
	Hashemite University	
	Prince Al-Hussein bin Abdullah II Faculty for Information Technology	
	Department of Computer Science and Applications	

### Course Syllabus

Year: 2018-2019

Semester: (1)

Course No.	Course Title	Designation	Prerequisite	Co-requisite	Credit Hours Lectures /Lab.
151001320	Computer Networks	Required	151001123	-	3 / 0

Instructor Name	E-mail	Office No.	Office ext.	Office Hours
Dr. Mohammad Bsoul	<a href="mailto:mbsoul@hu.edu.jo">mbsoul@hu.edu.jo</a>	234	4573	Sun, Tue, Thu (11-12) Mon, Wed (12:30-2)
Dr. Ibrahim Obeidat	<a href="mailto:IMSObeidat@hu.edu.jo">IMSObeidat@hu.edu.jo</a>	229	4773	

<b>Coordinator's Name:</b>	Dr. Mohammad Bsoul
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<b>Course Description</b>	<p>This course is an introductory course on computer networks. It introduces the underlying concepts and principles of modern computer networks with emphasis on protocols, architectures, and implementation issues. The main goal of this course is to understand layering in computer networks, understand different protocol stacks (OSI and TCP/IP), understand functions and protocols within a layer, understand how layers fit together and finally understand how the Internet works.</p>
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<b>a) Textbook(s):</b>
1. Data Communications and Networking, Behrouz Forouzan, 5 <sup>th</sup> ed., McGraw-Hill, 2013.
<b>b) Additional References:</b>
1. Data and Computer Communication, William Stallings, 10 <sup>th</sup> ed., Prentice-Hall 2014.
2. Computer Networks, Andrew S. Tanenbaum, 5 <sup>th</sup> ed., Prentice-Hall, 2010.
3. Computer Networks and Internets, Douglas E. Comer, 6 <sup>th</sup> ed., Prentice-Hall, 2015.

<b>Course Learning and Outcomes CLOs</b>
1. <b>Explain</b> the underlying concepts and principles of modern computer networks. (2)
2. <b>Describe</b> layering in computer networks and functions and protocols within a layer. (1)
3. <b>Describe</b> different types of transmission media. (1)
4. <b>Explain</b> how the Internet works. (2)
5. <b>Design</b> an internetwork using Cisco Packet Tracer simulator. (2)
<b>Addressed Student Learning Outcomes (SLOs)</b>
1 and 2

<b>Topic Details</b>	<b>Course ILO number</b>	<b>Reference</b>	<b>No. of Weeks</b>	<b>Contact hours*</b>
1.Introduction	1	Ch1	2	6
2.Networks Models	2	Ch2	2	6
3.Transmission Media	3	Ch7	1	3
4.Switching	1	Ch8	1	3
5.Data Link Control	2	Ch11	3	9
6.Media Access Control	2	Ch12	2	6
7.Wired LANs: Ethernet	1	Ch13	2	6
8.Introduction to Network Layer	4	Ch18	2	6
Total			15	45

<b>Assessment method</b>	<b>Grade</b>	<b>Comments</b>
First Exam	25%	Covers Chapters 1, 2, 7, and 8
Second Exam	25%	Covers Chapters 11, and 12
Assignment	10%	TBA
Final Exam	40%	
Total	100%	