

19-202-0712 LANGUAGE PROCESSORS LABORATORY

Course Outcomes:

On completion of this course the student will be able to:

1. *Design assemblers and macro processors .*
2. *Design deterministic finite automata for any language.*
3. *Implement lexical analyser.*
4. *Implement YACC programs for any context free grammar.*
5. *Design any top-down or bottom-up parsing algorithm.*

Cycle-I

Implementation Two Pass Assemblers, Macro Processors and Deterministic Finite Automata.

Cycle- II

Implementation of LEX programs.

Cycle-III

Implementation of YACC programs.

Cycle-IV

Implementation of parsing algorithms.

References:

1. Hopcroft J. E., Motwani, R. and Ullman J. D., Introduction to Automata Theory, Languages, and Computation, 3rd Edition, ISBN : 978-03-214-5536-9.
2. Padma Reddy, A.M., Finite Automata and Formal Languages, 1st Edition, Pearson , Education ISBN 978-81-317-6047-5.
3. Mishra, K.L.P. and Chandrasekaran, N., Theory of Computer Science, Automata, Languages and Computation, 3rd Edition, PHI, 2014, ISBN 978-81-203-2968-3.
4. Peter Linz, An Introduction to Formal Languages and Automata, 4th Edition, Narosa Publishing Co., ISBN 978-81-7319-781-9.
5. John R Levine, Tony Mason and Doug Brown, Lex & YAcc, Oreilly, 2nd edition
6. web reference: Lex and Yacc Tutorial by Tom Niemann