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RGPV B.Tech – CSE 3rd Semester Syllabus

📚 Core Subjects

ES-301: Energy & Environmental Engineering

Covers energy systems, sustainability, ecosystems, biodiversity, pollution control, and environmental ethics. Includes case studies and disaster management.

CS-302: Discrete Structure

Topics include logic, set theory, relations, functions, combinatorics, graph theory, and algebraic structures. Foundation for theoretical CS and algorithms.

CS-303: Data Structures

Covers arrays, linked lists, stacks, queues, trees, graphs, sorting and searching algorithms. Emphasis on time complexity and implementation in C/C++.

CS-304: Digital Systems

Boolean algebra, combinational and sequential circuits, flip-flops, counters, multiplexers, and memory devices. Includes circuit simplification and design.

CS-305: Object-Oriented Programming & Methodology

Concepts of classes, objects, inheritance, polymorphism, encapsulation, and abstraction. Implementation using C++ or Java.

🧪 Labs & Practicals

CS-306: Data Structures Lab

Hands-on implementation of stacks, queues, trees, and sorting algorithms. Includes complexity analysis and debugging.

CS-307: OOP Methodology Lab

Practical sessions on class design, inheritance, file handling, and mini-projects using C++/Java. Emphasis on modular coding.

CS-308: Digital Systems Lab

Experiments with logic gates, flip-flops, counters, and multiplexers using simulation tools and breadboard setups.

📥 Download Official Syllabus

- [Career Shiksha – CSE 3rd Sem Breakdown](#)
- [SATI Vidisha Official PDF](#)
- [RGPV Scheme Portal](#)