DBT, MST, Govt. of India

M.Sc Big Data Analytics 2022-23

VALUE ADDED COURSE

INTRODUCTION TO DATABASES AND SQL QUERIES

Duration:30 Hours

Resource Person
Hannabel H. Alva



Course Outcomes:

- Understand the fundamental concepts of Databases, the structure and design of relational databases.
- Familiarize SQL syntax and formulate SQL queries on data associated with String manipulation, Aggregation and Join operations.
- Demonstrate the use of SQL DDL to create, modify and drop objects within a relational database.
- Develop complex SQL queries to retrieve information from databases with many tables to support business decision making.

Syllabus

- Introduction to Databases and Database concepts.
- Creating a SQL Table.
- Query handling - select, where , group by , having, order by, in, between, distinct, calculated column, temp tables, insert, delete, update, grant, revoke.
- SQL Joins - Inner Join, Outer Join, Left Outer Join, Right Outer Join, Full Outer Join And Cross Join.
- Aggregation functions like sum(), count(), avg(), String functions like left(),right(), ltrim(), rtrim(), concat(), upper(), lower(), len().
- Conclude on Introduction to Databases and Queries.

Criteria for Evaluation and Marks Distribution

- Quiz - 20 marks
- Laboratory Exercises - 20 marks
- Attendance - 10 marks.

Grading Pattern:

- A - 40 and above
- B - 30 – 39
- C - 25 – 29
- D - 24 and below