## Contents of the Course :

### Computer Hardware and Software :
- Select and install components for building, repairing, or upgrading personal computers.
- Perform preventive maintenance and troubleshooting on Pcs.
- Install and manage Windows operating systems.
- Configure computers for network communication and internet/cloud services.
- Manage laptops, mobile devices, and printers.
- Troubleshoot hardware/software issues.

### Network Administration :
- Networking basics, routers, routing, switching, WAN, and wireless technologies.
- Build LANs, perform configurations for routers and switches.
- Configure routers, switches, and end devices.
- VLANs, Wireless LANs and Inter-VLAN routing.
- Work with routers and multilayer switches
- Configuring managing and maintain VPN Networks.

### Operating System and Server Administration (Linux & Windows) :
- Manage physical storage and configure software components/services.
- Install using Kickstart, manage file systems, scheduled jobs, network file systems, SELinux, and firewalls.
- Deploy and manage network servers (DNS, MariaDB, Apache, Postfix, NFS, SMB, iSCSI) and use Bash scripting for automation.

### Web Services / Cloud Services :
- Understand cloud concepts, economics, and infrastructure.
- Design, build, and manage cloud environments.
- Implement event-driven scaling, automation, decoupling, and troubleshooting.
- Apply large-scale design patterns and case studies.

### Cyber Security :
- Security Concepts, policies and procedures
- Attackers and Their Tools
- Endpoint Protection
- Trojan's backdoors and countermeasures
- Advanced hacking concepts
- IDS & IPS firewalls and honeypots

### General and Audit Courses :
- Induction Program
- Environmental Science
- Essence of Indian Knowledge and Tradition
- Indian Constitution
- Entrepreneurship and Start-ups

Detailed Curriculum and Guidelines are available on Website
**www.kgtti.com**

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### Course Duration:
One-year Full Time (Two Semesters) includes Internship and Major Project work.

### Examination:
- Internal assessments are conducted by KGMSDC
- Semester exams are conducted in association with VTU

### Awarding Certificate:
Post Graduate certificate program in IT & networking engineering marks cards and the PG certificate is awarded jointly by Visvesvaraya Technological University and KGMSDC Society.

### Programme Outcomes and Career Opportunities:
Upon successfully completing the Post Graduate Certificate Program in IT & Networking Engineering, graduates are well-prepared to operate independently in the industry. The Placement Cell offers assistance to help secure job opportunities. There are numerous opportunities in IT companies, banks, and computer departments across various organizations. We encourage PG students to pursue specialized global certifications from Cisco, RedHat, AWS and Cyber Security to further enhance their employment prospects. Careers in IT networking offer a diverse range of roles, including Network Support Specialist, Network Administrator, and Network Engineer.

### Courses Offered in association with Industry Partners :

**CISCO Networking Academy** | **RedHat Training Academy** | **AWS Academy**

### For Registration Contact:
## KGTTI Kalaburagi
Address : Near Chandrashekar Patil Stadium,
Behind BEO Office, Rajapur Road,
Kalaburagi – 585 103 (Karnataka)
Tel: 08472-295501   Mobile: +91-9071423004
E-Mail : director.kalburgi@kgtti.com | foeassistant@gmail.com

www.kgtti.com

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## The future is connected. Are you?

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Offers

**Post Graduate Certificate Program in IT & Networking Engineering**

At

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**COURSE LAUNCH Aug 2024 Get your Seat**

## VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Visvesvaraya Technological University (VTU) is one of the leading technological universities in India. Established in 1998, VTU has played a pivotal role in transforming the educational landscape. Managed by a dedicated team, VTU focuses on outcome-based education, industry-institute interactions, and digital transformation. It offers a wide range of undergraduate and postgraduate programs across affiliated colleges, emphasizing both conventional and non-conventional energy resources.

VTU's central placement system ensures that students receive quality education and job opportunities. Additionally, VTU promotes entrepreneurial leadership through its incubation centres and equips graduates with the skills needed for positions in both public and private sectors

## KGTTI

The Karnataka-German Multi Skills Development Centre (KGMSDC), an autonomous registered society established by the Government of Karnataka with technical support from German International Services (GIZ InS), has set up Karnataka German Technical Training Institutes (KGTTIs) in Bengaluru, Kalaburagi, Belagavi, Mangaluru, Hubballi, Mysuru, and extension centers in Gouribidanur and Karkala. The KGTTIs aim to provide comprehensive vocational training across various industrial technical fields.



The mission of KGTTI is to develop skills and trades through multidisciplinary programs, aspiring to become a world-class training center aligned with global industry requirements. KGTTI offers both long and short-term technical training, consultancy services, and various industrial services, including tool and die making. The center maintains independence and flexibility in course design and certification, with efforts to collaborate with industry partners and international certification bodies for joint certification.

Both organizations have collaborated to offer a postgraduate certificate program at KGTTI Kalaburagi center.

## Course Details  Course Objective:

**Computer Hardware and Software :**

This course covers computer hardware and software details, including advanced concepts such as security and networking. Students will learn to describe internal components, assemble computer systems, install operating systems, and troubleshoot using diagnostic tools.

**Networking Skills :**

Students completing the course will be able to connect to the Internet, share resources in a networked environment, and apply decision-making techniques to resolve networking issues. They'll also gain expertise in configuring switches, routers, and improving network performance and security.

**System Administration :**

The curriculum introduces key command-line concepts and enterprise-level tools. Students delve deeper into Linux administration, covering file systems, logical volumes, selinux, firewalling, and troubleshooting.

**Advanced Network Servers :**

The final course focuses on deploying and managing network servers, including DNS, mariadb, Apache HTTPD, Postfix SMTP, NFS, SMB, iscsi, and advanced networking configurations. Bash shell scripting is used for automation and troubleshooting.

**Cloud Computing :**

Students develop cloud skills through an overview of concepts, core services, security, and architecture. The course prepares them for the AWS Certified Cloud Practitioner certification, emphasizing distributed system design and implementation.

**Cyber Security:**

Students are exposed to all of the knowledge required to detect, analyze, and escalate basic cybersecurity threats using common open-source tools. Foster a strong understanding of cyber security ethics and best practices.

## Entry Qualifications and Eligibility Criteria:

Graduation from any University in Science, Computer Science, Information Technology, Computer Applications, Cloud Computing, Engineering and Technology. With at least 50% marks for General candidates and 45% marks for SC/ST and OBC candidate

### Documents required to be submitted at the time admission:

- ✓ SSLC / 10th MARKS CARD
- ✓ 12th / 2nd PUC MARKS CARD
- ✓ All the Reservation Certificates with RD Number /Caste (Category, Income, Hyderabad-Karnataka (HK) Certificates.) Whichever candidate wants to claim.
- ✓ Details of studied in Karnataka for claiming reservations.
- ✓ Aadhaar card
- ✓ Degree Marks Card, Degree Completion Certificate BCA, BSc IT, BE, B, Tech, or Equivalent
- ✓ Candidate Latest Passport size photograph (4nos) and softcopy in jpg format.

### Selection Process:

Direct Registration and application to KGMSDC entrance test and Counselling.

**Course Fee: Rs 70,000/- + GST + Stationery and Hostel Charges.**