# MITM_Logo****Muzaffarpur Institute of Technology**** (MIT), Muzaffarpur

# (Under the Department of Science & Technology Govt. of Bihar, Patna)

# Department of Information Technology

**COURSE NAME: DATABASE SYSTEMS LABORATORY**

**COURSE CODE: 051509**

**List of Experiments(Mandatory):**

* + - 1. Study the basics of Oracle Database and its installation steps
      2. Study & Implementation of DDL and DML Commands in Oracle Database.
      3. Implementation of Logical operators in SQL Commands
      4. Implementation of numeric functions in SQL commands.
      5. Implementation of SQL operators and aggregate functions in SQL commands.
      6. Implementation of string functions using SQL commands and queries
      7. Implementation of constraints like primary key, foreign and unique key using SQL commands
      8. To apply the foreign key constraint in SQL queries, like on delete cascade, on delete set NULL, enable constraint and disable constraints
      9. Implementation of Join operators in SQL commands:
         1. Natural b) Inner c) Left outer d) Right outer e) Full outer
      10. Implementation of the GROUP BY Clause.
      11. Implementation of IN, ANY, ALL, EXIST, NOT EXIST in SQL commands.
      12. Introduction to PL/SQL and implementation of various programs

**List of some advance Experiments:**

1. Demonstration of connectivity of Database with two-tier client-server Applications
2. Implementation of High level language extension with Triggers
3. Implementation of High level language extensions with cursors
4. Implementation Embedded SQL Commands
5. Automatic Backup of Files and Recovery of Files