

Introduction to Information Technology (2021)

Understand the need and impact of technology. IT 1

- 1 Define the relationship between electronic devices and computers. IT 1.1
- 2 Describe the functional areas in which computers assist people. IT 1.2
- 3 Describe how technology is impacting community. IT 1.3
- 4 List physical and mental health dangers associated with computer use. IT 1.4

Understand computer hardware required to meet specific needs. IT 2

- 1 Understand how computer information is represented. IT 2.1
- 2 Identify hardware components and their relationship to computer usage. IT 2.2
- 3 Understand different types of memory and storage. IT 2.3
- 4 Identify input and output devices to meet the needs of users. IT 2.4
- 5 Understand the decision-making process involved in purchasing computer systems. IT 2.5

Understand software solutions for personal and professional use. IT 3

- 1 Explain how software is created, distributed, installed, and maintained. IT 3.1
- 2 Describe the functions of system software and operating systems. IT 3.2
- 3 Describe different types and purposes of productivity software. IT 3.3

Understand technology used for the Internet. IT 4

- 1 Describe how the Internet developed. IT 4.1
- 2 Explain how hardware, protocols, and software work together to create the Internet. IT 4.2
- 3 Explain the underlying structures and technologies used to support the Internet. IT 4.3

Understand computer network and telecommunications technologies. IT 5

- 1 Understand the fundamentals of data communications. IT 5.1
- 2 List the types of media, devices, and software needed for networking services. IT 5.2

3 List and describe the popular forms of wireless technologies. IT 5.3

Understand the needs and uses for digital media. IT 6

1 Understand the uses of digital media. IT 6.1

2 Discuss how interactive media is used to educate and entertain. IT 6.2

Understand computer crime and information security. IT 7

1 Describe methods of keeping electronic devices secure. IT 7.1

2 Discuss the threats and defenses for networks. IT 7.2

3 Describe the threats posed by hackers, software, scams and the methods of defending against them. IT 7.3

Understand technology ethics in a global society. IT 8

1 Describe the negative and positive impacts of social media. IT 8.1

2 Explain the ways in which technology is used to invade personal privacy. IT 8.2

3 Identify ethical issues related to digital technology. IT 8.3

Explore careers in information technology. IT 9

1 Identify skills, interests, and abilities related to information technology. IT 9.1

2 Compare personal interest survey results with information technology occupations. IT 9.2

3 Research labor market information for information technology. IT 9.3

4 Demonstrate necessary job skills needed for Information and Technology industries. IT 9.4

Demonstrate knowledge of the software development process. IT 10

1 Apply tools for developing software applications. IT 10.1

2 Demonstrate knowledge of programming structures. IT 10.2
