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RGPV B.Tech – CSE 6th Semester Syllabus

📚 Core Subjects

CS-601: Machine Learning

Covers supervised and unsupervised learning, regression, classification, neural networks, CNNs, RNNs, SVMs, and reinforcement learning. Includes TensorFlow/Keras implementation.

CS-602: Computer Networks

Network architecture, OSI & TCP/IP models, data link protocols, routing algorithms, congestion control, transport layer, and network security.

🎯 Departmental Elective (Choose One)

CS-603(A): Advanced Computer Architecture

Pipelining, superscalar architecture, cache memory, multiprocessors, and parallel computing models.

CS-603(B): Computer Graphics & Visualization

Graphics pipeline, transformations, rendering, shading, OpenGL, and visualization techniques.

CS-603(C): Compiler Design

Lexical analysis, parsing, syntax trees, semantic analysis, code generation, and optimization.

🌐 Open Elective (Choose One)

CS-604(A): Knowledge Management

Knowledge acquisition, representation, sharing, and decision support systems.

CS-604(B): Project Management

Project lifecycle, planning, scheduling, risk analysis, and quality assurance.

CS-604(C): Rural Technology & Community Development

Sustainable tech solutions for rural areas, community engagement, and development models.

🧪 Labs & Practicals

CS-605: Data Analytics Lab

Hands-on with data preprocessing, visualization, ML models, and performance evaluation using Python libraries.

CS-606: Skill Development Lab

Focus on communication, teamwork, problem-solving, and professional skills through activities and workshops.

📥 Download Official Syllabus

- [RGPV Official PDF – CSE 6th Sem](#)
- [Career Shiksha Breakdown](#)