Study Plan for

Introduction to Computer Networks

By: Dr. Dina Tbaishat

Introduction:

This is a course that introduces the concept of networking and how related technologies are used nowadays in everyday life to facilitate work and processes. This course should let you explore the concept of Information and Communication Systems (ICTs), and reflect on how these are involved in our lives.

Aims and objectives:

1. Introducing the networked world we live in
2. Understand the technologies used in these networks
3. Understand how these technologies are applied in reality with introducing some examples
4. Introducing the concept of Information and Communication Technologies (ICTs), and understand how it enables communication and information sharing
5. Looking at ICTs and how they were gradually developed

Learning outcomes:

By the end of this course, students should:

1. Know and understand the basic concepts in networking such as: ICT, signal, network, LAN, WAN, etc…
2. Be aware of the main technologies that drive these networks
3. Acquire some skills related to developing charts and reading
4. Explore three aspects that changed and were affected by ICTs : health, transportation and government

Main course contents:

1. Introduce the concept of ICT
2. Introduce the concept of system map and explore some examples
3. Look at information sharing
4. Introduce wired and wireless technologies in detail
5. Identify the concept of RFID and its applications
6. Compare between competing technologies such as WiFi and Bluetooth
7. Look at the concept of smart home
8. Introduce the digital world
9. Go through the development of news gathering
10. Explore three aspects in which ICTs are applied: health, transportation and government
11. Introduce telemedicine

Course evaluation:

This course is evaluated as follows:

- 25% for the mid-term exam
- 10% for participation in class and attendance
- 15% for the assignment
- 50% for the final exam

Best of luck

Dr. Dina Tbaishat