

Week	Theory		Topic covered and Remarks		
	Lecture Day	Topic (Including assignment / Test)	Date	HOD	Director principal
1 st	1	Fundamental Principles of Surveying: Definition , objects, classification, fundamental principles, methods of fixing stations			
	2	Measurement of distances: Direct measurement, instruments for measuring distance			
	3	Instruments for making stations, chaining of line, errors in chaining, tape correction examples			
2 nd	4	Compass and Chain Traversing: Methods of traversing			
	5	Instruments for measurement of angles-prismatic and surveyor's compass			
	6	Bearing off lines, local attraction, examples.			
3 rd	7	Leveling: Definition of terms used in leveling, types of levels and staff			
	8	Temporary adjustment of levels, principles of leveling			
	9	Reduction of levels, booking of staff readings examples			
4 th	10	characteristics of contours lines, locating contours, interpolation of contours			
	11	Plane Table Surveying: Plane table, methods of plane table surveying			
	12	Radiation, intersection, traversing and resection			
5 th	13	Two point and three point problems			
	14	Theodolite and Theodolite Traversing: Theodolites, temporary adjustment of theodolite			
	15	Measurement of angles, repetition and reiteration method			
6 th	16	Traverse surveying with theodolite, checks in traversing			
	17	Checks in traversing			
	18	Adjustment of closed traverse			
7 th	1st Minor Test				
8 th	19	Examples			
	20	Tacheometry: Uses of tacheometry			
	21	Tacheometry: Uses of tacheometry			

9 th	22	Principle of tacheometric surveying			
	23	Principle of tacheometric surveying			
	24	Surveying, instruments used in tacheometry,			
10 th	25	Systems of tacheometric surveying-stadia system fixed hair method			
	26	Systems of tacheometric surveying-stadia system fixed hair method			
	27	Determination of tacheometric constant			
11 th	28	Tangential systems, examples			
	29	Tangential systems, examples			
	30	Curves: Classification of curves			
12 th	31	Curves: Classification of curves			
	32				
	33	Elements of simple circular curve			
13 th	34	Location of tangent points-chain and tape methods			
	35	Instrumental methods			
	36	Examples of simple curves.			
14th	2nd Minor test				
15 th	37	Transition Curves-Length and types of transition curves			
	38	Length of combined curve, examples			
	39	Vertical Curves: Necessity and types of vertical curve			