AIML:21AM404 LessonPlan2 22-23

Prerequisite(s): Network, Internet, Protocols, Standards, Layers

Topic : Layered approach of OSI Model & TCP/IP Protocol suite

General Objective (GO): Students will be able to understand the framework of OSI model and TCP/IP Protocol suite.

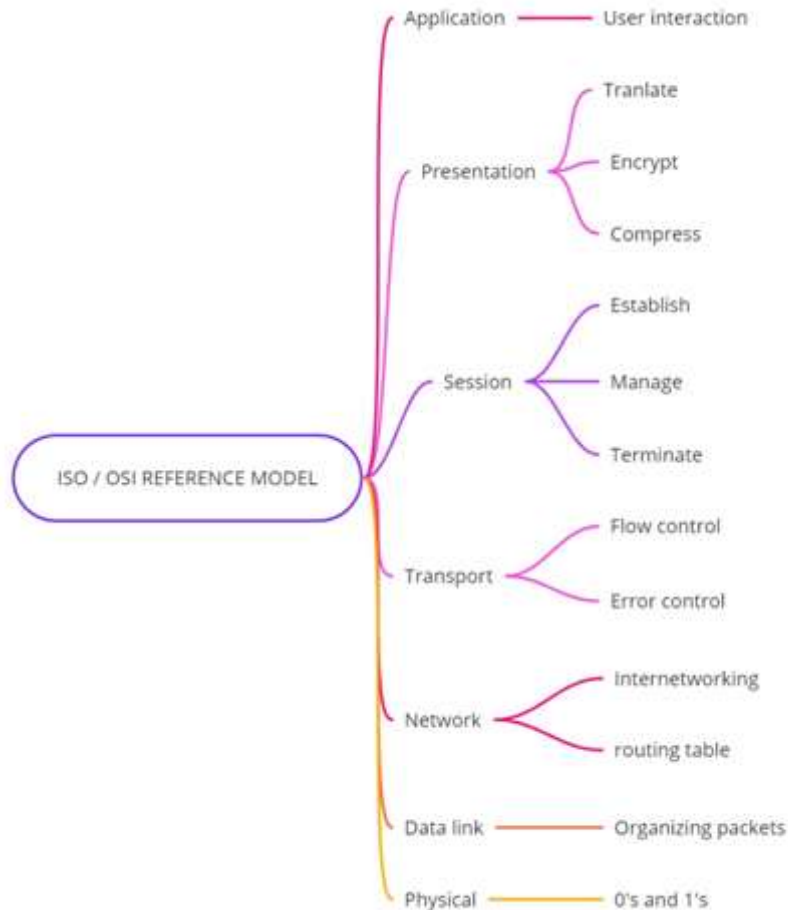|	
Department	Artificial Intelligence and Machine Learning
Degree & Semester:	B.Tech & V
Course code & Title:	21AM404 & COMPUTER NETWORKS
Unit Title:	FOUNDATION OF NETWORKING
CO / Lesson No (GO):	1/2

Specific Objectives (SO):

- SO1 Classify the seven layers of OSI model. [U/C]
- SO2 Interpret how the systems are interacting between layers in the OSI model. [U/C]
- SO3 Identify the functionalities of seven layers in the OSI model. [U/C]
- SO4 Infer the mechanism of four layers involved in TCP/IP protocol suite. [U/C]
- SO5 Compare the layers of protocols that are used in OSI and TCP/IP models. [U/C]

Mapping Table

SO	PO	PO/PSO Competency	PO/PSO Indicator
SO1	1	1.3	1.3.1
SO2	1,5	1.4,5.1	1.4.1,5.1.5,5.4.2
SO3	1,6	1.4,6.1	1.4.1,1.4.2,6.1.1
SO4	1,6	1.5,6.1,6.2	1.5.1,6.1.2,6.2.1
SO5	1,7	1.5,7.1	1.5.1,7.1.1

Mind map

Summary

- Layers

  - Application Layer - Layer 1
  - Presentation Layer - Layer 2
  - Session Layer - Layer 3
  - Transport Layer - Layer 4
  - Network Layer - Layer 5
  - Datalink Layer - Layer 6
  - Physical Layer - Layer 7

References (Books/Videos/Journals/Web references)

1. Behrouz A.Forouzan, Data Communication and Networking, 5th Edition, Tata McGraw-Hill, 2014

2. James F.Kurose and Keith W.Ross, Computer Networking: A Top-Down Approach Featuring the Internet, Pearson Education, 2005

3. Larry L.Peterson and Bruce S.Davie, Computer Networks, Elsevier, 2009

4. Andrew S.Tanenbaum, Computer Networks, Pearson Education, 2008

5. William Stallings, Data and Computer Communication, Pearson Education, 2007

6. Douglas E.Comer and M.S.Narayanan, Computer Networks and Internets, Pearson Education, 2008

7. https://www.geeksforgeeks.org/layers-of-osi-model/

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