

**Faculty of Computers and Information Technology****Computer Networks****Information :****Course Code :** CSS221**Level :** Undergraduate**Course Hours :** 3.00- Hours**Department :** Faculty of Computers and Information Technology**Instructor Information :**

Title	Name	Office hours
Lecturer	Hussein Mohamed Mohamed Ali Harb	
Assistant Lecturer	MAHMOUD MAGDY MOHAMED ABDO	
Teaching Assistant	Debaj Shady Mahmoud Talha Mohamed Elmaghraby	
Teaching Assistant	Reem Khaled Mohamed Elsayed	
Teaching Assistant	Hoda Ahmad Moustafa Abdelrahman Ismail	

**Description :**

The course provides the fundamentals of computer networking. Topics covered in this course are the Internet architecture and protocols, the fundamental concepts, and principles of OSI and TCP/IP layers, the Ethernet communication technology, switching techniques, network performance metrics, data link layer, network layer, routing protocols, IP networking and addressing, transport layer protocols (TCP and UDP), Application layer protocols (e.g., BGP, SSH, SMTP, DNS, HTTPS, among others), Wireless and mobile networks technologies, network traffic analysis, the client-server model. Hands-on experience is provided through a series of exercises, assignments, and projects.