Course Outline

ULAB
UNIVERSITY OF LIBERAL ARTS BANGLADESH

Basic Information

Term	**Spring 2021**		
Course Title	*Data Communication and Computer Networks*		
Course Code	CSE 309		
Section	1		
Credit Hours	3.0		
CIE Marks	60		
SEE Marks	40		
Class Schedule	Sun & Tue: 8:30 AM – 10:00 AM		
Prerequisite Course	N/A		
Course Teacher	your name		
Department Offering the Course	Department of Computer Science and Engineering		
School	School of Science and Engineering		
Contact Email	your.name@ulab.edu.bd		
Contact Number	+880-19 3675 ****		
Office and Location	Building: C, Room: 319		
Counseling/Office Hour	Sun, Tue	10:00 AM – 1:00 PM	❋ *Also available by appointment*
	Mon, Wed	11:30 AM – 1:00 PM	
Google Classroom Link	`www.example.com`		
Number of Lectures	24		

1.0 Course Description

Course description goes here.

1.1 Course Objective

The objectives of the course are as follows:

- To provide ...
- To discuss ...
- To enable ...
- To emphasize ...

1.2 Course Learning Outcome (CLO/ILO)

At the end of the term, students will be able to do

CLOs	Outcomes
CLO1	To provide an in-depth knowledge on basic networking theories.
CLO2	To discuss how to design an internet work and what are the key factors to be considered.
CLO3	To diagnose problems and to build a framework to understand.
CLO4	To critically analysis of sub networking.

1.3 Mapping of Course Learning Outcomes to Program Learning Outcomes (PLO/PO)

CLOs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CLO1												
CLO2												
CLO3												
CLO4												1

Note: Please refer to Appendix A for program learning outcome details.

1.4 Teaching and Learning Activities (TLA)

TLAs	Activities
TLA1	Interactive discussion using Online/multimedia or whiteboard.
TLA2	Interactive video and/or scenario based presentation
TLA3	Case Study and group discussion
TLA4	Real-life project in a team to apply data structure knowledge

1.5 Course Delivery Plan

Week/Lesson (hour)	Discussion Topic and Book Reference	Student Activities during Online and Onsite and TLA	Assessment and Mapping CLO/ILO
W1 – L1 & L2 (1.5 × 2 = 3.0)		Lesson 1 and 2: On-line/Onsite discussion; Review Feedback online. Tools to use:	Background preparation week
W2 – L3 & L4 (1.5 × 2 = 3.0)			Assignment 1
W3 – L1 & L2 (1.5 × 2 = 3.0)			
W4 – L3 & L4 (1.5 × 2 = 3.0)			Quiz 1
W5 – L1 & L2 (1.5 × 2 = 3.0)			
W6 – L3 & L4 (1.5 × 2 = 3.0)			Quiz 2 and Assignment 2
W7		Midterm Exam	
W8 – L3 & L4 (1.5 × 2 = 3.0)			
W9 – L1 & L2 (1.5 × 2 = 3.0)			
W10 – L3 & L4 (1.5 × 2 = 3.0)			
W11 – L1 & L2 (1.5 × 2 = 3.0)			Quiz 3
W12 – L3 & L4 (1.5 × 2 = 3.0)			

W13 – L1 & L2 (1.5 × 2 = 3.0)	
W14	Final Exam

1.6 Text and Reference Materials

1. Textbook:
   - Network Fundamentals, CCNA Exploration Companion Guide Mark Dye, Rick McDonald, Antoon Rufi
2. References:
   - Computer Networks, Andrew S. Tanenbaum, David J. Wetherall, Pearson, July 23, 2013
   - Data Communications and Networking, Behrouz A. Forouzan, Sophia Chung Fegan, Huga Media, 2013
   - Additional materials will be provided as required.

1.7 Distribution of Marks for Assessment

1.7.1 Cumulative Impact Evaluation (CIE) (60 marks)

Bloom's Criteria	Attendance	Quiz	Assignment	Presentation	Mid Exam
Remember					
Understand					
Apply					
Analyze					
Evaluate					
Create					

1.7.2 Semester End Examination (SEE) (40 marks)

Bloom's Criteria	Score for the Test
Remember	
Understand	
Apply	
Analyze	
Evaluate	
Create	

1.8 Grading Policy

Policy	Letter Grade	Grade Point	Assessments
95% and above	A+	4.00	Outstanding
85% to 94%	A	4.00	Superlative
80% to 84%	A-	3.80	Excellent
75% to 79%	B+	3.30	Very Good
70% to 74%	B	3.00	Good
65% to 69%	B-	2.80	Average

60% to 64%	C+	2.50	Below Average
55% to 59%	C	2.20	Passing
50% to 54%	D	1.50	Probationary
below 50%	F	0.00	Fail
–	I	0.00	Incomplete
–	W	0.00	Withdrawn
–	AW	0.00	Administrative Withdrawal

your name
Course Teacher
May 3, 2023

Prof. Syed Akhter Hossain, PhD
Head of the Department
May 3, 2023

Appendix A : Program Outcomes

POs	Category	Program Outcomes
PO1	Engineering Knowledge	Apply the knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.
PO2	Problem Analysis	Identify, formulate, research the literature and analyze complex engineering problems and reach substantiated conclusions using first principles of mathematics, the natural sciences and the engineering sciences.
PO3	Design/Development of Solutions	Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for public health and safety as well as cultural, societal and environmental concerns.
PO4	Investigations	Conduct investigations of complex problems, considering design of experiments, analysis and interpretation of data and synthesis of information to provide valid conclusions.
PO5	Modern tool usage	Create, select and apply appropriate techniques, resources and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
PO6	The engineer and society	Apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional engineering practice.
PO7	Environment and sustainability	Understand the impact of professional engineering solutions in societal and environmental contexts and demonstrate the knowledge of, and need for sustainable development.
PO8	Ethics	Apply ethical principles and commit to professional ethics, responsibilities and the norms of the engineering practice.
PO9	Individual work and teamwork	Function effectively as an individual and as a member or leader of diverse teams as well as in multidisciplinary settings.
PO10	Communication	Communicate effectively about complex engineering activities with the engineering community and with society at large. Be able to comprehend and write effective reports, design documentation, make effective presentations and give and receive clear instructions.
PO11	Project management and finance	Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work as a member or a leader of a team to manage projects in multidisciplinary environments.
PO12	Life Long Learning	Recognize the need for and have the preparation and ability to engage in independent, life-long learning in the broadest context of technological change.