



# Computer Science

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Lessons in Computer Science  
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# Outline

- **information technology**
- **What is the importance of information technology?**
- **What are the areas of use of information technology?**



# Information technology

Information technology is the use of computers and smart devices to store, retrieve, process and transmit data

Information technology science is mainly concerned with computer-based systems and smart devices, and it studies, designs, develops, activates and provides support for them.



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# Information technology

**Information security** is one of the important points in information technology, given that information in our present era is one of the most important points whose security must be maintained.

The focus in information technology is on (computer applications) and software, as well as the infrastructure that provides communications and the Internet for the purpose of transmitting and sharing data.



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# What is the importance of information technology?

1. It provides great support for all sciences and is the engine of all scientific, industrial, educational and commercial fields.
2. A tool for interaction and interconnection between individuals and organizations within different societies.
3. Dealing with the huge amount of data and information and making the process of understanding and benefiting from it simple.
4. Raising the performance efficiency of individuals and organizations by using modern technologies provided by information technology.



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# What are the areas of use of information technology?

## 1 Electronic Government.

It is the use of information technology in providing government services to citizens, companies, and other sectors in order to achieve a set of goals, including speeding up the completion of work by providing a good service that is far from the limitations of time and accuracy,



# What are the areas of use of information technology?

## 2 Teaching and learning:

Information technology has provided great services in the field of (teaching and learning), as it has developed the educational system extensively, and new terms have appeared such as: self-learning, distance learning, and electronic learning (LEARNING-E). Technology has entered the halls through screens, interactive whiteboards, and interactive laboratories. The use of scientific platforms, phone applications, and smart devices is common in education.



# What are the areas of use of information technology?

## 3 Electronic commerce:

E-commerce is defined as carrying out commercial operations, including offering services and buying and selling products, goods, and information, through the use of electronic systems based on information technology, without restrictions of time and place.

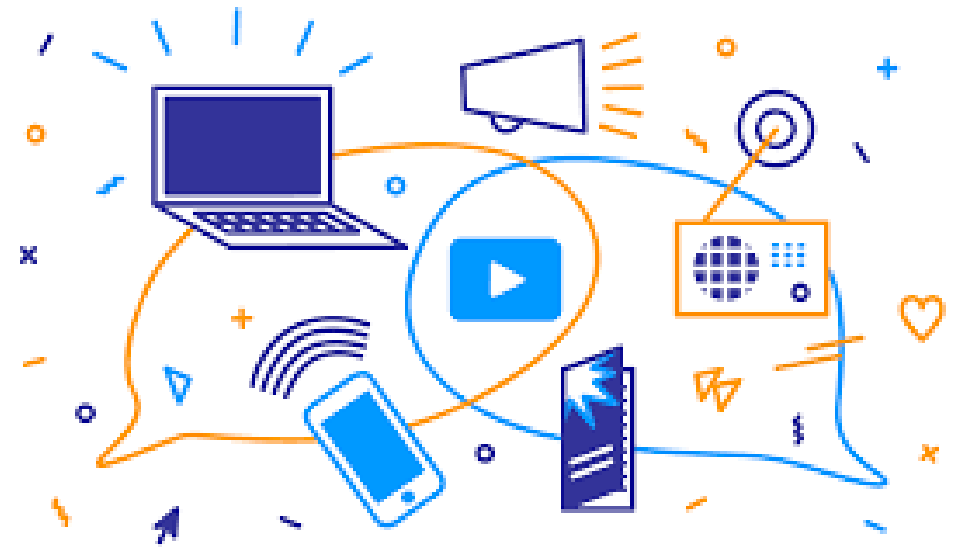




# What are the areas of use of information technology?

## 4 Communications:

Due to the development in the use of information technology, it has become possible to see and hear what is going on around the world, and to communicate with others via text messaging, audio, and video, as well as panel discussions, video conferences, and following up on global events.



# What are the areas of use of information technology?

## 5Health and medicine :

Technological development has helped bring about a scientific revolution in the field of medicine, as it has helped to find solutions and treatments for some health problems and diseases that were difficult to reach without development in the field of information technology. This development has also helped to perform many complex operations using precise electronic devices.



# What are the areas of use of information technology?

## 6 Industry :

The use of information technology in the industrial field has had a clear impact on the development of many industries, especially giant industries, such as: manufacturing cars and aircraft, inspecting them, and ensuring their quality and durability. Computer-guided machine applications have also become widespread to accomplish complex work with extreme precision.



**Thank you**

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