



# KONGU ARTS AND SCIENCE COLLEGE

(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore)

**ERODE – 638 107**

## DEPARTMENT OF COMPUTER APPLICATIONS

### VALUE ADDED COURSE – SYLLABUS

#### 20VCASQ – QUERYING AND MANAGING DATA USING SQL

**Course Objective:** To enable the students to understand the fundamentals of database systems, and query processing, fundamentals of PL/SQL.

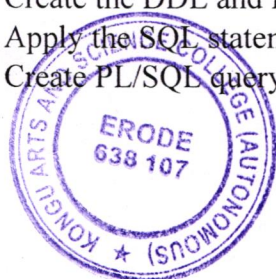
<b>UNIT I</b>	<b>Introduction</b>	8 Hours
Introduction – DBMS - RDBMS – Databases – Advantages of using a DBMS - Integrity Rules – Keys - Constraints - Database Design – Normal Forms – Denormalization.		
<b>UNIT II</b>	<b>DDL &amp; DML Comments</b>	6 Hours
DDL - Naming Rules and conventions – Creating Table – Altering an Existing Table – Dropping, Renaming, Truncating Table – DML – Insert – Update – Delete - Viewing Data in the tables.		
<b>UNIT III</b>	<b>Constraints and Functions</b>	8 Hours
Sorting - creating table from a table - inserting data into a table from another table - Applying constraints - built in Functions - Grouping Data		
<b>UNIT IV</b>	<b>Joins &amp; PL/SQL Introduction</b>	9 Hours
Joins – sub queries – Views – Procedures.		
<b>UNIT V</b>	<b>PL/SQL</b>	9 Hours
Cursor – Triggers – Transactions.		
<b>Total Hours</b>		40 Hours

#### Reference Books

1. Nilesh Shah, “DATABASE SYSTEMS USING ORACLE”, 2nd edition, PHI, 2011.
2. “Database Management Systems”, Arun Majumdar & Pritimoy Bhattacharya, 2007, TMH.
3. “SQL, PL/SQL The Programming language of Oracle”, Ivan Bayross, III Revised Edition, BPB Publications, 2010.

**Course Outcome:** On Completion of this course the students will be able to

- Understand the basic concepts of DBMS and RDBMS.
- Create the DDL and DML statements in SQL.
- Apply the SQL statements for Database Management.
- Create PL/SQL query for the database access.



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