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RGPV B.Tech – CSE 5th Semester Syllabus

CS-504-B: Object Oriented Programming

Unit I: Programming Basics

- Character set, constants, variables, keywords, identifiers
- Type declaration, arithmetic operations, type conversions
- Storage classes, hierarchy of operations

Unit II: Control Structures

- Decision control: if, if-else, switch, conditional operators
- Looping: while, do-while, for, nested loops
- Break, continue, goto, exit statements

Unit III: Arrays and Strings

- 1D and 2D arrays, initialization, memory mapping
- String handling functions: strlen, strcpy, strcat, strcmp
- 2D array of characters

Unit IV: Structures, Unions, Preprocessor

- Structure declaration, access, array of structures
- Union usage and initialization
- Preprocessor directives: #define, #include, #if, #pragma

Unit V: OOP Concepts

- Object, class, abstraction, encapsulation
- Inheritance, polymorphism, binding, message passing
- Advantages and applications of OOP
- Simple program structure, compiling and linking



Download Official Syllabus

- [RGPV Notes – CS-504-B Full Breakdown](#)

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