

**Network Engineer****Certificate****25 credits**

The Network Engineer Certificate prepares students with skills for Local Area Network (LAN) and Wide Area Network (WAN) system administration. Students will experience the essential skills of networking with depth of study in TCP/IP, routing, switching, logical addressing, and troubleshooting methodologies. Key topics include IPv6, subnetting, intermediate routing protocols, command-line interface configuration of switches, Ethernet switching, and Virtual LANs (VLANs) utilizing Cisco hardware platforms and protocols. The certificate provides students with an understanding of the concepts, principles, and techniques required in the topological design, implementation, and maintenance of LANs and WANs.

**CERTIFICATE REQUIREMENTS****25 CREDITS**

<b>Course ID</b>	<b>Course Name</b>	<b>Lec</b>	<b>Lab</b>	<b>Other</b>	<b>Credits</b>
BIT 101	Desktop Support Technician	44	22		5.0
BIT 102	Networking Fundamentals	44	22		5.0
BIT 123	Next-Gen Internet Protocol	44	22		5.0
BIT 135	Network Infrastructure	44	22		5.0
BIT 220	Elements of Project Management	55			5.0