
principle of compiler design by ullman pdf download

Subject Code	Subject Name	Credits
CSE2021	SEM-II, Elective-IV, Advanced Compiler Design	

Module	Detailed content	Hours
1	Source Program Analysis Analysis of source program, Phases of compiler, Grouping of Phases, Compiler construction Tools, Lexical Analysis, Language for Lexical Analyzer, Role of parser, Context free Grammars, Writing a grammars, Predictive Parser-LR Parser	9
2	Intermediate Code Generation Intermediate Language, Declarations, Assignment statements, Boolean Expressions, Case Statements, Back Patching, Procedure calls	7
3	Basic Optimization Constant Expression Evaluation, Scalar Replacement of Aggregates, Algebraic simplifications and Re-association, Value Number, Copy Propagation, Common Sub-expression Elimination, Loop invariant Code motion, Partial Redundancy Elimination, Redundancy Elimination and Re-association, Code Hoisting, Induction Variable optimization, Unnecessary Bounds Checking Elimination	8
4	Procedure Optimization and Register Allocation Tail-call optimization and Tail-Recursion Elimination, Procedure Integration, Inline Expansion, Leaf Routine optimization and shrink wrapping, Register allocation and assignment, Graph coloring, Unreachable Code Elimination, Straightening- If simplifications, Loop Simplifications, Loop inversion, Un-switching, Branch optimizations, Tail merging or cross jumping, Conditional moves, Dead code Elimination, Branch Prediction, Machine Idioms and Instruction combining	8
5	Code Generation Issues in the Design of code generator, The Target Machine, Runtime Storage management , Next-use information, A simple code generator, DAG Representation of Basic Blocks, Peephole Optimization, Generating code from DAG's	8

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