

Course Title	NETWORK INSTALLATIONS
Course Code	CSN 223
Course Purpose and Objectives	<p>This course includes a study of fundamental local area networking concepts, a detailed study of the basics of local area network (LAN) technology and a comparative study of commercially available LAN systems and products. The course will feature a hands-on laboratory implementation of a LAN. The course also aims to enable students to install, wire, setup the operation of computer networks. It will also give students an understanding of basic principles, methods and network installation techniques. Students will understand the basic principles of structured cabling and international standards and they will identify the different components of a network installation. They will also perform a concise description of active network equipment and a detailed technical description of the cable system of a building. They will be able to read network projects and prepare offers for new networks and they will understand the components of LANs and the purpose of each.</p>
Learning Outcomes	<ol style="list-style-type: none"> 1. Demonstrate the ability to install and wire of horizontal and vertical networks and a local connection and main distribution data. 2. Install and configure a LAN operating system. 3. Interconnect computing machines to constitute a LAN. 4. Examine and analyze packets on a LAN transmission medium. 5. Implement LAN auditing functions to enhance the security and integrity of LAN transactions
Course Content	<ul style="list-style-type: none"> • The Basics of LANs • LAN Standards • LAN Transmission Media • LAN Topologies and Protocols • Basic Component Architecture • LAN Operating Systems • Commercially Available LANs • Fundamentals of LAN Design • LAN Installation • Application Software • LAN Management and Control