**Lesson Plan Form**

**Course Title: Computer Networks**

**Course Code: ETE-331**

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| Title: **Open Shortest Path Fast (OSPF)** | | | Ref. No:  **ETE 331/20** | |
| Target Population: **25** | | | Duration  **90 minutes** | |
| Aims/Rationale: **This chapter discusses the features of Open Shortest Path Fast Routing protocol. Open Shortest Path First (OSPF) is a** [**routing protocol**](https://en.wikipedia.org/wiki/Routing_protocol) **for** [**Internet Protocol**](https://en.wikipedia.org/wiki/Internet_Protocol) **(IP) networks. Routers connect networks using the Internet Protocol (IP), and OSPF (Open Shortest Path First) is a**[**router**](http://searchnetworking.techtarget.com/definition/router)[**protocol**](http://searchnetworking.techtarget.com/definition/protocol)**used to find the best path for packets as they pass through a set of connected networks.** | | | | |
| **Learning Outcomes:** At the end of the session participant will be able to   * Describe OSPF terminology and operation within various enterprise environments. * Describe the function and operation of packets in OSPF routing. * Configure and verify basic OSPF. * Describe and configure OSPF in various WAN network types. * Configure and verify advanced OSPF features. * Configure and verify OSPF authentication. | | | | |
| **Content** | Method or Technique | Resource or Aid | | Time |
| Introduction: **Welcome address**  **Rapport building**  **Bridging topic**  **Layout/ content outline**  **Attendance**  **Pre-assessment** | **Lecture**  **Q/A** | **W/B** | | **10 minutes** |
| Development:  Section-A  **OSPF Fundamentals**  **OSPF Features**  Section-B  **Adjacency and Designated Routers**  **Link State Advertisements**  **OSPF Packet Types**  Section-C  **OSPF States**  **OSPF Metrics**  **Routing with OSPF** | **Lecture**  **Discussion**  **Do**    **Do** | **W/B**  **MMP**  **Video** | | **10 minutes**  **30 minutes**      **30 minutes** |
| Conclusion:  **Recap main points**  **Feedback & answer**  **Assessment of LOs**  **Reference**  **Forward plan** | **Lecture**  **Discussion**  **Q/A** |  | | **10 minutes** |
| Equipment & aids: **Optional** | | | | |