| UNIT- I | INTRODUCTIONANDLEXICALANALYSIS | Hrs |
|---|---|---|
| Introduction:LanguageProcessors-PhasesofaCompiler-TheScienceofBuildingCompilerApplicationsofCompilerTechnology-Cousinsofacompiler-CompilerConstruction Tools, Lexical Analysis: The Role of the Lexical Analyzer-Specification ofTokens-RecognitionofTokens-Finite Automata | | 12 |
| **UNIT- II** | **SYNTAXANALYSIS** | **Hrs** |
| Syntax Analysis: Role of the Parser- Writing a Grammar - Top Down Parsing - RecursiveDescent Parsing - Predictive Parsing - Bottom Up Parsing - Shift Reduces Parsing -LRParsers-SLRParser-CLR Parser | | 12 |
| **UNIT- III** | **INTERMEDIATECODEGENERATION** | **Hrs** |
| Syntax-Directed Translation: Syntax-Directed Definitions - Applications of Syntax -Directed Translation - Syntax-Directed Translation Schemes -Intermediate CodeGeneration-TypesofThreeAddressCode-TypeChecking-ControlFlowStatements-Switch Statements – Procedures - Backpatching | | 12 |
| **UNIT- IV** | **CODEGENERATION** | **Hrs** |
| Code Generation: Issues in the Design of a Code Generator - Basic Blocks and FlowGraphs-OptimizationofBasicBlocks-PeepholeOptimization-RegisterAllocationandAssignment Optimal Code Generation for Expressions - Dynamic Programming Code –Generation | | 12 |
| **UNIT- V** | **CODEOPTIMIZATION** | **Hrs** |
| IntroductiontoOptimization:Background-ScopeofOptimization-LocalandGlobalOptimization - Inter-procedural Optimization. Dataflow Analysis: Iterative Data FlowAnalysis- Static Single AssignmentForm - Inter-procedural Analysis | | 12 |
| | | **Total:60Periods** |