

University of Asia Pacific

Department of CSE

Lesson Plan

Course Code & Title: CSE 422, Computer Networks Lab

Course outline:

Introduction, How modern networking is evolving, Detail objective, Brief Overview of Servers, IP in detail, Simulators in detail, Networking Devices in detail, IP Network Planning and Implementation in more detail, Layer-2 and Layer-3 Implementation in Simulators, Advanced Layer-3 Implementation, Switching and Routing in more detail, Network design concept, VLAN in more detail, Trunk and Access mode of switch, Sub-interface of router, Visiting an ISP, Idea on International Backbone, IPv4 and IPv6 in detail, IPv4 Subnetting, Formal Presentation in presence of external from Industry, IPv4 and IPv6 in more detail, Packets in bit level, IPv6 Subnetting, Routing, Static Routing and OSPF

Semester: Fall 2015

Teacher: Md. Akhtaruzzaman Adnan

Office/Room:

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Department of Computer Science and Engineering
House # 52/1, Road # 4/A,
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Consultation/Contact time:

Check the notice board on the door.

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Teaching method: Lab works, assignments, Lab quizzes.

Prerequisites:

Basic text(s):*Data Communications and Networking* - Behrouz A. Forouzan**Reference text(s):***TCP/IP: Protocol Suite* - Behrouz A. Forouzan**Additional reading material:** PowerPoint slides & PDF provided by the teacher**Lecture Plan:**

Lecture	Topic	Work assignment
Week 1	Introduction, How modern networking is evolving, Detail objective	Read 5 papers on any networking issue
Week 2	Brief Overview of Servers, IP in detail, Simulators in detail, Networking Devices in detail	
Week 3	IP Network Planning and Implementation in more detail, Layer-2 and Layer-3 Implementation in Simulators	
Week 4	Advanced Layer-3 Implementation, Switching and Routing in more detail, Network design concept	
Week 5	VLAN in more detail, Trunk and Access mode of switch, Sub-interface of router	
Week 6	Visiting an ISP, Idea on International Backbone, IPv4 and IPv6 in detail, IPv4 Subnetting/ Mock presentation	
Week 7	Formal Presentation in presence of external from Industry	Overview of papers
Week 8	IPv4 and IPv6 in more detail, Packets in bit level, IPv6 Subnetting	
Week 9	Routing, Static Routing and OSPF	
Week 10	Routing, Static Routing and OSPF	
Week 11	BGP, OSPF and BGP coupling, Routing Protocol in more detail	
Week 12	Idea on Hacking, Ethical Hacking,	
Week 13	Network Security technologies in detail	

Week 14	Presentation and Final Quiz	Paper presentation
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Assessment methods:

Component	Weight/percentage
Quizzes	10%
Class participation	30%
Assignments	10%
Term Paper	n/a
Presentation	50%
Midterm	n/a
Final	n/a
Total	100%

Grading system:

Numeric Grade	Letter Grade	Grade Point
80% and above	A+	4.00
75% to less than 80%	A	3.75
70% to less than 75%	A-	3.50
65% to less than 70%	B+	3.25
60% to less than 65%	B	3.00
55% to less than 60%	B-	2.75
50% to less than 55%	C+	2.50
45% to less than 50%	C	2.25
40% to less than 45%	D	2.00
Less than 40%	F	0.00