

Title of Skill Course: Basics in Database Analyst**1. Department:** Department of Computer Science Optional**2. Title:** Basics in Database Analyst**3. Sector:** Information Technology**4. Eligibility:** B.Sc. I**5. Year of implementation:** 2022**Course Structure**

Skill Level	Theory Hours	Practical Hours	Total Hours	Credits	No. of students in batch
4	10	05	15	01	30

Syllabus**Course Objectives:**

1. To understand how to write and manage database.
2. To learn PL/SQL Structure and implementation.

UNIT NO.	SEMESTER-I SECCST 101	No. of hours per unit/credits
UNIT - I	Role and Responsibility	(04)
	What is Database Analyst, work of a Data Analyst in the industry, Data Analyst Job Requirements, Skills of a Database Analyst-Technical, Leadership skill, Project management skills, Core and Soft skills, Key Roles and Responsibilities, Database Analyst vs. Data Analyst, Database Analyst vs. Database Administrator.	
UNIT - II	Technical Knowledge	(06)
	Introduction to database and RDBMS - Database Objects, Database Tables, Table Records, Types of Database Management Systems, Install Database Engine - Download MS SQL Server or Oracle or MySQL Database Engine, and Install, Introduction to SQL, SQL Datatype, SQL Operator, SQL Comments, Constraints in SQL, SQL Data Definition Language Commands - CREATE, ALTER, DROP, TRUNCATE, and Rename, Data Manipulation Language Commands - SELECT, INSERT, UPDATE, and DELETE, DCL commands - GRANT and REVOKE.	

Course Outcomes:

1. Use built-in functions successfully.
2. Enhance Programming and Software Engineering skills and techniques using SQL and PL/SQL.

Reference Books:

- 2) 1. “Database Systems, Concepts, Design and Applications” by S.K.Singh, Pearson Education.
- 3) 2. “Database Management Systems” by Raghu Ramakrishnan, Johannes Gehrke, McGraw Hill Publication.
- 4) 3. “Fundamentals of Database Systems” by Elmsari, Navathe, 5th Edition, Pearson Education (2008).

Practical		No. of hours per (05)
1	Install Database Engine – Oracle.	
2	Perform Data Definition Language Commands.	
3	Demonstrate Data Manipulation Language Commands.	
4	Implement Data Control Language Commands	
5	Apply different Constraints on database tables	

BOS Sub Committee:

Sr. No.	Name of Member	Designation	Address
1.	Ms. D. B. Jangam	Chairman	YCIS, Satara
2.	Ms. V. N. Pawar	Member	YCIS Satara
3.	Dr. Poonam Ponde	Academic Expert	Nowrosji Wadia College, Pune
4.	Ms.Shraddha Sonawane	Industrial Expert	Cognizant Solution, Pune