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## RGPV B.Tech – CSE 7th Semester Syllabus



### Core Subject

#### CS-701: Software Architectures

Covers architectural styles, design patterns, ADLs, microservices, middleware, and documentation strategies. Includes UML, Struts, Hibernate, Node.js, and J2EE.



### Departmental Elective (Choose One)

#### CS-702(A): Computational Intelligence

Neural networks, fuzzy logic, evolutionary algorithms, and hybrid systems. Includes learning models and feedback networks.

#### CS-702(B): Deep & Reinforcement Learning

Covers CNNs, RNNs, Q-learning, policy gradients, and deep RL frameworks.

#### CS-702(C): Wireless & Mobile Computing

Mobile IP, ad hoc networks, routing protocols, and wireless standards.

#### CS-702(D): Big Data

Hadoop, Spark, NoSQL, data lakes, and distributed storage systems.

## **Open Elective (Choose One)**

### **CS-703(A): Cryptography & Information Security**

Symmetric/asymmetric encryption, hashing, digital signatures, and security protocols.

### **CS-703(B): Data Mining & Warehousing**

Association rules, clustering, OLAP, ETL, and warehouse architecture.

### **CS-703(C): Agile Software Development**

Scrum, Kanban, XP, lean principles, and agile project management.

### **CS-703(D): Disaster Management**

Risk assessment, mitigation strategies, and emergency response planning.

## **Labs & Practicals**

### **CS-704: Departmental Elective Lab**

Based on chosen CS-702 elective. Includes hands-on implementation and mini-projects.

### **CS-705: Open Elective Lab**

Based on chosen CS-703 elective. Includes practical exercises and case studies.

### **CS-706: Major Project – Phase I**

Project proposal, requirement analysis, design documentation, and initial development.

## CS-707: Internship Evaluation – Phase III

Report submission, presentation, and viva based on industrial training.



### Download Official Syllabus

- [RGPV Official PDF – CSE 7th Sem](#)
- [Career Shiksha Breakdown](#)

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