**Lesson Plan Form**

**Course Title: Digital and Satellite Communication**

**Course Code: ETE-452**

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| **Title:** Propagation Effects and Their Impact on Satellite –Earth Links |  **Ref. No:** ETE 452/08 |
| **Target Population:** 25 | **Duration :** 90 minutes |
| **Aims/Rationale:** After completing this lessons students are able to understand the different kind of propagation effects and their impact on Satellite Earth Links.  |
| **Learning Outcomes:** At the end of the session participant will be able to :1. Understand the introduction of the propagation effects and impact on satellite earth links.
2. Understand the Qualifying Attenuation and Depolarization
3. Understand the propagation effects that are not associated with Hydrometeors.
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| **Content** | **Method or Technique** | **Resource or Aid** | **Time** |
| **Introduction:** Welcome addressRapport buildingBridging topicLayout/ content outlineAttendancePre-assessment | LectureQ/A | W/B | 10 minutes |
| **Development:****Section-A**IntroductionQualifying Attenuation and Depolarization**Section-B**Propagation that are not associated with HydrometeorsCloud AttenuationTropospheric scintillation and low angle fading**Section-C**Definitions of Terms for Earth-Orbiting Satellite.  Orbital Elements.**Section-D**Satellite frequency bands.LEO,MEO,GEO | LectureDiscussionDoDoDo | W/BMMPVideo | 20 minutes15 minutes20 minutes15 minutes |
| **Conclusion:**Recap main pointsFeedback & answerAssessment of LOsReferenceForward plan | LectureDiscussionQ/A |  | 10 minutes |
| E**quipment & aids:** Optional |