B.Tech. in Computer Science & Engineering with Specialization in Enterprise System

(In association with Red Hat Academy)

About Program

Enterprise systems (ES) are large-scale application software packages that support business processes, information flows, reporting, and data analytics in complex organizations. While ES are generally packaged enterprise application software (PEAS) systems they can also be bespoke, custom developed systems created to support a specific organization's needs. For this specialization, University joins hands with **Red Hat**. **Red Hat, Inc**. is an American multinational software company providing open-source software products to the enterprise community. The Emerging streams of Enterprise System are:

1. Enterprise Resource Planning (ERP)
2. Supply Chain Management (SCM)
3. Customer Relationship Management (CRM)
4. Business Process Reengineering (BPR)
5. Big data,
6. Business analytics
7. Cloud computing
8. IS security,
9. Project management and IT strategy

About Red Hat

The world's leading provider of open source, enterprise IT solutions

More than 2 decades ago, Red Hat had a spark of an idea—a vision for developing software differently. They believed that collaboration with an ecosystem of IT leaders, open source advocates, developers, and partners could create a better foundation for the future of IT—Red Hat® Enterprise Linux®. Today they are working in the field of **Operating Systems**, **Clouds**, **Middleware**, **Storage**, **Virtualization**, **Mobile** and **IT Management**.
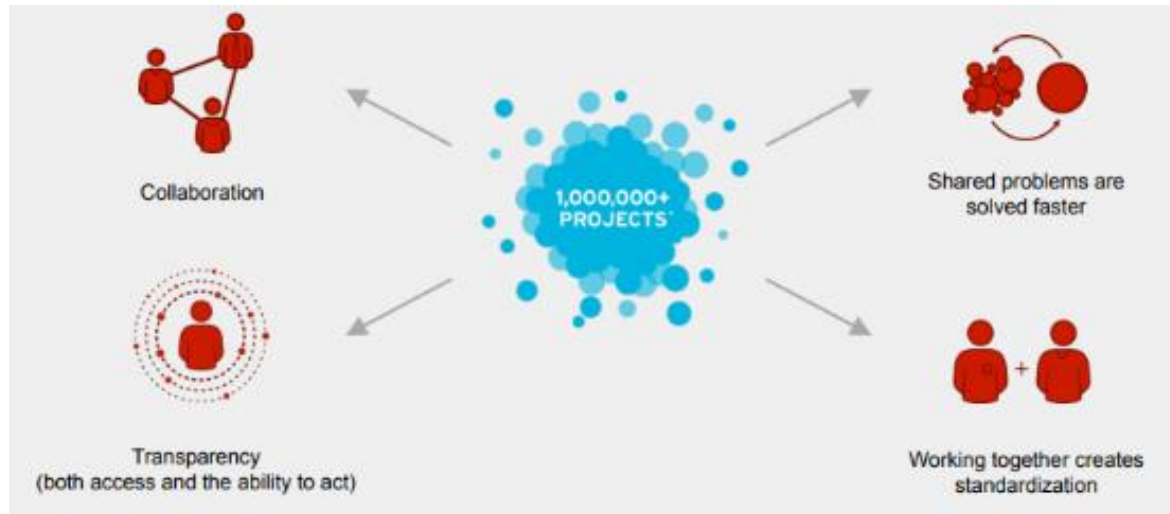
More than 90% of the fortune 500 uses Red Hat products and solutions. It is the first $2 Billion **Open Source Company** in the World.

The Open Source Culture

The need of the Program

The Importance of Linux and Open Source in the IT market is growing rapidly, so Proposed Program in Association with Red Hat will enhance career prospects of our graduates.

1. As per Open source job market booming." cio.com. 2016: "*74% of hiring managers say that skilled, open source developers are a must-have.*"
2. Demand for Linux Talent Stays strong: Report." dice.com. 2016: "*87% of hiring managers say it's difficult to find skilled & certified open source talent.*"
3. TomsITPro.com, "Best Linux Certifications For 2016: "*October 2015: "82% of Linux job postings are seeking Red Hat Certified Professionals.*"
4. Red Hat Linux System Administrator salaries are 10% higher than other Linux system administrators.
5. Red Hat System Administrators get paid 31% more than other System Administrators.
6. 100% of airlines in the fortune Global 500 rely on Red Hat.
7. 100% of telcos in the fortune Global 500 rely on Red Hat.
8. 100% of health-care companies in the fortune Global 500 rely on Red Hat.
9. 100% of commercial banks in the fortune Global 500 rely on Red Hat.

Specialization Program includes following benefits:

1. Industry Relevant curriculum jointly developed with academicians and Red Hat Professionals
2. Courseware, books, and material for students jointly prepared with academicians and Red Hat Professionals
3. Skilling students in-depth with concepts leading to specialization
4. Certification exam at 50% discounts
5. Integrated tests and quizzes
6. Robust lab environment
7. Access to platforms that connect you to Red Hat communities and employment connections

Red Hat Labs

Red Hat Training classes are highly interactive and thus depend on a well-supported classroom. They use automated classroom setup procedures to ensure a consistent and efficient training environment.

- **Red Hat Administration Lab**

  Learn to deploy, administer, manage, and secure Red Hat Enterprise Linux (RH124, RH134, and RH254).

- **Red Hat Open Stack Administration Lab**

  Support organizational movement to the cloud (CL110, DO180).

- **Red Hat JBoss Enterprise Application Lab**

  Master Middleware Applications (JB183 and JB283).

The certification exams available after undergoing the above modules are;
- EX200 (Red Hat Certified System Administrator (RHCSA) Exam)
- EX300 (Red Hat Certified Engineer (RHCE) Exam)
- EX183 (Red Hat Certified Enterprise Application Developer Exam)
- EX283 (Red Hat Application Development Exam)
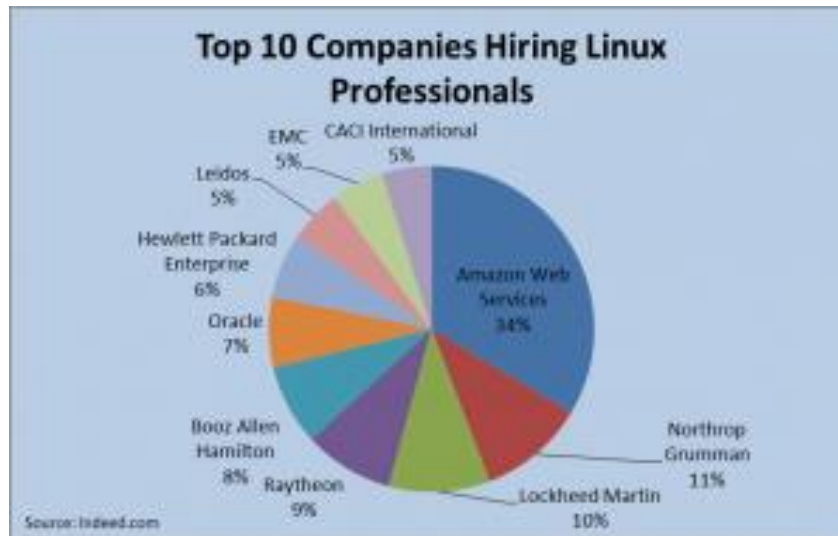
Career Opportunity

Nearly all hiring managers are looking to recruit Linux professionals. Furthermore, Linux recruiting has been rising steadily. There many FORTUNE 500 company today migrated to Linux and open source software. Robert Half Technology 2016 Salary Guide survey shows that

salary range is for general System Admins/Developers, but if they have Linux skills, then they earn an 8% premium

Types of Linux Jobs

The top 15 job titles on Dice.com that mention Linux in their postings are:

1. DevOps Engineer
2. Software Engineer
3. Java Developer
4. Systems Engineer
5. Systems Administrator
6. Senior Software Engineer
7. Network Engineer
8. Python Developer
9. Software Developer
10. Linux Administrator
11. Linux Engineer
12. Senior Java Developer
13. C++ Developer
14. Middleware Engineer
15. Open Source Developer

The future is open. All leading close source companies will turn to the biggest open source companies in a matter of decades. India plays the major role in the transformation of Open Source. Over the period of time, the government organizations and private limited will turn up to

the cost-effective software solutions. The only way for that is to migrate to Linux. The number of Linux users increases that may tend to open the new wave for more opportunities in Linux and other Open source software in India and outside of India.