**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**
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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: **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** |