SUBJECT NO-CS39003, SUBJECT NAME- COMPILERS LABORATORY

LTP- 0-0-3,CRD- 2

SYLLABUS :-

The aim is to write a compiler for a small language.Familiarity with compiled codes (assembly language) of RISC and CISC machines, writing a scanner, writing a predictive parser for a small language, a small experiment with scanner (lex/flex) and parser (yacc/byson) generator (such as translation of regular expressions to NFA or the construction of parse tree), writing scanner-parse specification for a small language, translation of the language to an intermediate form (e.g. three-address code), generation of target code (in assembly language). Code improvement (optional).References1.Alfred V. Aho, Ravi Sethi, Jeffrey D. Ullman, Compilers: Principles, Techniques and Tools, Addison-Wesley.2.Michael L. Scott, Programming Language Pragmatics, Elsevier.3.Andrew W. Appel, Modern Compiler Implementation in C/Java, Cambridge University Press.4.Keith D. Cooper and Linda Torczon, Engineering a Compiler, Elsevier.5.Allen I. Holob, Compiler Design in C, Prentice-Hall.6.Steven S. Muchnik, Advanced Compiler Design and Implementation, Elsevier.7.Randy Allen and Ken Kennedy, Optimizing Compilers for Modern Architectures, Elsevier.8.Santanu Chattopadhyay, Compiler Design, Prentice Hall of India Pvt. Ltd.