



ACADEMIC LESSION PLAN FOR SUMMER 6<sup>TH</sup> SEMESTER 2023 .

Deptt. Of Civil Engg. , Govt. Polytechnic ,Balasore.

Name of the Faculty : FRANKAN KUMAR BASA

SURVEY-II

Course Code : Th-1  
 Theory : 5 P/W  
 Total Periods : 75 P/ Sem  
 Examination : 3 Hours  
 Semester : 6<sup>TH</sup>

Class Test : 20 Marks  
 End Semester Exam : 80marks  
 TOTAL MARKS : 100 Marks  
 START : 14/02/2023

WEEK	PERIOD	TOPIC
1 <sup>st</sup>	1 <sup>st</sup>	Tacheometry
	2 <sup>nd</sup>	Concepts of Tacheometry
	3 <sup>rd</sup>	Application of Tacheometry
	4 <sup>th</sup>	Principles of Tacheometry
	5 <sup>th</sup>	Stadia constants determination
2 <sup>nd</sup>	1 <sup>st</sup>	Stadia Tacheometry with staff held vertical Line of collimation horizontal or inclined
	2 <sup>nd</sup>	Numerical problems
	3 <sup>rd</sup>	Elevations and distances of staff stations
	4 <sup>th</sup>	Numerical problems
	5 <sup>th</sup>	Compound, reverse and transition curve
3 <sup>rd</sup>	1 <sup>st</sup>	Purpose & use of different types of curves in field
	2 <sup>nd</sup>	Elements of circular curves, numerical problems
	3 <sup>rd</sup>	Preparation of curve table for setting out of circular curve by chain and tape and by instrument angular methods
	4 <sup>th</sup>	(i) offsets from long chord, (ii) successive bisection of arc, (iii) offsets from tangents,
	5 <sup>th</sup>	(iv) offsets from chord produced, (v) Rankine's method of tangent angles (No derivation)
4 <sup>th</sup>	1 <sup>st</sup>	Obstacles in curve ranging
	2 <sup>nd</sup>	point of intersection inaccessible
	3 <sup>rd</sup>	Fractional or Ratio Scale, Linear Scale, Graphical Scale
	4 <sup>th</sup>	What is Map, Map Scale and Map Projections ,How Maps Convey Location and Extent
	5 <sup>th</sup>	How Maps Convey characteristics of features ,How Maps Convey Spatial Relationship .
5 <sup>th</sup>	1 <sup>st</sup>	Classification of Maps
	2 <sup>nd</sup>	Physical Map
	3 <sup>rd</sup>	Topographic Map, Road Map ,Political Map
	4 <sup>th</sup>	Economic & Resources Map
	5 <sup>th</sup>	Thematic Map ,Climate Map
	1 <sup>st</sup>	Open Series map
	2 <sup>nd</sup>	Defense Series Map
	3 <sup>rd</sup>	Map Nomenclature