Course Title	**IT ESSENTIALS**
Course Code	**CSN 111**
Course Purpose and Objectives	The purpose of this course is to introduce students to computer hardware and software, operating systems, networking concepts, mobile devices, IT security, and troubleshooting. The online course materials will assist students in developing the necessary skills to work as technicians in the field of IT. The specific skills covered are described at the beginning of each chapter. By the end of the course, students will be ready to take the external exams of CISCO Networking Academy, Netacad Exam – IT ESSENTIALS and CompTIA A+ certification exams 220-901 and 220-902, since this course syllabi is aligned with the above subject.
Learning Outcomes	1. Select the appropriate computer components to build, repair, or upgrade personal computers. 2. Install and configure components to build, repair, or upgrade personal computers. 3. Perform troubleshooting on personal computers. 4. Explain how computers communicate on a network. 5. Configure devices to communicate on a network. 6. Explain how to troubleshoot laptops and other mobile devices. 7. Install a printer to meet requirements. 8. Describe virtualization and cloud computing. 9. Install Windows operating systems. 10. Perform management and maintenance of Windows operating systems. 11. Explain how to configure, secure, and troubleshoot mobile, MacOS, and Linux operating systems. 12. Implement basic host, data, and network security. 13. Explain the roles and responsibilities of the IT Professional.
Course Content	- Introduction to Personal Computer Hardware - PC Assembly - Advanced Computer Hardware - Preventive Maintenance and Troubleshooting - Networking Concepts - Applied Networking - Laptops and Other Mobile Devices - Printers - Virtualization and Cloud Computing - Windows OS Installation - Windows OS Configuration - Mobile, Linux, and OSX Operating Systems - Security - The IT Professional