**COMPILER DESIGN**

**(01CE0714)**

**2025-2026**

**STUDENT LAB MANUAL**

**INDEX**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr. No.** | **Title** | **Date** | **Grade** | **Sign** |
| 1 | Write a C Program to remove Left Recursion from grammar |  |  |  |
| 2 | Write a C Program to remove Left Factoring from grammar |  |  |  |
| 3 | Write a C program to implement finite automata and string validation. |  |  |  |
| 4 | Prepare report for Lex and install Lex on Linux/Windows |  |  |  |
| 5 | (a) WALEx Program to count words, characters, lines, Vowels and consonants from given input  (b) WALEx Program to generate string which is ending with zeros. |  |  |  |
| 6 | (a) WALex Program to generate Histogram of words  (b) WALex Program to remove single or multi line comments from C program. |  |  |  |
| 7 | WALex Program to check whether given statement is compound or simple. |  |  |  |
| 8 | WALex Program to extract HTML tags from .html file. |  |  |  |
| 9 | Write a C Program to compute FIRST Set of the given grammar |  |  |  |
| 10 | Write a C Program to compute FOLLOW Set of the given grammar |  |  |  |
| 11 | Write a C Program to implement Operator precedence parser |  |  |  |
| 12 | Write a C Program for constructing LL (1) parsing |  |  |  |
| 13 | Write a C program to implement SLR parsing |  |  |  |
| 14 | Prepare a report on YACC and generate Calculator Program using  YACC. |  |  |  |

**Practical 1**

**Title:** **Write a C Program to remove Left Recursion from the grammar**

**Hint :**

**Program :**

**Output:**

**Practical 2**

**Title:** **Write a C Program to remove Left Factoring from the grammar**

**Hint :**

**Program:**

**Output:**