

University of Biskra

Faculty of Human and Social Sciences

Department of Human Sciences

University year 2024/2025



## Courses of English Language (second semester)

Class

English course for 1LMD Human sciences

Set by

Dr. Houfani Asma





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### Introduction

Many who come across the term information system for the first time think of it as some software based on information storage or something like that. Well, the name does sound that way. However, an information system is way bigger than that. So, **what is an information system?**

An information system is a combination of **software, hardware, and telecommunication networks** to collect useful data, especially in an organisation. Many institutions use information technology to complete and manage their operations, interact with their consumers, and stay ahead of their competition.

### Typical components of information systems

Now that you know what an information system is, let's look at its components. It has four components – **hardware, software, data, and telecommunications.**

**1. Hardware** – This is the physical component of the technology. It includes computers, hard disks, keyboards, iPads, etc. The hardware cost has decreased rapidly while its speed and storage capacity has increased significantly.

**2. Software** – Software can be of two types, **system software** and **application software**. The system software is an operating system that manages the hardware, program files, and other resources while offering the user to



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control the PC. Application software is designed to manage particular tasks by the users. In short, system software makes the hardware usable while application software handles specific tasks.

An example of system software is Microsoft windows, and an example of application software is Microsoft Excel.

**3. Data** – Data is a collection of facts and is useless by themselves, but when collected and organised together, it can be very powerful for operations. Businesses collect all the data and use it to make decisions that can be analysed for the effectiveness of the business operations.

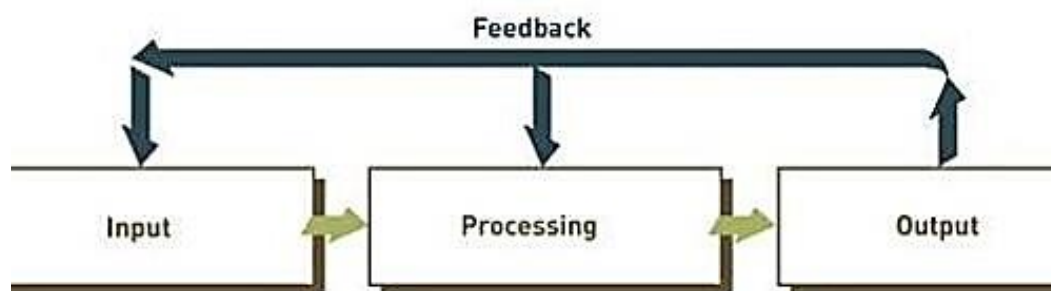
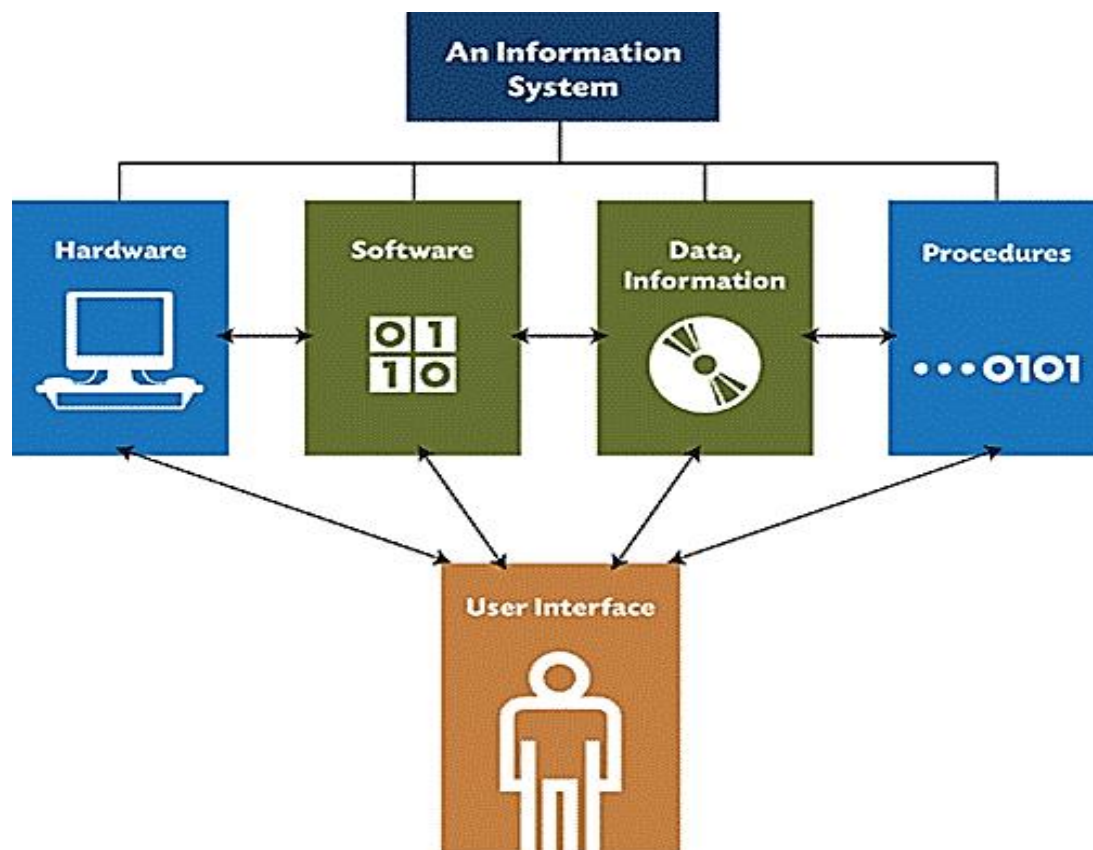
**4. Telecommunications** – Telecommunication is used to connect with the computer system or other devices to disseminate information. The network can be established using wired or wireless modes. Wired technologies include fiber optics and coaxial cable, while wireless technologies include radio waves and microwaves.

**Adapted from <https://emeritus.org/in/learn/information-system/>**



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The Components of any Information System



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**Questions**

**Activity one :** Complete the following definitions by the correct concepts: Application software; information system; Hardware; system software

- is a combination of **software, hardware, and telecommunication networks** to collect useful data, especially in an organisation. ....
- is the physical component of the technology .....
- Microsoft windows is.....
- Microsoft Excel is.....

**Activity tow :** Put the × in the true or false

	true	false
Data is a collection of facts and is useful by themselves		
Application software is designed to manage particular tasks by the users		
Telecommunication is used to connect with the computer system or other devices disseminate information		
When the data is collected and organised together, it can be very powerful for operations		

**Activity three:** Translate the following terms to Arabic

The information system		Processing	
Hardware		Feedback	
Software		Institution	
Data			
Input			
Output			