

Daffodil International University

Department of Computer Science and Engineering (CSE)
OBE Course Outline



Course Code:	CSE314			
Course Title:	Computer Networks Lab			
Program:	B.Sc. in CSE			
Faculty:	Faculty of Science and Information Technology (FSIT)			
Semester:	SUMMER	Year:	2020	
Credit:	1.00	Contact Hour:	3 hr / week	
Course Level:	Level 3 Term 1	Prerequisite:	CSE233	
Course Category:	Core Engineering			
Instructor Name:				
Designation:				
Email:				
Office Address:				
Class Hours:	Section C	Class Day	Class Hours	Classroom
Google Classroom		·	·	
Code:				

1. Course Rationale

This course is designed to impart knowledge about detailed knowledge of Computer Networks, various protocols used in Communication, Managing and configuring Cisco Switches and Routers and various WAN technologies.

1.1.Course Objective

- 1. Explain network technologies and how devices access local and remote networks.
- 2. Describe router hardware.
- 3. Explain how switching operates in a small to medium-sized business network.
- 4. Design an IPv4 and IPv6 addressing scheme to provide network connectivity for a small to medium-sized business network.
- 5. Configure initial settings on a network device using Cisco command-line interface (CLI)
- 6. Implement basic network connectivity between devices.

1.2.Course Outcomes (CO's)

CO1	Demonstrate a broad knowledge of the area of computer networking and its terminology
CO2	Design, implement, and test the operation of a basic computer network
CO3	Demonstrate an understanding of the operation of a range of networking protocols and devices
CO4	Able to create a network for a small organization

2. Strategies and approaches to learning

2.1. Teaching and Learning Activities (TLA)

TLA1	Demonstrations once a week according to the university policy using
	multimedia of different topics.
TLA2	Active discussion in class regarding efficient designing and solving of
	the logical and mathematical problems.
TLA3	Group discussion and presentation regarding diverse problems and
	corresponding lectures.
TLA4	Evaluation of class performances to reach each student in a class for
	every topic.

3. Course Schedule and Structure

3.1.Textbook

Cisco CCNA Study Guide v2.71, Aaron Balchunas

3.2.Reference Books

- CCNA, Study Guide, 6th Edition, TodLammle
- Cisco website (www.cisco.com) for technical data sheets of devices.

3.3.Course Plan/Lesson Plan

Lesson/ Labs	Торіс	Teaching and Learning Activities (TLAi)	Textbook & Video Reference	Related CO's
1	Basic Network Topology, Introduction of simulator and networking devices and cabling.	TLA2	(Aaron Balchunas Sec. 3)	CO1
2	Different topology configuration with multiple networks using basic routing command	TLA2	(Aaron Balchunas Sec. 3)	CO2
3	Introduction of Routing protocols and Configure static routing	TLA2, TLA4	(Aaron Balchunas Sec. 16)	CO2,CO3
4	Design and Implementation of Dynamic (RIP) Protocol	TLA2, TLA4	(Aaron Balchunas Sec. 17, 19)	CO2,CO3
5	Design and Implementation of Dynamic (EIGRP) Protocol	TLA2, TLA4	(Aaron Balchunas Sec. 17, 19)	CO2,CO3
6	Design and Implementation of Dynamic (OSPF) Protocol	TLA2, TLA4	(Aaron Balchunas Sec. 20)	CO2,CO3
7	Midterm Examination of Theory Course			
8	Configuration of DHCP	TLA2, TLA4	(Aaron Balchunas Sec. 23)	CO2,CO3
9	Implementation of VLAN in catalyst switch	TLA2, TLA4	(Aaron Balchunas Sec. 21)	CO2,CO3

Lesson/ Labs	Торіс	Teaching and Learning Activities (TLAi)	Textbook & Video Reference	Related CO's
10	Design and Configure Static and Dynamic NAT	TLA2, TLA4	(Aaron Balchunas Sec. 27)	CO2,CO3
11	Project Submission	-	-	CO1, CO2,CO3 and CO4
12	(LAB FINAL)	-	-	-

4. Assessment Methods

4.1. Grading System

Numerical Grade	Letter Grade	Grade Point
80-100	A+	4.00
75-79	A	3.75
70-74	A-	3.50
65-69	B+	3.25
60-64	В	3.00
55-59	В-	2.75
50-54	C+	2.50
45-49	С	2.25
40-44	D	2.00
Less than 40	F	0.00

5. Additional Support for Students

• Student Portal:

http://studentportal.diu.edu.bd/

• Academic Guidelines

https://daffodilvarsity.edu.bd/article/academic-guidelines

• Rules and Regulations of DIU

https://daffodilvarsity.edu.bd/article/rules-and-regulation

• Career Development Center:

https://cdc.daffodilvarsity.edu.bd/

• For general queries:

http://daffodilvarsity.edu.bd/