

Lesson Plan

VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, BURLA

Branch: **Civil Engineering**

Semester: **6th B.Tech**

Subject: **Advance Surveying**

Name of the Faculty: **Mr. Pratap Kumar Pradhan**

Theory/ Sessional: **Theory**

Class No.	Module No.	Topics to be Covered	Remarks
1	M-I	Theodolite, Classification of Theodolite, Different Parts	
2	M-I	Technical Terms related to Theodolite, Application , Traversing,	
3	M-I	Consecutive Co-ordinates, Numerical related to Consecutive Co-ordinates	
4	M-I	Calculation of Closing Error, Numerical related to Traversing,	
5	M-I	Balancing Consecutive co-ordinates and Numerical	
6	M-I	Omitted Measurement, Numerical	
7	M-I	Tacheometry Survey, Different Methods for calculation of horizontal distance and Elevation	
8	M-I	Tacheometry Survey, Different Methods for calculation of horizontal distance and Elevation	
9	M-I	Numerical related to Tacheometry Survey	
10	M-I	Curve, Terms, Elements,	
11	M-I	Compound Curve, Numerical	
12	M-I	Reverse Curve	
13	M-I	Reverse Curve	
14	M-I	Numerical related to Reverse Curve	
15	M-I	Transition Curve	
16	M-I	Transition Curve	
17	M-I	Numerical related to Transition Curve	
18	M-I	Triangulation survey, Triangulation Figure	
19	M-I	Strength of Figure, Numerical related to Triangulation	
20	M-II	Photogrammetric Surveying: Introduction, Types	
21	M-II	Technical Terms related to Photogrammetric Surveying, Scale of the Photograph	
22	M-II	Numerical related to scale of Photograph, Number of Photographs	
23	M-II	Ground Relief Displacement	
24	M-II	Numerical related to Ground Relief Displacement	
25	M-II	Field Astronomy: Introduction, Terms used in Field Astronomy	
26	M-II	Terms used in Field Astronomy	
27	M-II	Spherical Triangle	

28	M-II	Spherical Triangle Numerical	
29	M-III	Principles of Remote Sensing and Idealized Remote Sensing	
30	M-III	Geographic Information System	
31	M-III	Geographic Information System	
32	M-III	Application of Geographic Information System	
33	M-III	Application of Geographic Information System	
34	M-IV	Electronic distance measurement: Introduction	
35	M-IV	EDM	
36	M-IV	Total Station	
37	M-IV	Total Station	
38	M-IV	Global Positioning System	
39	M-IV	Application of GPS	
40	M-IV	Application of GPS	