**Lesson Plan Form**

**Course Title: Computer Networks**

**Course Code: ETE-331**

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| Title: **Ethernet Fundamentals** | | | Ref. No:  **ETE 331/08** | |
| Target Population: **25** | | | Duration  **90 minutes** | |
| Aims/Rationale: **After completing this lesson students will be able to know** | | | | |
| **Learning Outcomes: At the end of the session participant will be able to :**   * **Describe Ethernet topology.** * **Explain how CSMA/CD is used within an Ethernet LAN.** * **Compare and contrast two Ethernet frame types.** * **Describe the relationship between IEEE Ethernet standards and the OSI model.** * **Troubleshoot an Ethernet problem.** | | | | |
| **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  **Ethernet Networks introduction and it’s function.**  **Collision Domain**  Section-B  **Broadcast Domain**  **CSMA/CD**  **Half and Full-Duplex Ethernet**  Section-C  **Ethernet at the data link layer**   * **Ethernet addressing** * **Ethernet Frames**   **Ethernet at the Physical layer.**  Section-D  **Ethernet Cabling** | **Lecture**  **Discussion**    **Do**    **Do**      **Do** | **W/B**  **MMP**  **Video** | | **10 minutes**    **20 minutes**      **25 minutes**    **15 minutes** |
| Conclusion:  **Recap main points**  **Feedback & answer**  **Assessment of LOs**  **Reference**  **Forward plan** | **Lecture**  **Discussion**  **Q/A** |  | | **10 minutes** |
| Equipment & aids: **Optional** | | | | |