**Lesson Plan Form**

**Course Title: Computer Networks**

**Course Code: ETE-331**

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| Title: **Routing Protocol** | Ref. No:**ETE 331/14** |
| Target Population: **25** | Duration**90 minutes** |
| Aims/Rationale: **After completing this lesson students will be able to learn the basics concepts of routing. A routing protocol specifies how routers communicate with each other, disseminating information that enables them to select routes between any two nodes on a computer network. Routing algorithms determine the specific choice of route and develop routing tables. Some of the most popular routing protocols consist of RIP, IGRP, EIGRP, OSPF, BGP and IS-IS.** |
|  **Learning Outcomes: At the end of the session participant will be able to :****1. Understand the routing basic concept.****2. Describe the primary functions and features of a router.****3. Describe the Routing Classifications.****4. Explain how routers use information in data packets to make forwarding decisions in a small to medium sized network.** **5. Compares ways in which a router builds table when operating in a small to medium sized business network.** |
| **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**Definition of routing protocol.****Describe the primary functions and features of a router.**Section-B**Functions of Router:** * **Why Routing?**
* **Routers are computers**
* **Router Interconnects networks**
* **Router Choose best path**
* **Packet Forwarding Methods**

Section-C**Describe the Routing classifications.****Explain the Static and Dynamic Routing.**Section-D**Connect Devices** * **Connect to a network**
* **Default Gateways**
* **Document Network Addressing**
* **Enable IP on a host**
* **Console Access**
* **Enable IP on a Switch**

**Configure Basic Router Settings****Configure a loopback interface****Verify Interface Settings****Command History Feature****Routing Table Sources**  | **Lecture****Discussion** **Do** **Do** **Do** | **W/B****MMP****Video** | **10 minutes** **20 minutes** **15 minutes** **25 minutes** |
| Conclusion:**Recap main points****Feedback & answer****Assessment of LOs****Reference****Forward plan** | **Lecture****Discussion****Q/A** |  | **10 minutes** |
| Equipment & aids: **Optional** |