

YEAR 10

ICT



SRI KDU
International
School
SUBANG JAYA

PROGRAMME OF STUDY - TERM 1

TERM 1.1 TYPES AND COMPONENTS OF COMPUTER SYSTEMS

- **Hardware and Software:**
 - Identify the hardware and software that make up a computer system, including input and output devices.
 - Discuss types of application software and system software and their different roles.
- **The Main Components of Computer Systems:**
 - Identify the roles of different hardware and internal components of a computer and how they work together to run the system effectively.
- **Operating Systems:**
 - Understand the different types of operating systems and identify the different types of user interfaces that are available.
- **Types of Computers:**
 - Explore different types of computers that perform a variety of roles.
- **Emerging Technologies:**
 - Discover how emerging technologies, including artificial intelligence and extended reality (virtual reality and augmented reality), are impacting many aspects of everyday life.

TERM 1.1 INPUT AND OUTPUT DEVICES

- **Input Devices:**
 - Understand and explain what is meant by input devices and the roles of manual input devices and direct data entry devices.
- **Direct Data Entry and Associated Devices:**
 - Learn about direct data entry methods used when large amounts of data need to be entered, often in commercial or business applications.
- **Output Devices and Their Uses:**
 - Explore output devices and their uses.
 - Describe the advantages and disadvantages of input and output devices.

TERM 1.2 STORAGE

- **Storage Devices and Media:**
 - Identify different data storage media and the devices necessary to write and read data to and from the media.
 - Describe the uses of different types of storage media and compare their advantages and disadvantages.
 - Compare the advantages and disadvantages of optical, magnetic, and solid-state storage media.

TERM 1.2 NETWORKS

- **Networks:**

- Master the operation of a router and other common network devices, such as network interface cards, hubs, bridges, and switches.
- Learn about the use of Wi-Fi and Bluetooth in networks.
- Discuss cloud computing for storing and sharing data.
- Describe the characteristics and purposes of common network environments and different types of networks.

- **Network Issues and Communication:**

- Gain a comprehensive understanding of the security issues regarding data transfer, including passwords and other authentication methods.
- Explain the use of anti-malware software and electronic conferencing.

TERM 1.2 THE EFFECTS OF USING IT

- **Microprocessor-Controlled Devices:**

- Discuss the positive and negative effects of using microprocessor-controlled devices for monitoring and controlling devices at home.
- Understand the impact of microprocessor-controlled devices on lifestyle, leisure, physical fitness, and social interaction.
- Understand the importance of data security and discuss the effects of smart devices on monitoring and controlling transport, including data security, autonomous vehicles, and transport safety.

- **Health Issues:**

- Gain knowledge on health issues, including the causes of and strategies for preventing repetitive strain injury (RSI), back problems, eye problems, and headaches.