

NETWORKS LAB #239

COMPUTER ENGINEERING DEPARTMENT

Short Description:



Networks lab comes with 28 high-end computers, network-related devices and simulation applications to facilitate the learning experience of the students, offering an essential area to the students that provides them with the fundamental networking concepts and technologies through intensive focus on the practical skills needed to understand basic networking.

Equipment specifications:

- Dell XPS Tower desktop computers (28 in total)

Name of item	Specification
Desktop computer	Dell XPS 8930 Tower
CPU	8 th Generation Intel Core i7 – 8700K, 6 cores processor @3.7 GHz
RAM	16 GB, 2666 MHz
Storage	SSD KXG50ZNV512G NVMe TOSHIBA DDR4 512 GB
Graphics card	NVIDIA GeForce GTX 1080 8 GB
Operating system	Licensed Windows 10 Home 64-bits



- **Cisco 2900 Series Integrated Services Routers (3 in total)**



The Cisco 2900 Series ISRs offer increased levels of services integration with voice, video, security, wireless, mobility, and data services, enabling greater efficiencies and cost savings. In addition, the platforms support the industries widest range of wired and wireless connectivity options such as T1/E1, T3/E3, xDSL, copper and fiber GE. The Cisco 2900 Series enables deployment in high speed WAN environments with concurrent services enabled up to 75 Mbps. They are designed to address customer business requirements, with a modular architecture that offers increased capacity and performance as network needs grow.

- **Cisco Catalyst 2960 Series Switches (3 in total)**



Cisco Catalyst 2960 Series Switches are a family of fixed-configuration, standalone intelligent Ethernet devices with Power Over Ethernet (PoE) or non-PoE configurations that provide desktop Fast Ethernet and Gigabit Ethernet connectivity, enabling enhanced LAN services for entry-level enterprise, midmarket, and branch office networks. The Cisco Catalyst 2960 LAN Base Series offers integrated security, including Network Admission Control (NAC), advanced Quality of Service (QoS), and resiliency to deliver intelligent services for the network edge.

- **Server rack (1 in total)**

A server rack is a tall structure that can hold many pieces of equipment in one location. This helps keep things organized and maximizes the use of floorspace. It is a structure that is designed specifically to house technical equipment including routers, switches, hubs, and of course, servers. The rack makes it possible to securely hold multiple pieces of equipment in one area. The server rack is made of strong metal and comes with locks on the door to prevent unauthorized access. The door also helps to prevent accidental bumping or touching of power buttons or cables, which could cause problems.



- **Ethernet Cable Plier Cutter Stripper Crimping Tool RJ45 Lan (28 in total)**

Multifunctional network cable pliers, strong and practical, it's a routine tool of modern family in this information age, can make RJ45 network cable connector, RJ11 phone line connector and 4P phone line connector, set all the functions of the network cable pliers, can be convenient to cut, press the line, stripping and other operations.

