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

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

# Department of Information Technology

**COURSE NAME: COMPILER DESIGN**

**COURSE CODE: 05 1516**

**List of Experiments(Mandatory):**

1. Write a C program to identify whether a given line is a comment or not.
2. Write a C program to recognize strings under 'a', 'a\*b+', 'abb'
3. Write a C program to test whether a given identifier is valid or not
4. Write a C program to simulate lexical analyzer for validating operators.
5. Write a C program to find whether given string is constant or not.
6. Write a C program to count blank space and count the no. of lines
7. Write a C program to implement operator precedence parsing
8. Write a C program for constructing of LL (1) parsing

**List of some advance Experiments:**

* + - 1. Write a C program for constructing recursive descent parsing
      2. Write a C program to implement LALR parsing
      3. Write a C program to implement Program semantic rules to calculate the expression that takes an expression with digits, + and \* and computes the value
      4. Implement the lexical analyzer using JLex, flex or other lexical analyzer generating tools
      5. Write a C program to generate machine code from abstract syntax tree generated by the parser