Lesson Plan Form

**Course Title: Digital and Satellite Communication**

**Course Code: ETE-452**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Title:** Satellite Subsystems: Attitude and Orbit Control System | | | **Ref. No:** ETE 452/03 | |
| **Target Population:** 25 | | | **Duration:** 90 minutes | |
| **Aims/Rationale:** After completing these lesson students are able to understand about the Satellite Communication Notes on **Satellite Communication** Subsystems that are required on a spacecraft with details of attitude and orbit control system. | | | | |
| Learning Outcomes: At the end of the session participant will be able to :   1. Understand Attitude and Orbit Control System. 2. Determine the orbit control systems. 3. The architecture and design of the AOCS subsystem | | | | |
| **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**  Attitude and Orbit Control  Subsystem  AOCS Control Modes  **Section-B**  AOCS Functional Block Diagram  Attitude and Orbit Control Electronics  **Section-C**  Forces on a Satellite  Relationship between axes of a satellite | Lecture  Discussion  Do  Do | W/B  MMP  Video | | 10 minutes  30 minutes  30 minutes |
| **Conclusion:**  Recap main points  Feedback & answer  Assessment of LOs  Reference  Forward plan | Lecture  Discussion  Q/A |  | | 10 minutes |
| **Equipment & aids:** Optional | | | | |