

GANPAT UNIVERSITY
U. V. PATEL COLLEGE OF ENGINEERING
DEPARTMENT OF COMPUTER ENGINEERING/ INFORMATION TECHNOLOGY
ACADEMIC YEAR: JULY-DEC 2020
2CE701/2IT701: COMPILER DESIGN
FIRST INTERNAL EXAMINATION SYLLABUS SEPT. 2020

1. Introduction
2. Application of Compiler
3. Characteristics of Good Compiler
4. Modules with compiler with example
5. Phases of Compiler with example
6. Lexical Analysis with example
7. Syntax Analysis
 - Grammar
 - Types of Grammar
 - Derivation Tree
 - Restriction on CFG (Elimination of Useless symbol, Elimination unit production, Elimination of NULL production, Elimination of Cycle)
 - Parser
 - Top Down Parser
 - Issues of CFG (Left Recursion)
8. Intermediate code generation, 3 address code, basic block, control flow graph, optimization, types of optimization