

**SIR SYED UNIVERSITY OF ENGINEERING & TECHNOLOGY
DEPARTMENT OF COMPUTER SCIENCE**

SPRING 2021

**DATA COMMUNICATION AND NETWORKS (CS-328)
Assignment 3**

Semester: IV
Due Date: May 27, 2021

Batch: 2019
Max Marks: 10

Task- 1 [4 marks]

Select, study and understand one of the following topics and prepare a presentation/ notes:

Recommended Book (but not limited): Computer Networking: a top-down approach / James F. Kurose, Keith W. Ross.—6th / 7th ed.

Chapter-4

1. 4.5: Routing Algorithms. **Page 363-365**
2. 4.5.1 The Link-State (LS) Routing Algorithm. **Page 366-371**
3. 4.5.2 The Distance-Vector (DV) Routing Algorithm. **Page 371-379**
4. 4.5.3 Hierarchical Routing. **Page 379-383**
5. 4.6.1 Intra-AS Routing in the Internet: RIP. **Page 383-388**
6. 4.6.2 Intra-AS Routing in the Internet: OSPF. **Page 388-390**
7. Any other topic from chapter 4 with prior approval

Task- 2 [6 marks]

Present the selected topic in the assigned time slot.

The following instructions are needed to be followed:

1. Each group may consists of maximum 3 students. Each group member should equally participate in the presentation.
2. Duration of the presentation will be from 15 to 30 minutes.
3. Topics should equally be distributed among the groups and can be presented from any book.
4. **Group leader will upload the prepared presentation at VLE as an assignment.**
5. First slide should contains “Topic of presentation” and “roll numbers of group members”.

NOTE: Raising and facing questions will add extra points to your credit.