# 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, 3 rd Edition, ISBN : 978-03-214-5536-9.
  2. Padma Reddy, A.M., Finite Automata and Formal Languages,1stEdition,Pearson , Education ISBN 978-81-317-6047-5.
  3. Mishra, K.L.P. and Chandrasekaran, N., Theory of Computer Science, Automata, Languages and Computation, 3 rd 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