UNITED INTERNATION AL UNIVERSITY
COURSE SYLLABUS

School	School of Science and Engineering (SOSE)
Department / Centre	Computer Science and Engineering
Programme	CSE
Name of Course	Computer Networks Lab
Course Code	CSE 324/CSE 3712
Trimester and Year	Spring 2022
Status	Compulsory Course
Credit Hours	1
Course website	www .lms.uiu.ac.bd
Course Instructor	Adiba Shaira E-mail: adiba@cse.uiu.ac.bd
Office	Room 419,UIU
Text Book	Computer Networks Lab Manual version 3, (Provided in the lab.)
Reference & Equipment	Cisco Networking Academy Materials provided in the lab
Course Rationale	This course is required for the students to provide them with a practical base in computer network issues and network applications using the existing protocols and architectures.

Assessment Methods

Assessment Types	Marks
Attendance	10%
Class Assessment	20%
Homework	5%
Mid Assessment	20%
Final Assessment	30%
Term Project	10%
Socket Programing	5%
Total	**100%**

Topic Outline

Lab	Topics/Assignments	Reading Reference	Activities
1	Introduction to Network Lab, Understanding Network, Networks Components and TCP/IP Properties	Lab Manual	Q/A, Lab Experiment, Assignment
2	IP Addressing and Subnetting	Lab Manual	Lab Experiment, Assignment
3	Introduction to Packet Tracer , Building a single-segment Network using PT	Lab Manual	Quiz 1 Lab Experiment
4	Basic Router Configuration (**Term Project Group**)	Lab Manual	Quiz 2, Assignment Lab Experiment
5	Internetworking using Routers/Routing Protocols (Static, Default and Dynamic Routing) (**Term Project Assignment**)	Lab Manual	Quiz 3 Lab Experiment
6	**Midterm Exam**	**Quiz, Practical (** Set-up**)**	
7	Dynamic Host Configuration Protocol (DHCP) and Introduction to Wireshark	Lab Manual	Lab Experiment, Assignment
8	**Basic Firewalls** – Access Control Lists (ACLs)	Lab Manual	Quiz-4 Lab Experiment
9	Network Address Translation (NAT) – Connecting to an ISP (Internet)	Lab Manual	Quiz-5, Assignment Lab Experiment
10	Socket Programming	Lab Manual	Quiz-5, Assignment Lab Experiment
11	Introduction VLAN and Inter-VLAN Routing	Lab Manual	Quiz-6, Assignment Lab Experiment
12	**Final Exam**	**Quiz, Practical (** Set-up**)**	