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RGPV B.Tech – CSE 8th Semester Syllabus



Core Subject

CS-801: Internet of Things

IoT architecture, sensors, actuators, protocols (MQTT, CoAP), microcontrollers (Arduino, Raspberry Pi), cloud integration, and security. Includes smart home and industrial case studies.



Departmental Elective (Choose One)

CS-802(A): Blockchain Technologies

Distributed ledgers, smart contracts, consensus algorithms, cryptographic primitives, and blockchain platforms.

CS-802(B): Cloud Computing

Virtualization, cloud models (IaaS, PaaS, SaaS), AWS/Azure, containers, and DevOps integration.

CS-802(C): High Performance Computing

Parallel computing, GPU programming, MPI/OpenMP, and performance optimization.

CS-802(D): Object-Oriented Software Engineering

OO principles in software design, UML, design patterns, and agile development.



Open Elective (Choose One)

CS-803(A): Image Processing & Computer Vision

Image enhancement, segmentation, feature extraction, and vision algorithms.

CS-803(B): Game Theory with Engineering Applications

Strategic decision-making, Nash equilibrium, and applications in networks and economics.

CS-803(C): Internet of Things (Open Elective)

Same as CS-801, offered as an open elective for non-CSE branches.

CS-803(D): Managing Innovation & Entrepreneurship

Innovation models, startup planning, funding strategies, and business incubation.



Labs & Practical

CS-804: Departmental Elective Lab

Based on chosen CS-802 elective. Includes hands-on implementation and mini-projects.

CS-805: Open Elective Lab

Based on chosen CS-803 elective. Includes practical exercises and case studies.

CS-806: Major Project – Phase II

Final implementation, testing, documentation, and viva. Includes deployment and presentation.



Download Official Syllabus

- [RGPV Official PDF – CSE 8th Sem](#)
- [Career Shiksha Breakdown](#)

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