

Idaho PTE Business Education Course with Essential Learning Outcomes and Learning Indicators

Course Title	COMPUTER TECHNOLOGY II		
SDPTE Course ID	BE 0170	IBED	IBED 10001

A course designed to focus on the study of computer hardware and operating systems. This course elaborates on skills and issues included in Computer Technology I.

Term	Semester/Trimester	Preq	BE 0160
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Notes:

Business Law BLaw_7: Demonstrate Knowledge of Computer Law

BLaw_7.1 Explain how the advances in computer technology impact upon such areas as property law, contract law, criminal law, and international law.

Learning Indicator: BLaw_7.1.1	Define the key terms and new issues involved in computer law including security, privacy, computer crime and viruses
Learning Indicator: BLaw_7.1.2	Determine when a computer program can be protected by a patent or a copyright and explain the steps in applying for each
Learning Indicator: BLaw_7.1.3	Identify the circumstances under which the copyright of a computer program has been violated
Learning Indicator: BLaw_7.1.4	Determine when computer-related contracts are service contracts and when they are sale of goods contracts
Learning Indicator: BLaw_7.1.5	Outline the various claims and defenses that are available in civil suits involving computer contracts
Learning Indicator: BLaw_7.1.6	Explain how common law, constitutional law, statutory law, and administrative regulations can be used to prevent the use of computers to invade privacy
Learning Indicator: BLaw_7.1.7	Outline the various types of federal and state statutes designed to combat computer crime
Learning Indicator: BLaw_7.1.8	Discuss the impact of the law of different countries and the impact of international law on computer law

Information Systems IS_1: Demonstrate Knowledge of the Foundations of Information Systems

IS_1.2 Demonstrate a knowledge of computers and the ability to use them.

Learning Indicator: IS_1.2.1	Describe how to cold boot (start up) and warm boot (restart/reset) a computer. Explain the difference. Which should be attempted first?
Learning Indicator: IS_1.2.2	Identify (list) the basic components of your computer system and peripherals
Learning Indicator: IS_1.2.3	Define, explain or demonstrate written knowledge of the following components: Ports Modem, RAM, CPU, Mouse, File Server, Network (LAN & WAN), Serial Ports, Parallel Ports, Operating Systems, Files, Folders, Subfolders, Hard Drive, Storage Disks, CD-ROM, Zip Drives, LCD Displays
Learning Indicator: IS_1.2.4	List and describe the different types of printers available and their main differences
IS_1.3	Identify the need for applications of technology in business, industry, society and on a global scale.
Learning Indicator: IS_1.3.1	Demonstrate the ability to access information regarding applications of computers and technology in business, industry, society and on a global scale
Learning Indicator: IS_1.3.2	Cite uses of computer and technology in business, industry, society and on a global scale

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Learning Indicator: IS_1.3.3 Create a brief list of business, industry, society and global references and sources where information about applications of computers and technology can be found

Information Systems IS_3: Demonstrate Knowledge of Common Applications of Information Systems

IS_3.2 Install, upgrade, and customize application software.

Learning Indicator: IS_3.2.1 Store and maintain application software

Learning Indicator: IS_3.2.2 Install, upgrade, and customize application software

Information Systems IS_5: Demonstrate Knowledge of Communications Systems and Networking

IS_5.1 Use, select, and evaluate communications and networking systems software and hardware to include hubs, switches and routers.

Learning Indicator: IS_5.1.1 Identify the types of communications hardware and explain their functions and use

Learning Indicator: IS_5.1.2 Identify the types of communications software and explain their functions and use

Learning Indicator: IS_5.1.3 Select communications hardware appropriate for specific tasks

Learning Indicator: IS_5.1.4 Select communications software appropriate for specific tasks

Learning Indicator: IS_5.1.5 Demonstrate knowledge of basic telecommunication concepts in relation to technology, applications, and system components

Learning Indicator: IS_5.1.6 Perform computer activities in communications with modems

Learning Indicator: IS_5.1.7 Identify and describe the different components of the telecommunications industry

Learning Indicator: IS_5.1.8 Identify and explain various types of on-line services (e.g., Internet, Intranet, and Extranet)

Learning Indicator: IS_5.1.9 Access, navigate, and use on-line services (e.g., Internet, Intranet, and Extranet)

Learning Indicator: IS_5.1.10 Send and receive e-mail messages, voice messages, and faxes

Learning Indicator: IS_5.1.11 Identify the basic components of any communications system

Learning Indicator: IS_5.1.12 Transfer files between varying types of computers, both local and remote

Learning Indicator: IS_5.1.13 Communicate between varying computer platforms

Information Systems IS_7: Demonstrate Knowledge of Information Systems Ethical Issues

IS_7.1 Establish and use a personal code of ethics for information systems use and management.

Learning Indicator: IS_7.1.1 Identify and explain property, privacy, access, and accuracy issues pertaining to information systems

Learning Indicator: IS_7.1.2 Analyze various information systems to distinguish ethical issues and problems

Learning Indicator: IS_7.1.3 Develop a code of ethics for information systems

Learning Indicator: IS_7.1.4 Apply ethical considerations to the operation and management of information systems common to organizations

Learning Indicator: IS_7.1.5 Demonstrate knowledge of laws and statutes relative to use of technology including copyright, equal access, fair use, educational opportunity, and least restrictive learning environment

Learning Indicator: IS_7.1.6 Discuss ethical and human issues relative to the use of technology in schools

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Information Systems IS_10: Demonstrate Knowledge of Operating Systems, Environments, and Utilities

IS_10.1 Identify, select, evaluate, use, install, upgrade, customize, diagnose and solve problems with various types of operating systems, environments, and utilities.

Learning Indicator: IS_10.1.1	Describe various types of operating systems, environments, and utilities
Learning Indicator: IS_10.1.2	Describe emerging operating systems technology
Learning Indicator: IS_10.1.3	Perform "start-up" procedures on a computer system
Learning Indicator: IS_10.1.4	Use operating system commands
Learning Indicator: IS_10.1.5	Demonstrate a knowledge of operating systems/languages
Learning Indicator: IS_10.1.6	Prepare flow charts for business applications
Learning Indicator: IS_10.1.7	Import, export, and merge data stored in different formats
Learning Indicator: IS_10.1.8	Compare and contrast the functions and features of different operating systems, environments, and utilities
Learning Indicator: IS_10.1.9	Select operating systems, environments, and utilities appropriate to specific hardware and software
Learning Indicator: IS_10.1.10	Organize and maintain directories and files using various operating systems
Learning Indicator: IS_10.1.12	Diagnose and repair installation and operational problems of operating systems, environments, and utilities
Learning Indicator: IS_10.1.11	Install operating systems, environments, and utilities

Information Systems IS_12: Demonstrate Knowledge of Programming

IS_12.1 Demonstrate knowledge of computer history.

Learning Indicator: IS_12.1.1	Give a brief history of computers
Learning Indicator: IS_12.1.2	Describe how hardware and software make up computer architecture
Learning Indicator: IS_12.1.3	Describe the binary representation of data and programs in computers
Learning Indicator: IS_12.1.4	Discuss the evolution of programming languages
Learning Indicator: IS_12.1.5	Describe the software development process
Learning Indicator: IS_12.1.6	Discuss the fundamental concepts of object-oriented programming

Information Systems IS_13: Demonstrate Knowledge of Communications Systems and Networking

IS_13.1 Design and implement security plans and procedures for information systems.

Learning Indicator: IS_13.1.1	Identify risks to information systems facilities, data, communications systems, and applications
Learning Indicator: IS_13.1.2	Identify and select controls for information systems facilities, data, communications, and applications appropriate to specific risks
Learning Indicator: IS_13.1.3	Apply procedures used to restart and recover from situations such as system failure and viral infection
Learning Indicator: IS_13.1.4	Identify federal and state legislation pertaining to computer crime, fraud, and abuse
Learning Indicator: IS_13.1.5	Design and implement a security plan for an information system
Learning Indicator: IS_13.1.6	Develop and implement data retention and destruction schedules
Learning Indicator: IS_13.1.7	Develop and implement disaster prevention and recovery procedures

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Information Systems IS_14: Demonstrate Knowledge of Information Systems Careers

IS_14.1 Describe positions and career paths in information systems.

Learning Indicator: IS_14.1.1 Identify positions and career paths in the field of information systems

Learning Indicator: IS_14.1.2 Identify common tasks performed by information systems workers

Learning Indicator: IS_14.1.3 Describe education, experience, skills, and personal requirements for careers in information systems

Learning Indicator: IS_14.1.4 Recognize the impact of technological change on information systems positions and the resulting need for lifelong learning and retraining