

**VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY,
BURLA**

Semester: 4th
Session: 2016-17

LESSON PLAN

Subject: Surveying 1

Theory/ ~~Sessional~~

Branch/ Course: Civil Engineering/ B.Tech.

Name of the Faculty Member: Akash Kumar Naik

Period	Module/ Number	Topic to be covered	Remarks/ Sign. of Faculty Member
1	Module -I	Introduction to Surveying	
2		Concept of Surveying- Definition of surveying, Classification,	
3		Principle, Accuracy	
4		Linear Measurement- methods of direct measurement instrument	
5		Chaining on uneven slopping ground	
6		Chaining on uneven slopping ground	
7		Errors in Chaining, Corrections	
8		Chain Surveying – Chain triangulation	
9		Survey stn.,lines,	
10		Locating ground features	
11		field work,	
12		Instruments for setting out basic problems in chaining	
13		work, instruments for setting out basic problems in chaining	
14		obstacles in chaining	
15	Module -II	Compass Surveying – Principles use of Prismatic Compass	
16		Measurement of bearings,	
17		Conversion of bearings	
18		Local attraction, Correction of compass traverse.	
19		Correction of compass traverse.	
20		Plane Table Survey- Principles,	
21		Advantages and disadvantages, Equipment	
22		Accessories and their uses	
23		Methods of plane table survey	
24		Two point problems	
25	Three point problems		
26	Module - III	Levelling- Types of levelling and their uses	
27		Permanent adjustment	
28		Curvature and refraction effects	
29		Contouring-Characteristics and uses of contours.	

30		Methods of contouring	
31		Theodolite Survey–Application in Height and distance measurements	
32		Theodolite Survey–Application in Height and distance measurements	
33		Permanent adjustment of transit theodolite	
34		Methods of repetitions and reiterations.	
35		Methods of repetitions and reiterations.	
36	Module - IV	Curve setting- simple circular curve by chain	
37		simple circular curve by theodolite	
38		Minor surveying instrument- Box sextant	
39		planimeter working	
40		Pentagraph working	
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Signature of Faculty Member:

Date:

Counter Signature of H.O.D.