Syllabus

GENERAL INFORMATION
Course Title: IT Fundamentals
Code: CCNA1000
Contact Hours: 43 Hours
Academic Term: February 7, 2022 – March 14, 2021
Professor: Joel Vargas Ramos
E-Mail: jvargas@passwordpr.com

COURSE DESCRIPTION

Successful students will have the knowledge required to assemble components based on customer requirements, install, configure and maintain devices, PCs and software for end users, understand the basics of networking and security / forensics, property and safely diagnose, resolve and document common hardware and software issues, apply troubleshooting skills, provide appropriate customer support, and understand the basics of virtualization, desktop imaging, and deployment.

OBJECTIVES

This course will teach the student the fundamental principles of installing, configuring, and troubleshooting PC, mobile, printer, and networking device hardware and help you to progress a career in PC support. It will prepare the student take the CompTIA FC0-U61 exam by providing 100 coverage of the objectives and content examples listed.

THEMATIC CONTENT

The following concepts and operations are discussed below:

  I.   **Core Hardware Component (Introduction)**
- Introducing Internal Components
- Exploring Motherboards, Processors and Memory
- Exploring Storage and Expansion Devices
- Exploring Power and Cooling

II. **Peripherals and Connectors**
- Audio, Video and Printers
- Input Devices
- External Storage and other Connectors

III. **Troubleshooting Method and Operating Systems**
- Operating System Fundamentals
- Navigating an Operating System

IV. **Networking Technologies and Wireless Routers**
- Connection Types and Features
- Network Connectivity Essentials
- Setting Up a SOHO Router

V. **Network Sharing and Storage**
- Local Network Sharing
- Web Based Sharing and Access

VI. **Security Threats**
- Understanding Hacking
- Understanding Security Threats

VII. **Software Applications**
- Common Software Applications and File Types
- Software Management Best Practices

VIII. **Security Best Practices**
- Computer and Network Security Best Practices
- Internet Security Best Practices
- Exploring Storage and Expansion Devices
- Exploring Power and Cooling

IX. **Computer Support and Backups**
- Basic Computer Support Concepts
- Computer Backups

Forums:

- Forum 1: El Dilema de las Redes Sociales
- Forum 2: Los Peores y más curiosos Ataques a dispositivos IOT
- Forum 3: Trabajo Futuro con gafas de Realidad Virtual
- Forum 4: Autenticación sin Contraseña
- Forum 5: Cuanto tiempo de vida le queda a tu SSD

Evaluation Criteria

CRITERIA	Grade total
1 Mid-Term Exam	100
1 Final Exam	100
Quizzes	100
Foros 1-5	100
Asistencia	100
Total	500

EDUCATIONAL RESOURCES

- Docter, Q. (2019*). CompTIA IT Fundamentals Study Guide: Exam FC0-U61.* (2nd Edition). Indianapolis, Indiana. Sybex.

- Neo LMS (2020). IT Fundamentals. *passwordtech.edu20.*

  https://passwordtech.edu20.org

NOTES

Reasonable Accommodation: Any student who requires reasonable accommodation must request them at the beginning of the course or as soon acquire the required knowledge that through the Professor in charge and be notifying the Academic Director.

Honesty, fraud, plagiarism: Dishonesty, fraud, plagiarism and any other inappropriate behavior about the student's academic performance, constitute violations of the catalog of the institution, its Rules of Conduct and Duties of Student. Major infractions, as provided in the catalog may result in the suspension of the institution for a defined time or permanent expulsion as stipulated in the Rules of Conduct and Duties of Student.