

B.Tech CSE – Enterprise Systems

(In Association with Red Hat Academy)

Empowering Future Technologists with Industry-Driven Curriculum

Shri Vaishnav Vidyapeeth Vishwavidyalaya (SVVV) proudly introduces the **B.Tech in Computer Science & Engineering – Enterprise Systems**, a cutting-edge specialization designed to bridge the gap between academic learning and real-world enterprise technology. In collaboration with **Red Hat Academy**, this program offers students a unique opportunity to master the tools, platforms, and methodologies that power modern IT infrastructures.

This specialization is tailored for students who aspire to become proficient in **Linux Administration, DevOps, Cloud Computing, Containerization, and Enterprise Automation**—all taught by **industry experts** with hands-on experience in deploying and managing enterprise-grade systems.

Courses Offered

Students enrolled in this program will gain access to a rich suite of Red Hat technologies and complementary skill sets:

 Red Hat Academy Modules

Delivered by seasoned industry professionals, our curriculum includes:

- **Linux Administration I & II**
- **Red Hat Ansible Automation**
- **DevOps Practices**
- **Red Hat OpenShift (Kubernetes Platform)**
- **Red Hat OpenStack (Cloud Infrastructure)**
- **Docker & Container Technologies**
- **Red Hat Microservices Architecture**

These modules are delivered by seasoned professionals from the industry, ensuring that students receive practical insights and real-world exposure.

Red Hat Certification Advantage

SVVV offers **Red Hat Certifications at discounted rates**, making globally recognized credentials more accessible to our students. Over **50 students have already earned Red Hat certifications**, validating their expertise and enhancing their employability.

Additional Skill Tracks

To ensure holistic development and multi-domain readiness, students also receive training in:

- **Java & Python Full Stack Development**
- **Artificial Intelligence (AI)**
- **Machine Learning (ML)**
- **Deep Learning**
- **Natural Language Processing (NLP)**
- **Computer Vision**
- **Generative AI**

These courses are integrated into the curriculum to complement enterprise systems training and prepare students for emerging tech roles.

Red Hat Academy: A Global Force in Open Source Education

Red Hat Academy is a worldwide initiative that transforms academic institutions into hubs of enterprise-ready talent. With a presence in **100+ countries and 40,000+ institutions**, Red Hat Academy delivers:

- **Globally standardized curriculum** in Linux, cloud, containers, and automation
- **Hands-on labs and performance-based training**
- **Digital credentials via Credly**
- **Access to the Red Hat Academy Talent Network**, connecting students with employers globally

More than **90% of Fortune 500 companies use Red Hat technologies**, making Red Hat certifications a powerful asset for launching a global career.

Industry-Academia Collaboration: SVVV x Red Hat

Our partnership with Red Hat Academy exemplifies the best of **industry-academia synergy**:

- Curriculum aligned with enterprise demands
- Real-world training by certified professionals
- Flexible learning formats and virtual labs
- Global certification pathways
- Placement support through Red Hat’s Talent Network

This collaboration ensures that SVVV graduates are not just academically qualified but **industry-certified and globally employable**.

Career Opportunities: Red Hat Certified, Industry-Ready

Graduates of this program are equipped for high-demand roles across domains:

| Role | Key Skills |
|---------------------------------|---|
| Linux System Administrator | RHCSA, RHCE, Shell scripting, system security |
| DevOps Engineer | Ansible, CI/CD pipelines, Jenkins, Git, automation tools |
| Cloud Infrastructure Engineer | OpenStack, Kubernetes, virtualization, cloud orchestration |
| Site Reliability Engineer (SRE) | Monitoring, incident response, automation, scalability |
| Container Platform Engineer | Docker, Podman, OpenShift, Kubernetes |
| Microservices Developer | REST APIs, containerization, orchestration, service mesh |
| AI/ML Engineer | Python, TensorFlow, Scikit-learn, NLP, Computer Vision |
| Full Stack Developer | Java, Python, React, Node.js, databases, deployment pipelines |

Students can also explore opportunities within **Red Hat's global ecosystem**, including:

- Red Hat corporate roles in engineering, consulting, and support
- Partner companies seeking Red Hat-certified professionals
- Startups and enterprises adopting open-source technologies

Red Hat's **Talent Network** allows students to connect directly with employers, showcase their certifications, and apply for roles across geographies.

Red Hat-certified professionals are in demand at companies like **IBM, Red Hat, Infosys, Accenture, TCS, Wipro, Deloitte**, and **global startups** adopting open-source technologies.

Red Hat Inc. – The Global Leader in Enterprise Open Source

Overview

Red Hat Inc. is a pioneering American software company that has redefined the landscape of enterprise IT through its unwavering commitment to **open-source innovation**. Founded in **1993** by **Bob Young** and **Marc Ewing**, Red Hat began as a small catalog business selling Linux accessories and evolved into a global powerhouse in enterprise software. Headquartered in **Raleigh, North Carolina**, Red Hat operates in **over 40 countries** with **100+ offices worldwide**, including a strong presence in India, Europe, Asia-Pacific, and Latin America.

Since its acquisition by **IBM in 2019** for **\$34 billion**, Red Hat continues to function as an **independent subsidiary**, maintaining its open-source ethos while expanding its reach across hybrid cloud, automation, and AI platforms.

Core Products and Technologies

Red Hat's portfolio includes some of the most widely adopted enterprise-grade technologies:

- **Red Hat Enterprise Linux (RHEL)** – The flagship operating system used by thousands of enterprises globally.
- **Red Hat OpenShift** – A Kubernetes-based container platform for cloud-native applications.
- **Red Hat Ansible Automation Platform** – A powerful tool for IT automation and configuration management.

- **Red Hat OpenStack** – Infrastructure-as-a-Service (IaaS) for building private and public clouds.
- **Red Hat JBoss Middleware** – Tools for building and deploying Java applications.
- **Red Hat Ceph Storage** – Scalable, software-defined storage for cloud environments.

These platforms are trusted by **90% of Fortune 500 companies**, including IBM, Dell, HP, Oracle, and Accenture.

Global Presence and Impact

Red Hat's influence spans continents, industries, and communities:

- **Offices in 40+ countries**, including India, China, Germany, Brazil, and the UK
- **19,000+ employees** worldwide
- **Major partnerships** with Infosys, TCS, HCLTech, Microsoft, Google, and Capgemini
- **Second-largest contributor to the Linux kernel**, after Intel

Red Hat's technologies power mission-critical systems in **finance, healthcare, government, telecommunications, and energy**. Its open-source philosophy has catalyzed innovation in **AI, cloud computing, and edge infrastructure**.

Achievements and Recognition

Red Hat has consistently been recognized for its innovation and leadership:

- Named a **Leader in Multicloud Container Platforms** by Forrester in 2025
- Surpassed **\$1 billion in revenue** in 2012 and **\$2 billion** by 2016
- Hosts the annual **Red Hat Summit**, a global event celebrating open-source innovation
- Sponsors community-driven projects like **Fedora, CentOS, and oVirt**

Red Hat's commitment to **transparency, collaboration, and community development** is embodied in its "Open Source Way"—a guiding philosophy that influences every product and partnership.

Future Outlook

Red Hat continues to lead the charge in **AI integration, sovereign cloud, and digital independence**. Its platforms now support **Generative AI workloads**, model serving, and inference optimization—making it a key player in the next wave of enterprise transformation.

With its global reach, open-source philosophy, and enterprise-grade solutions, Red Hat remains a **defining technology company of the 21st century**—empowering organizations and individuals to innovate without boundaries.

Why Choose SVVV's Enterprise Systems Program?

- Industry-aligned curriculum with Red Hat Academy
- Hands-on training by certified professionals
- Access to over 50 Red Hat certifications
- Multi-domain skill development in AI, ML, and Full Stack
- Enhanced placement opportunities
- Affordable certification pathways

Ready to build the future of enterprise technology? Join the **B.Tech CSE – Enterprise Systems** program at SVVV and become a certified, job-ready professional in the world of open-source innovation.