

## ***Routing Course***

### **Assignment 3: OSPF**

In the second assignment you shall

1. Restore the network you designed in Assignment 2 for testing RIP and OSPF.
2. Remove all dynamic and static routing from previous assignments, and setup OSPF on all routers.
3. Control the routing tables. Do ping and traceroute tests from at least one endpoint in the network to a “diagonal” endpoint.
4. Introduce an error in the network by shutting down a significant interface. Study the recover process (use debug) until an alternative path is working, and describe your findings. Make comparisons with corresponding task in Assignment 2 .
5. Study the selection of Designated router for a multiple access network. What is the purpose of the Designated Router? How is it elected? Are any other routers elected in this process? What happens when the network loses contact with the Designated Router?

Your task is to present your preparations, planning and the carrying out of practical lab, and your findings in a written report.

Before doing the practical lab you shall present a preliminary report covering your preparations and planning. This preliminary report must be approved before you may perform the actual lab.

Add significant part of significant configuration files to your report. An approved full report concludes this assignment.

***Good luck!***