Lecture Plan

Name of Subject: Telemetry And Data Processing

Class: B.Tech EIC (EIC 310C)

Semester: 6th

Name of the Faculty: KamalDeep Singh Malik

Unit/Section No.	Name of Topic	Number of Lectures Required
1	Block diagram of generalised instrument, description of various blocks	2
2	Modes of data transmission, various types of telemetry system	1
	Different Modulation Schemes: AM,FM,PCM	10
	Multiplexing Schemes: TDM and FDM	3
	Different types of wired and wireless channels	2
3	Across Track & Along Track Scanning	1
	Different Remote Sensing Techniques: MultiSpectral, Thermal, HyperSpectral, Microwave	6
	LIDAR	1
	Applications of Remote Sensing	1
4	Digital Vs Analog Signal Processing	1
	Counters & Flip-flops	3
	Display Methods like LED,LCD	3
	DIscussion on Converters	2

Textbook:

- **A Course in Electrical and Electronics Measurements and Instrumentation: A.K. Sawhney; Dhanpat Rai**
- **Lillesand, M.T. and Ralph, W., Remote Sensing and Image Interpreation, John Wiley (2004) 6th ed.**

Reference Book:

- **Electronics Instrumentation and Measurement Techniques, W.D. Cooper and A.D. Helfrick**
- **Measurement Systems and Analysis, E.O. Doeblien; TMH**