

Syllabus:-

- ① Steps of Compilation (see Ch, 1).
With Example
- ② Regular language, Grammar, Expression,
CFG, CFL, NFA \rightarrow DFA conversion,
Regular Expression \rightarrow NFA/DFA.
- ③ Ambiguity, $\&$ Left-Right recursion,
First(), Follow(), left Factoring.
- ④ Recursive Defend Parsing
 \rightarrow Drawbacks.
Predictive Parsing & its grammar
- ⑤ $LL(1) \rightarrow$ First() & Follow(),
Predictive Parsing Table formation.
Using Predictive Parsing checking of
 $LL(1)$ grammar.
- ⑥ Stream Parsing - using PP Table.
- ⑦ Bottom Up Parsing \rightarrow Handle, Handle Pruning
- ⑧ $LR(0)$ / SLR Automata \rightarrow Item, Goto Function.
- ⑨ Using SLR Automata how to perform
Bottom Up Parsing (Pg-228)
- ⑩ Intermediate Code Generation
 \rightarrow Directed Acyclic Graph
 \rightarrow Three Address Code
 \rightarrow Different Representation of 3-Add. code.

(11) Short Note :-

(i) Lex

(ii) YACC

(iii) Activation Record

(iv) Symbol Table.

(*) Importance is Syntax Analysis.

(12) Operator Precedence Parsing.

(*) Follow the Book's PDF.
(Ullman).