

## **TEJ201 – COMPUTER ENGINEERING TECHNOLOGY ITE1 – IT Essentials: PC Hardware and Software**

### **COURSE OUTLINE**

<b>Grade:</b>	Grade 10
<b>Course type:</b>	Open
<b>Prerequisite(s):</b>	none
<b>Textbooks:</b>	online curriculum - <a href="https://www.netacad.com">https://www.netacad.com</a> or <a href="http://ciscoacademy/ite1/">http://ciscoacademy/ite1/</a> (intranet only)
<b>Teacher:</b>	Mr. T. Nguyen

### **Course Description:**

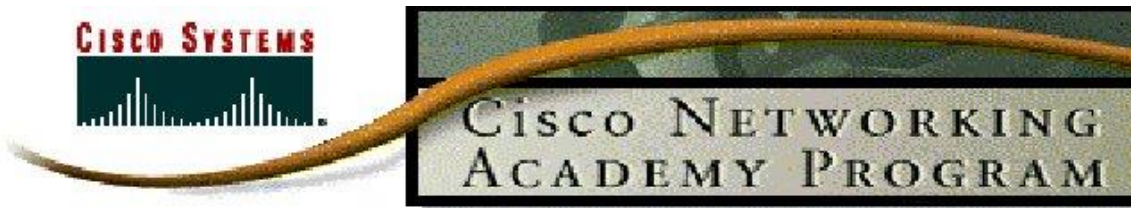
This course helps students understand and apply computer-engineering concepts. This IT Essentials 1 (PC Hardware and Software) provides a comprehensive overview of computer fundamentals and an introduction to advanced concepts. It is intended for individuals who want to pursue careers in IT and gain practical knowledge of how a computer works. Students who complete this course will be able to describe the internal components of a computer, assemble a computer system, install an operating system, and troubleshoot using system tools and diagnostic software. They will also be able to connect computers to the Internet and share resources in a networked environment.

The IT Essentials 1 course will prepare students for entry-level IT positions within various environments. It will also help students develop greater skills and confidence in working with desktop and laptop computers.

This course provides an excellent introduction to the IT industry and interactive exposure to personal computers, hardware, and operating systems. Students participate in hands-on activities and lab-based learning to become familiar with various hardware and software components and discover best practices in maintenance and safety. In addition, PC Hardware and Software covers the following new topics:

- Laptops and portable devices
- Wireless connectivity
- Security
- Safety and environmental issues
- Communication skills

As a CompTIA Authorized Quality Curriculum, PC Hardware and Software will help prepare students for the new CompTIA A+ Essentials and job-skills certification exams.



PC Hardware and Software is divided into two sections. The first section provides foundational knowledge that aligns with the CompTIA A+ Essentials exam, while the second section explores advanced concepts in greater depth and provides opportunities for practical application.

**Chapters 1–14 cover the following skills and competencies:**

- Core competencies in the latest hardware and software technologies
- Information security skills
- Safety and environmental issues
- Soft skills for career development
- Hardware and software troubleshooting skills
- Prepares for CompTIA A+ Essentials job environments certification exams
- Advanced installation of computers, peripheral devices, networks and security components

**Evaluation:**

<b>Weighting:</b>	<b>Term 70%</b>	<b>Final 30%</b>
	Knowledge -25%	Final Exam – 15%
	Thinking – 25 %	Culminating Activity – 15%
	Communication – 25%	
	Application – 25%	

**Exams / Tests:**

1. Each of Chapter exams / tests can only be written once.
2. A course average of at least 50% and a Final Exam mark of 60% or more are needed in order to earn the Cisco certificate (75% or more for the Cisco letter). Students will have the opportunity to re-write the Final Exam only as a means to earn Cisco certificate and/or letter. The first exam mark is the mark used on the report card calculation.

**Attendance:**

1. This course is considered a 100% in person by Cisco. This means that there is an expectation of excellent attendance in order to earn the certificate. Students with more than ten (10) absences may not receive the certificate / letter from Cisco.
2. Labs and activities completed may not be available to students who miss them due to non-school related absences.