**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.
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| **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** |