



Course Delivery Plan

Department of Computing & Information System (CIS)

Semester: Spring-2021, Batch: 5th

Course Code: **CIS 313**

Course Title: Network Security

Credit Hours: 3

Course Intended Learning Outcome (CILO):

- (1) Identify the fundamental Security for the computer network with and without internet.
- (2) Describe the conceptual and implementation aspects of security applications and its use in most of the application such as HTTP, SMTP and FTP.
- (3) Investigate the implementation details on both reliable and unreliable services that can be provided by the several cryptography.
- (4) Identify and make critique on the underlying principles of cryptographic algorithms and its related protocols being applied to the Internet.
- (5) Describe the services, principle and specific security provided in Local area network like firewall.

Theory Session Plan:

Week No	Topic	Expected Learning Outcome	Assessment/ASSNT/CT/MID/Final
WK1	Basic Computer Network	a) Basic Concept.	Related examples solve in the class
WK2	Introduction to Computer Security	a) Basic Concept.	Related examples solve in the class
WK3	Aspects of Computer Security	Know about Key	Related examples solve in the class
WK4	Cryptographic process	Security Algorithm	Class Test 1. (On last class of the week)
WK5	Network security-issues	IP Problem	Related examples solve in the class
WK6	Security laws in IP	IP allows broadcast destination	Related examples solve in the class
WK7	Security Workshop	a) Basic Knowledge security+	Class Test 2. (On last class of the week)
	-----Mid-Term Week-----	-----Mid-Term Week-----	-----Mid-Term Examination-----
WK8	Firewall Configuration and Administration	Set up firewall rules that reflect an organization's overall security approach	Presentation 1
WK9	Overview of VPN	Basic VPN	Related examples solve in the class

WK10	Advanced Feature of VPN	Encapsulation	Class Test 3
WK11	Advanced Feature of VPN	Encapsulation	
WK12	Group Work	Review an article	Find the problem in real life.
WK13	Review Class	Problem Solving	Team Work
WK14	Review Class	Problem Solving	Team Work
	---Final Exam Week---	---Final Exam Week---	-----Final Exam-----

Text Book(s):

- 1) Computer Networks and Security (2IC60)
T. Ozcelebi and J.I. den Hartog, version 0.38 (2019)

Reference Materials:

- (1) Online tutorial.
- (2) Handout