**Lesson Plan Form**

**Course Title: Computer Networks**

**Course Code: ETE-331**

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| Title: **Introduction to layered protocols and OSI model**  **Terminology in OSI** | | | Ref. No:  **ETE 331/03** | |
| Target Population: **25** | | | Duration  **90 minutes** | |
| Aims/Rationale: **To teach the students about the ISO/OSI Model of Computer Networks that how a connection is established and maintained by the ISO/OSI Protocols and It regulates how network devices are connected and the way information is transmitted.** | | | | |
| **Learning Outcomes: At the end of the session participant will be able to :**  **1. Understand the Introduction TCP/IP Model and get brief History of ISO/OSI Model.**  **2. Describe the layers of ISO/OSI Protocol and their functions.**  **3. Understand how allow manufactures of different systems to interconnect their equipment through standard interfaces.**  **4.** **Allow software and hardware to integration well and be portable on differing systems.**  **5. Understand the OSI Model protocol terminology.** | | | | |
| **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:  **Introduction of TCP/IP Model and brief History.**  **Discuss the importance for how network devices are connected and the way information is transmitted.**  Section-B  **OSI Model considered to be a 7 layers system. The seven layers are as** **follows:**   1. **The Physical Layer** 2. **The Data Link Layer** 3. **The Network Layer** 4. **The Transport Layer** 5. **The Session Layer** 6. **The Presentation Layer** 7. **The Application Layer**     Section-C  **Features of OSI model.**  **Describe the seven Layers working functions.**  **Draw the working diagram of each layers.**  Section-D  **Merits of OSI reference model**  **Demerits of OSI reference model** | **Lecture**  **Discussion**  **Do**      **Do**      **Do** | **W/B**  **MMP**  **Video** | | **15 minutes**  **20 minutes**    **25 minutes**    **10minutes** |
| Conclusion:  **Recap main points**  **Feedback & answer**  **Assessment of LOs**  **Reference**  **Forward plan** | **Lecture**  **Discussion**  **Q/A** |  | | **10 minutes** |
| Equipment & aids: **Optional** | | | | |