**Lesson Plan Form**

**Course Title: Computer Networks**

**Course Code: ETE-331**

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| Title: **Subnetting and VLSM(Variable Length Subnet Mask)** | | | Ref. No:  **ETE 331/06** | |
| Target Population: **25** | | | Duration  **90 minutes** | |
| Aims/Rationale: **To teach the students about the concept of Subnetting and VLSM .**  **How to create Subnets and Variable Length Subnet Mask to reduce the loss of IP address.** | | | | |
| **Learning Outcomes: At the end of the session participant will be able to :**   1. **Understand the Subnetting Basics.** 2. **How to create Subnets** 3. **Understand Subnet mask and CIDR (Classless Inter-Domain Routing).** 4. **Subnetting Class A, B ,C addresses.** 5. **Understand VLSM and It’s technique** 6. **Draw VLSM Design** 7. **Implementing VLSM Networks** 8. **Summarization** | | | | |
| **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 Subnetting and functions.**  **Explain the advantages of subnetting .**  Section-B  **How to create Subnets**  **Subnet mask and CIDR (Classless Inter-Domain Routing).**  **Subnetting Class A, B ,C addresses.**  Section-C  **Definition of VLSM and functions.**  **Explain the advantages and disadvantages of VLSM.**  Section-D  **Draw VLSM Design**  **Implementing VLSM Networks** | **Lecture**  **Discussion**  **Do**    **Do**  **Do** | **W/B**  **MMP**  **Video** | | **10 minutes**  **20 minutes**  **20 minutes**  **20 minutes** |
| Conclusion:  **Recap main points**  **Feedback & answer**  **Assessment of LOs**  **Reference**  **Forward plan** | **Lecture**  **Discussion**  **Q/A** |  | | **10 minutes** |
| Equipment & aids: **Optional** | | | | |