

**JYOTI NIVAS COLLEGE AUTONOMOUS
SYLLABUS FOR 2018 BATCH AND THEREAFTER**

Programme: B.C.A

Semester: IV

DBMS- LAB

Course Code: 18BCAIVP2

No. of Hours: 60

COURSE OBJECTIVES:

- To learn to write Oracle SQL queries.
- To develop robust application using Oracle

LEARNING OUTCOMES:

- To understand structure query language
- To create Oracle database applications, to efficiently handle and interact with database

Exercise: I

1. Creating relevant tables with proper constraints.

Exercise: II

1. Implementing Select queries with Where clause
2. Implementing Select queries with sort using order by clause
3. Implementing Select queries with inner join.
4. Implementing Select queries with outer join.
5. Implementing Select queries with self join.
6. Implementing Select queries with subqueries.
7. Implementing Select queries with builtin numerical function.
8. Implementing Select queries with builtin string function.
9. Implementing Select queries with builtin date function.
10. Implementing queries to altering the structure of the tables by adding new columns.
11. Implementing queries to altering the structure of the tables by changing existing columns.
12. Implementing queries to change the values in the columns.
13. Implementing queries to enable or disable constraints.
14. Implementing queries to delete the unwanted values.
15. Implementing queries to drop tables.

Exercise III

1. PL/SQL program to implement Looping statements.
2. PL/SQL program to implement Conditional Branching Statements.
3. PL/SQL program to implement Implicit Cursor.
4. PL/SQL program to implement Explicit Cursor.
5. PL/SQL program to implement Procedures.
6. PL/SQL program to implement Functions.
7. PL/SQL program to implement Packages.

8. PL/SQL program to implement Triggers.
9. PL/SQL program to implement Exceptional Handling.
10. PL/SQL program to create their own Exceptional Handling.

The questions will be based on the following domains:

1. Student Information System
2. Railway Reservation System
3. Book Publishing System
4. Hospital Management System.
5. Bank Management System.