**CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY**

**DEVANG PATEL INSTITUTE OF ADVANCE TECHNOLOGY AND RESEARCH**

**Department of Computer Science and Engineering**

**ACADEMIC YEAR: 2022-2023**

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| **Subject Name: DESIGN OF LANGUAGE PROCESSOR** | **Subject Code: CS450** |
| **Semester: 7th** |  |

**Practical List**

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| Sr. No. | Aim | Hrs. | COs |
| 1 | Implement a lexical analyzer for a subset of C using LEX Implementation should support Error handling. | 2 | CO1 |
| 2 | Implement a lexical analyzer for identification of numbers. | 2 | CO6 |
| 3 | Write an ambiguous CFG to recognize an infix expression and implement a parser that recognizes the infix expression using YACC | 2 | CO2 |
| 4 | Implement a Calculator using LEX and YACC. | 4 | CO1 |
| 5 | Implementation of Syntax Tree | 4 | CO1 |
| 6 | Implementation of Context Free Grammar. | 4 | CO4 |
| 7 | Design of a Predictive parser | 4 | CO3 |
| 8 | Implementation of code generator. | 2 | CO6 |
| 9 | Implementation of code optimization for Common sub-expression elimination, Loop  invariant code movement. | 2 | CO6 |
| 10 | Implement Deterministic Finite Automata. | 2 | CO5 |