

Al-Al Bayt University
Prince Hussein bin Abdullah Faculty of Information Technology
Computer Science

Course Title : Internetworking and Applications

Course Number : 901420

Credit Hours : 3

Pre requisite : 902360

Placement :

Instructor: molaimat ,

Course Description :

null

General objectives :

By the end of the course, the student should be familiar with:

? Computer Networks

Course outline :

Computer Networks & the Internet

Why Networking

What is the Internet?

Network Structure:

Network edge, Network core,

Interconnecting LAN segments

Hubs

Bridges

Switches

Routers

Network access & physical media

Internet structure and ISPs

Protocol layers

service models

Implementing Network Software

Application Programming Interface (Sockets)

Socket Programming with TCP

Socket Programming with UDP

Interprocess communication

Remote procedure call

Protocol Implementation Issues

IP Addressing

classful addressing, Subnetting and super-netting

classless addressing Subnetting

IP packets

Delivery

forwarding

Routing

Routing

ARP

RARP

ICMP

Internet group management protocol

Internet group management protocol (IGMP)

Unicast Routing protocol

RIP

OSPF

BGP

Multicast routing protocol

Multicast routing protocol

Mobile IP

null

Network security

DATA security

Network security

Evaluation methodology :

Final.....50

Term Activity.....10

Exam 1.....20

Exam 2.....20

References :

* TCP/IP protocol suite 3rd Edition 2006, McGraw Hill, Behrouz A. Forouzan

* Computer Networks 5th edition 2010, (Pearson Custom Computer, Andrew S. Tanenbaum and David J. Wetherall

* Computer Networking: A Top-Down Approach 4th Edition, Addison Wesley, J. Kurose and W. Ross

* Computer Networking and the Internet 5th edition, Addison Wesley, Fred Halsall

* Computer Networks: A Systems Approach 5th Ed 2011, Morgan Kaufmann, Larry L. Peterson AND Bruce S. Davie

Course Schedule :

Topic	Hours
--------------	--------------

No Information Available...