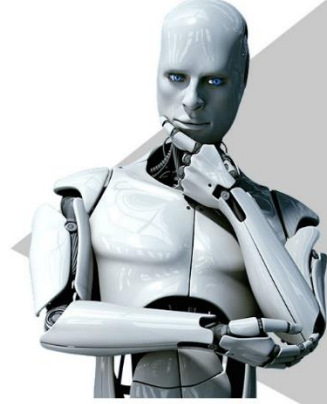


# STUCORNER

Development | Training | Consultancy

An ISO 9001:2008 Company



## CCNA COURSE SYLLABUS

### **CIT 1121, *Networking Fundamentals*, 3 credit hours**

Information on current and emerging internetworking technologies, including:

- Open Systems Interconnect (OSI) reference model
- Binary numbers
- Hexadecimal numbers
- Address classes
- Internet Protocol (IP) addressing and subnetting
- Protocols
- Standards
- Basic electrical concepts
- Cabling techniques

### **CIT 1122, *Routing Protocols and Concepts*, 3 credit hours**

Practical skills required to verify and troubleshoot basic router configurations. Includes:

- Router configuration
- Distance vector and link state routing protocols
- Switching methods
- Hub technology
- Basic flow control methods
- Layer 2 data link addressing
- Layer 3 Internet Protocol (IP) addressing



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## **CIT 1123, LAN Switching and Wireless, 3 credit hours**

- Routing techniques
- Local Area Networks (LANs)
- Virtual Local Area Networks (VLANs) design, configuration and maintenance
- LAN configuration
- Spanning Tree Protocol (STP)
- Access Control Lists (ACLs)
- Internetwork Packet Exchange (IPX) protocols
- Interior Gateway Routing Protocol (IGRP)
- Network troubleshooting

## **CIT 1124, Accessing the WAN, 3 credit hours**

**Wider Area Network (WAN) topics, including:**

- Frame encapsulation
- Signaling standards
- WAN design
- Point-to-Point (PPP)
- Integrated Services Data Networks (ISDN)
- Frame relay and network management



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