LESSON P	LAN- SUMMER 2023
Discipline-Civil Engineering	Semester 6th
Semester from date- 14.02,2023 to 23,05,2023	No of Weeks- 15
No of classes allotted(hours/week)-05	Total Period 75

No of classes allotted(hours/week)-05 Total Period- 75
Subject-Land Surveying - II Subject Code-15.01

Name of WEEK	the Teaching MONTH	Faculty- Sudhash		des
WEEK	MONTH	DATE/ CLASS DAY	PERIOD AVAILABLE	TOPICS TO BE COVERED
		15.02.2023	1 2	TACHEOMETRY: (Only concepts; applications
	N			without derivation) 1.1 Principles, stadia constants
1"				determination
	FEBRUARY	16.02.2023		1.2 Stadia tacheometry with staff held vertical and
				with line of collimation horizontal or inclined,
	1			numerical problems
		20,02,2023	2	1.3 Elevations and distances of staff stations -
	~			numerical problems
		22.02.2023	2	CURVES: 2.1 compound, reverse and transition
2 <sup>nd</sup>	$\mathbf{m}$			curve, Purpose & use of different types of curves a
1				field
	-	23.02.2023	I	2.2 Elements of circular curves, numerical
	poduce			problems
		27.02.2023	2	2.3 Preparation of curve table for setting out
		01.03.2023	2	2.4 Setting out of circular curve by chain and tape
				and by instrument angular methods (i) offsets from
				long chord, (ii) successive bisection of arc, (iii)
3 <sup>rd</sup>				offsets from tangents, (iv) offsets from chord
				produced, (v) Rankine's method of tangent angles
1	<u> </u>			(No derivation)
		02.03.2023	1	2.5 Obstacles in curve ranging - point of
	_			intersection inaccessible.
		03.03.2023		Monthly Class test-(February)
4 <sup>th</sup>		06.03.2023	2	BASICS ON SCALE AND BASICS OF MAP:
	(7)	9.03.2023	1	3.1 Fractional or Ratio Scale, Linear Scale.
				Graphical Scale
		3.03.2023	2 .	3.2 What is Map, Map Scale and Map Projections
$5^a$	1.	5.03.2023	2	3.3 How Maps Convey Location and Extent
		6.03.2023	1	3.4 How Maps Convey characteristics of features
	$\sum$ 20	0.03.2023	2 .	3.5 How Maps Convey Spatial Relationship
P	22	2.03.2023	2	3.5.1 Classification of Maps 3.5.1 Physical Map
		į	!	3.5.2 Topographic Map 3.5.3 Road Map 3.5.4
h j			ĺ	Political Map 3.5.5 Economic & Resources Map
	İ			3.5.6 Thematic Map 3.5.7 Climate Map
	23	.03.2023	1	SURVEY OF INDIA MAP SERIES: 4.1 Open
				Sories map
	27.	03.2023	2	4.2 Detense Series Map
	29.	03.2023		4.3 Map Nomenclature
		03.2023	NAME AND ADDRESS OF THE PARTY O	Monthly Class Test-(March)
		04.2023		4.3.1 Quadrangle Name 4.3.2 Latitude, Longitude
	700.	1		UTM's 4.3.4 Contour Lines 4.3.5 Magnetic
				Declination 4.3.6 Public Land Survey System 4.3.
			4	
J				Field Notes

	8"	h	05.04.2023	2	BASICS OF AERIAL PHOTOGRAPHY, PHOTOGRAMMETRY, DEM AND ORTHO IMAGE GENERATION: 5.1 Aerial Photography:
			06.01.2023	1	5.1.1 Film, Focal Length, Scale 5.1.2 Types of Aerial Photographs (Oblique, Straight)
			10.04.2023	2	5.2 Photogrammetry: 5.2.1 Classification of Photogrammetry, 5.2.2 Aerial Photogrammetry, 5.2.3 Terrestrial Photogrammetry
	9 <sup>th</sup>		12.04.2023	2	5.3 Photogrammetry Process: 5.3.1 Acquisition of Imagery using aerial and satellite platform 5.3.2 Control Survey
			13.04,2023	I	5.3.3 Geometric Distortion in Imagery Application of Imagery and its support data Orientation and Triangulation Stereoscopic Measurement 19.9.1 X-parallax 19.2.2 Y-parallax
		-	17.04.2023	2	5.4 DTM/DEM Generation 5.5 Ortho Image Generation
		APRIT	19.04.2023	2	MODERN SURVEYING METHODS: 6.1 Principles, features and use of (i) Micro-optic theodolite, digital theodolite
	10 <sup>th</sup>	X	20.04.2023	1	6.2 Working principles of a Total Station (Set up and use of total station to measure angles, distances of points under survey from total station and the co-ordinates (X,Y & Z or northing, easuing, and elevation) of surveyed points relative to Total Station position using trigonometry and triangulation.
			24.04.2023	2	BASICS ON GPS & DGPS AND ETS: 7.1 GPS: - Global Positioning 7.1.1 Working Principle of GPS,GPS Signals 7.1.2 Errors of GPS,Positioning Methods
]	114		26.04.2023	2	7.2 DGPS: - Differential Global Positioning System 7.2.1 Base Station Setup 7.2.2 Rover GPS Set up
			27.04.2023	.1	7.2.3 Download, Post-Process and Export GPS data 7.2.4 Sequence to download GPS data from flashcards 7.2.5 Sequence to Post-Process GPS data
			28.04.2023		Monthly Class Test-(April)
			01.05.2023	2	7.2.6 Sequence to export post process GPS data 7.2.7 Sequence to export GPS Time tags to file
12	th		03.05.2023	2	7.3 ETS: - Electronic Total Station 7.3.1 Distance Measurement 7.3.2 Angle Measurement
		MAY	04.05.2023	I	7.3.3 Leveling 7.3.4 Determining position 7.3.5 Reference networks 7.3.6 Errors and Accuracy
		<b>&gt;</b>	08.05.2023	2	BASICS OF GIS AND MAP PREPARATION USING GIS 8.1 Components of GIS, Integration of Spatial and Attribute Information 8.2 Three

	TOTAL~	64	
15 <sup>th</sup>	22.05.2023	2	REVISION
	18.05.2023	11	REVISION
	17.05.2023	2	REVISION
14 <sup>th</sup>	15,05,2023	2	8.10 Removing Borders, 8.11 Adding and editing map information, 8.12 Finalize the map
	11.05.2023	1	8.7 Editing the layers, 8.8 Switching to Layout View, 8.9 Change page orientation.
13 <sup>sk</sup>	10.05.2023	2	8.3 Spatial Data Model 8.4 Attribute Data Management and Metadata Concept 8.5 Prepare data and adding to Arc Map. 8.6 Organizing data as layers.
		*****	Views of Information System 8.2.1 Database or Table View, Map View and Model View

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Concerned Faculty

No of classes allotted(hours/week)-05 Total Period- 75									
TOTAL	paragraphy and specifical streets of the control of								
Subject-Land Surveying - I Subject Code-Th.03									
Name of the Teaching Faculty- Sudhashree Munda									
WEEK MONTH DATE/ PERIOD TOPICS TO BE COVERED									
CLASS DAY AVAILABLE									
14.02.2023  1 Briefing about the syllabus, Introduction to the so objective and practical application of it, Mark dist reference book etc.	ribution								
1st 16.02.2023 1 Chapter-1: INTRODUCTION TO SURVEYIN MEASUREMENTS: 1.1 Surveying: Definition, Aims and objectives	NG, LINEAR								
17.02.2023 1 1.2 Principles of survey-Plane surveying- Geodeti Instrumental surveying.	ic Surveying-								
20.02.2023  2 1.3 Precision and accuracy of measurements, instr measurement of distance, Types of tapes and chair	ruments used for								
21.02.2023  1 1.4 Errors and mistakes in linear measurement – of Sources of errors and remedies.	classification,								
2nd  17.02.2023  1 1.2 Principles of survey-Plane surveying- Geodetic Instrumental surveying.  20.02.2023  2 1.3 Precision and accuracy of measurements, instrument of distance, Types of tapes and chain Sources of errors and mistakes in linear measurement of Sources of errors and remedies.  23.02.2023  1 1.5 Corrections to measured lengths due to-incorrections. & REVISION  24.02.2023  1 Chapter-2: CHAINING AND CHAIN SURVEY 2.1 Equipment and accessories for chaining	rect length, m applying								
24.02.2023 1 Chapter-2: CHAINING AND CHAIN SURVEY 2.1 Equipment and accessories for chaining	(ING :								
27.02.2023 2 2.2 Ranging – Purpose, signaling, direct and indirect ranger – features and use, error due to incorrect ranger –	anging.								
28.02.2023  1 2.3 Methods of chaining — Chaining on flat ground sloping ground — stepping method, Clinometer-feat slope correction.	l, Chaining on								
3 <sup>rd</sup> 01.03.2023 Monthly Class test-(February)									
02.03.2023  1 2.4 Setting perpendicular with chain & tape, Chain different types of obstacles –Numerical problems of across obstacles.	ning across on chaining								
03.03.2023 1 2.5 Purpose of chain surveying, Its Principles, cond book.	cept of field								
06.03.2023 2 2.6 Selection of survey stations, base line, tie lines,	Check lines.								
27 Offsets – Necessity, Perpendicular and Oblique									
10.03.2023 1 2.8 Errors in chain surveying – compensating and errors causes & remedies, Precautions to be taken surveying. & REVISION.									
Instruments for setting offset – Cross Staff, Optica  10.03.2023  1 2.8 Errors in chain surveying – compensating and errors causes & remedies, Precautions to be taken surveying. & REVISION.  13.03.2023  2 Chapter-3: ANGULAR MEASUREMENT AND SURVEYING: 3.1 Measurement of angles with chain, tape & com 3.2 Compass – Types, features, parts, merits & den adjustment of compass	npass								
1 3.3 Designation of angles- concept of meridians – arbitrary; Concept of bearings – Whole circle bear bearing, Reduced bearing, suitability of application problems on conversion of bearings	ring, Quadrantal n, numerical								
16.03.2023 1 3.4 Use of compasses – setting in field-centering, l	eveling, taking								

LESSON PLAN- SUMMER 2023
Semester-4th

Discipline-Civil Engineering

		and the second s	teres de seu a la compansión de la compa	readings, concepts of Fore bearing, Back Bearing, Numerical problems on computation of interior & exterior angles from bearings
		17.03.2023	1	3.5 Effects of earth's magnetism—dip of needle, magnetic declination, variation in declination, numerical problems on application of correction for declination
		20.03.2023	2	3.6 Errors in angle measurement with compass sources & remedies
6 <sup>th</sup>		21.03.2023	1	3.7 Principles of traversing—open & closed traverse. Methods of traversing.
ь		23.03.2023	1	3.8 Local attraction - causes, detection, errors, corrections,  Numerical problems of application of correction due to local attraction.
		24.03.2023	1	8.9 Errors in compass surveying - sources & remedies. Plotting of traverse - check of closing error in closed & open traverse.  Bowditch's correction, Gales table. & REVISION
		27.03.2023	2	Chapter-4: MAP READING CADASTRAL MAPS & NOMENCLATURE: 4.1 Study of direction, Scale, Grid Reference and Grid Square Study of Signs and Symbols
7 <sup>th</sup>		28.03.2023	1	4.2 Cadastral Map Preparation Methodology
		29.03.2023		Monthly Class Test-(March)
		31.03.2023	1	4.3 Unique identification number of parcel 4.4 Positions of existing Control Points and its types
-		03.04.2023	2	4.5 Adjacent Boundaries and Features, Topology Creation and verification. & REVISION
8 <sup>th</sup>		04.04.2023	1	Chapter-5: PLANE TABLE SURVEYING: 5.1 Objectives, principles and use of plane table surveying. 5.2 Instruments & accessories used in plane table surveying
		06.04.2023	1	5.3 Methods of plane table surveying – (1) Radiation, (2) Intersection, (3) Traversing, (4) Resection.
		10.04.2023	2	5.4 Statements of TWO POINT and THREE POINT PROBLEM. Errors in plane table surveying and their corrections. precautions in plane table surveying. & <b>REVISION</b>
9 <sup>th</sup>		11.04.2023	1	Chapter-6: THEODOLITE SURVEYING AND TRAVERSING: 6.1 Purpose and definition of theodolite surveying
	APRII	13.04.2023	1	6.2 Transit theodolite- Description of features, component parts, Fundamental axes of a theodolite, concept of vernier, reading a vernier, Temporary adjustment of theodolite
		17.04.2023	2	6.3 Concept of transiting –Measurement of horizontal and vertical angles.
		18.04.2023	1	6.4 Measurement of magnetic bearings, deflection angle, direct angle, setting out angles, prolonging a straight line with theodolite, Errors in Theodolite observations.
10 <sup>th</sup>		20.04.2023	1	6.5 Methods of theodolite traversing with – inclined angle method, deflection angle method, bearing method, Plotting the traverse by coordinate method, Checks for open and closed traverse.
		21.04.2023	1	6.6 Traverse computation – consecutive coordinates, latitude and departure, Gale's traverse table, Numerical problems on omitted measurement of lengths & bearings
11 <sup>th</sup>		24.04.2023	2	6.7 Closing error – adjustment of angular errors, adjustment of bearings, numerical problems 6.8 Balancing of traverse –

			1	Bowditch's method, transit method, graphical method, axis
		25.04.2023		method, calculation of area of closed traverse. & REVISION
		25.04.2025	1	Chapter-7: LEVELLING AND CONTOURING:
	1			7.1 Definition and Purpose and types of leveling—concepts of level
	1	26.04.2023	<del></del>	surface, Horizontal surface, vertical surface, datum, R. L., B.M.
				Monthly Class Test-(April)
		27.04.2023	1	7.2 Instruments used for leveling, concepts of line of collimation, axis of bubble tube, axis of telescope, Vertical axis.
		28.04.2023	1	7.3 Levelling staff – Temporary adjustments of level, taking reading with level, concept of bench mark, BS, IS, FS, CP, HI.
		01.05.2023	2	7.4 Field data entry - level Book - height of collimation method
				and Rise & Fall method, comparison, Numerical problems on
12 <sup>th</sup>				reduction of levels applying both methods, Arithmetic checks.
		02.05.2023	1	7.5 Effects of curvature and refraction, numerical problems on
				application of correction.
	1	04.05.2023	1	7.6 Reciprocal leveling – principles, methods, numerical problems,
	_			precise leveling.
1		08.05.2023	2	7.7 Errors in leveling and precautions, Permanent and temporary
	1		'	adjustments of different types of levels.
		09.05.2023	1	7.8 Definitions, concepts and characteristics of contours.
13 <sup>th</sup>		11.05.2023	1	7.9 Methods of contouring, plotting contour maps, Interpretation
	1		_	of contour maps, toposheets.
	MAY	12.05.2023	1	7.10 Use of contour maps on civil engineering projects - drawing
				crosssections from contour maps, locating proposal routes of roads
				/ railway / canal on a contour map, computation of volume of
				earthwork from contour map for simple structure.
		15.05.2023	2	7.11 Map Interpretation: Interpret Human and Economic
				Activities (i.e.: Settlement, Communication, Land use etc.),
				Interpret Physical landform (i.e.: Relief, Drainage Pattern etc.),
14 <sup>th</sup>				Problem Solving and Decision Making & REVISION
14		16.05.2023	1	Chapter-8: COMPUTATION OF AREA & VOLUME:
				8.1 Determination of areas, computation of areas from plans.
		18.05.2023	1	8.2 Calculation of area by using ordinate rule, trapezoidal rule.
				Simpson's rule.
		22.05.2023	2	8.3 Calculation of volumes by prismoidal formula and trapezoidal
15 <sup>th</sup>				formula, Prismoidal corrections, curvature correction for volumes.
13				& REVISION
		23.05.2023	1	REVISION
	•	Total=	65	

Concerned Faculty

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		LESSON	N PLAN- SUMMER 2023
	ivil Engineering		Semester-4 <sup>th</sup>
	m date- 14.02.20		
	allotted(hours/w		Total Period-105
	l Survey Practice		Subject Code-Pr.01
	Teaching Faculty	- Sudhashred PERIOD	Munda TOPICS TO BE COVERED
WEEK NIC	CLASS DAY		
1 st	20.02.2023	3	Linear Measurements, Chaining and Cha Surveying: 1.1 Testing and adjusting of a metric chain. 1.2 Measurement of distance between two points (mo than 2 chain lengths apart) with chain including
>			direct ranging.  1.3 Setting out different types of triangles, given the lengths of sides with chain and tape.
FEBRITARY	25.02.2023	4	1.4 Measurement of distance between two points to chaining across a sloped ground using steppin method and a clinometer.  1.5 Measurement of distance by chaining across obstacles on the chain line i) a pond ii) a building iii a stream/river (in the event of non-availability of stream / river, a pond or lake may be taken considering that chaining around the same is not possible.
	27.02.2023	3	<ul> <li>1.6 Setting perpendicular offsets to various objects (a least 3) from a chain line using-(1) tape, (2) cross staff, (3) optical square and comparing the accuracy of the 3 methods.</li> <li>1.7 Setting oblique offsets to objects (at least 3) from a chain using tape</li> </ul>
	04.03.2023	4	Angular Measurement and Compass Surveying:
			<ul><li>2.1 Testing and adjustment of Prismatic compass and Surveyor's compass.</li><li>2.2 Measurement of bearings of lines (at least 3 lines) and determination of included angles using Prismatic compass and Surveyor's compass.</li></ul>
MARCH	06.03.2023	3	2.3 Setting out triangles (at least 2) with compass, given the length and bearing of one side and included angles.  2.4 Setting out a closed traverse of 5 sides, using prismatic compass, given bearing of one line and included angles and lengths of sides.
MA	11.03.2023	4	2.5 Conducting chain and compass traverse surveying in a given plot of area (2plots) and recording data in the field book. (5 to 6 students/groups).
	13.03.2023	3	Map Reading Cadastral Maps & Nomenclature: 3.1 Study of direction, Scale, Grid Reference and Grid
			Square 3.2 Study of Signs and Symbols 3.3 Cadastral Map Preparation Methodology

4<sup>th</sup>

5 <sup>th</sup>		20.03.2023		3.5 Positions of existing Control Points and its types 3.6 Adjacent Boundaries and Features. Topology Creation and verification.  Plane Table Surveying: 4.1 Setting up of Plane Table and Plotting five points by radiation method and five inaccessible points by intersection method.  4.2 Conducting Plane Table surveying in a given plot of
6 <sup>th</sup>		27.03.2023	3	area by traversing (At least a 5-sided traverse and locating the objects) 4.3 Plane table surveying by Resection method (two
7 <sup>th</sup>		03.04.2023	3	Theodolite Traversing:  5.1 Measurement of horizontal angles (3nos.) by repetition and reiteration method and compare two methods  5.2 Prolonging a given straight line with the help of a theodolite
		08.04.2023	4	5.3 Determination of magnetic bearing of 3 given straight lines. Setting out a closed traverse with 6 sides and entering the field data 5.4 Plotting the traverse from exercise 4.1 and checking the error of closure
8 <sup>th</sup>		10.04 2023	3	5.5 Setting out an open traverse with 5 sides and entering the field data. 5.6 Plotting the traverse from exercise 4.3 and checking the error of closure.
		15.04.2023	4	Leveling and Contouring: 6.1 Making temporary adjustments of Levels 6.2 Determining Reduced Levels of five given points taking staff readings with Levels.
9ф	APRII	17.04.2023	3	6.3 Determining the difference of levels between two points (3 pairs of points / group) by taking staff readings form single set up of level, recording the readings in level book and application of Arithmetic check. (At least 3 change points must be covered). 6.4 Conduct Fly Leveling (Compound) between two distant points with respect to R.L. of a given B.M. and reduction of levels by both height of collimation and rise & fall method and applying Arithmetic check. (At least 3 change points must be covered)
		22.04.2023	4	6.5 Conduct profile leveling along the given alignment for a road / cana! for 150m length, taking L. S. at every 15m and C. S. at 1m & 3m apart on both sides at every 30m interval and recording the data in level book and applying arithmetical check.
10 <sup>th</sup>		24.04.2023	3	6.6 Locating contour points in the given area by direct method / indirect method 6.7 Conducting block level survey in the given area 6.8 Plotting and drawing contour map of a given area by

				radial method
		29.04.2023	4	6.9 Map Interpretation: Interpret Human and Economic Activities (i.e.: Settlement, Communication, Land use etc.), Interpret Physical landform (i.e.: Relief, Drainage Pattern etc.), Problem Solving and Decision Making.
11th		01.05.2023	3	Basics of Aerial Photography: 7.1 Film 7.2. Focal Length 7.3. Scale
		06.05.2023	4	7.4. Types of Aerial Photographs (Oblique, Straight)
12 <sup>th</sup>		08.05.2023	3	Basics of Photogrammetry, DEM and Ortho Image
				generation:
				Photogrammetry
				8.1 Classification of Photogrammetry
				8.2 Aerial Photogrammetry
				8.3 Terrestrial Photogrammetry
	MAY	13.05.2023	4 .	Photogrammetry Process: 8.4 Acquisition of Imagery using aerial and satellite platform 8.5 Control Survey
13 <sup>th</sup>		15.05.2023	3	8.6 Geometric Distortion in Imagery
				8.7 Application of Imagery and its support data 8.8 Orientation and Triangulation
		20.05.2023	4 ·	8.9 Stereoscopic Measurement: X-parallax and Y-
				parallax
	İ			8.10 DTM/DEM Generation
				8.11 Ortho Image Generation
l <sub>th</sub>		22.05.2023	3.	SUBMISSION OF RECORDS.
		TOTAL=	90	

Concerned Faculty

Principal O.S.M. F. Xe will be a

This objective and practical application of it, Mark distribution, reference book etc. TRIGONGMETQICAL SURVEYING, & TACHEOMETRY. 1.1 Determination of height of 3 objects whose bases are accessible 1.2 Determination of status constant of status constant of height of 3 objects whose bases are accessible 1.3 Determination of horizontal distance an elevation with Staff vertical, by stadia method with Staff vertical, by stadia method 23.02.2023 2 SETTING OUT CURVES AND SITE SURVEYING: 2.1 Setting out a simple circular curve by offsets from the tangent 2.2 Setting out a simple circular curve by offsets from the tangent 2.3 Setting out a simple circular curve by offsets from the tangent 2.4 Setting out a simple circular curve by offsets from the tangent 3.5 Setting out a simple circular curve by offsets from the given plan 15.03.2023 3 2.5 Setting out the foundation width of a object of tangent angle (Deflection angles) Setting out a site of tangent angle (Deflection angles) Setting out a simple circular curve by Ranking 5 and the center line and foundation width of a object of tangent angle (Deflection angles) Setting out a simple circular curve by Ranking 5 and the center line and foundation width of a object of tangent angle (Deflection angles) Setting out a simple circular curve by Ranking 5 and the center line and foundation width of a object of the center line and foundation width of a object of the center line and foundation width of a object of the center line and foundation width of a object of the center line and foundation width of a object of the center line and foundation width of a object of the center line and foundation width of a object of the center line and foundation width of a object of the center line and foundation width of a object of the center line and foundation width of a object of the center line and foundation width of a object of the center line and foundation width of a object of the center line and foundation width of a object of the center line and foundation width of a object of th		and the second s		ESSON PLAN-SUMMER 2023
Note Classes allotted (hours/week)-05 Subject-Land Survey Practice - II Name of the Teaching Faculty - Sudhashree Munda WEEK MONTH DATE/ PERIOD CLASS DAY AVAILABLE  1st 15.02.2023 3 Briefing about the syllabus, introduction to the side of distribution, reference book etc. TRICONOMETRICAL SURVEYING & TACHEOMETRY. 1.1 Determination of height of 3 objects whose bases are accessible height of 3 objects whose bases are accessible subject with Staff vertical, by stadia method  2a.02.2023 2 SETTING OUT CURVES AND SITE SURVEYING: 2.1 Setting out a simple circular curve by offsets from the tangent of subjects with Staff vertical, by stadia method  23.02.2023 2 SETTING OUT CURVES AND SITE SURVEYING: 2.1 Setting out a simple circular curve by offsets from the tangent of subjects with Staff vertical, by stadia method  2a.3 Setting out a simple circular curve by offsets from the tangent of subjects of the subject of subjects with staff vertical, by stadia method  4m 09.03.2023 2 Setting out a simple circular curve by offsets from the tangent of subjects with staff vertical, by stadia method  2a.3 Setting out a simple circular curve by offsets from the tangent of subjects with staff vertical, by stadia method and simple circular curve by offsets from the tangent of subjects with staff vertical, by stadia method and simple circular curve by offsets from the tangent of subjects with staff vertical, by stadia method of tangent angle (Deflection angles) Setting out a simple circular curve by offsets from the tangent of subjects with staff vertical, by offsets from the tangent of subjects with staff vertical, by stadia method of tangent angle (Deflection angles) Setting out a simple circular curve by offsets from the tangent of subjects with staff vertical, by stadia method of tangent angle (Deflection angles) Setting out a simple circular curve by offsets from the tangent of subjects with staff vertical, by stadia method of tangent angle (Deflection angles) Setting out a simple circular curve by offsets from the tangent of tange	Discipli	ne-Civil Engineering		
Subject Land Survey Practice   II   Name of the Teaching Faculty Sudhashree Munda   WEEK   MONTH   DATE/ PERIOD   AVAILABLE   TOPICS TO BE COVERED	Semest	er from date 14.02.202	3 to 23.05.2	023 No of Weeks 15
Name of the Teaching Faculty - Sudhashree Monda   WEEK   MONTH   CLASS DAY   PERIOD   AVAILABLE   15.02.20.23   3   Briefing about the syllabus, Introduction to the sub-older through the syllabus of the syllabus of the sub-older through the syllabus of the sub-older through the syllabus of the sub-older through the syllabus of the sub-older through the syllabus of the sub-older through the syllabus of the sub-older through the syllabus of the sub-older through the syllabus of the sub-older through the syllabus of the sub-older through the syllabus of the sub-older through the syllabus of the sub-older through the syllabus of the sub-older through the syllabus of the sub-older through the syllabus of the sub-older through the syllabus of the sub-older through the syllabus of the sub-older through the syllabus of the syllabus of the sub-older through the syllabus of the syllabus of the sub-older through the syllabus of the sylla	No of cla	isses allotted(hours/w	eek)-05	Total Period 75
Name of the Teaching Faculty - Sudhashree Monda   WEEK   MONTH   CLASS DAY   PERIOD   AVAILABLE   15.02.20.23   3   Briefing about the syllabus, Introduction to the sub-older through the syllabus of the syllabus of the sub-older through the syllabus of the sub-older through the syllabus of the sub-older through the syllabus of the sub-older through the syllabus of the sub-older through the syllabus of the sub-older through the syllabus of the sub-older through the syllabus of the sub-older through the syllabus of the sub-older through the syllabus of the sub-older through the syllabus of the sub-older through the syllabus of the sub-older through the syllabus of the sub-older through the syllabus of the sub-older through the syllabus of the sub-older through the syllabus of the sub-older through the syllabus of the syllabus of the sub-older through the syllabus of the syllabus of the sub-older through the syllabus of the sylla				Subject Code-Pr.02
TOPICS TO BE COVERED   TOPICS TO BE COVERED				Munda
The objective and practical application of it, Mark distribution, reference book etc. TRIGONGMETQICAL SURVEYING & TACHEOMETRY: 1.1 Determination of height of 3 objects whose bases are accessible 1.2 Determination of stadiac constants are supported by the property of stadiac constants and stance an elevative with Staff vertical, by stadia method with Staff vertical, by stadia method 23.02.2023 2 SETTING OUT CURVES AND SITE SURVEYING: 2.1 Setting out a simple circular curve by offsets from the tangent 2.2 Setting out a simple circular curve by offsets from the tangent 2.3 Setting out a simple circular curve by offsets from the tangent 2.3 Setting out a simple circular curve by offsets from the tangent 2.4 Setting out a simple circular curve by offsets from the tangent 3.5 Setting out a simple circular curve by offsets from the tangent 3.5 Setting out a simple circular curve by offsets from the given plan 3.5 Setting out the foundation width of a bundary from the given plan 3.5 Setting out the foundation line for a culvert 3.5 Sett	water and a second second second second second	MONTH DATE	/ P	ERIOD TOPICS TO BE COVERED
Strict   S	1 41		23 3	distribution , reference book etc. TRIGONOMETRICAL SURVEYING & TACHEOMETRY: 1.1 Determination of
100   100		16.02.202	3 2	1.2 Determination of stadia constants
100   100	2nd	22.02.202		
The tangent   1,2,3 Setting out a simple circular curve by offsets in a chords produces   2,4 Setting out a simple circular curve by Ranking's method of tangent angle (Deflection angles) Setting at a site the center line and foundation width of a outlet from the given plan   15.03.2023   3   2.5 Setting out the foundation line for a culvert   16.03.2023   2   2.6 Dividing an area into plots of given size   22.03.2023   3   STUDY OF MAP AND MAP SERIES: 3.1 Physical Map   23.03.2023   2   3.2 Topographic Map   29.03.2023   3   3.3 Road Map   05.04.2023   3   3.4 Political Map   06.04.2023   2   3.5 Economic & Resources Map   13.04.2023   2   3.7 Climate Map   13.04.2023   2   3.7 Climate Map   13.04.2023   2   3.8 Open Series map and Defense Series Map   20.04.2023   2   STUDY ON GPS & DGPS AND ETS:   4.1 GPS: - Global Positioning, GPS Signals, Errors of GPS, Positioning Methods   26.04.2023   3   4.2 DGPS: - Differential Global Positioning System		23.02.2023	3 2	2.1 Setting out a simple circular curve by offsets from
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method of tangent angle (Deflection angles) Setting of a site the center line and foundation width of a bender from the given plan  15.03.2023   3   2.5 Setting out the foundation line for a culvert  16.03.2023   2   2.6 Dividing an area into plots of given size  22.03.2023   3   STUDY OF MAP AND MAP SERIES: 3.1 Physical Map  23.03.2023   2   3.2 Topographic Map  23.03.2023   3   3.3 Road Map  05.04.2023   3   3.4 Political Map  06.04.2023   2   3.5 Economic & Resources Map  13.04.2023   2   3.7 Climate Map  13.04.2023   3   3.8 Open Series map and Defense Series Map  20.04.2023   2   STUDY ON GPS & DGPS AND ETS: 4.1 GPS: - Global Positioning, GPS Signals, Errors of GPS, Positioning Methods  26.04.2023   3   4.2 DGPS: - Differential Global Positioning System			2	chords produces
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(		27.04.2023	2	4.2.1 Base Station Setup

14 <sup>th</sup>		11.05.2023 17.05.2023 18.05.2023 TOTAL	2 3 2 65	and adding to Arc Map. 5.6 Organizing data as layers.  5.7 Editing the layers. 5.8 Switching to Layout View. 5.9 Change page orientation. 5.10 Removing Borders. 5.11 Adding and editing map information. 5.12 Finalize the map  Q/A Discussion for Viva.  SUBMISSION OF RECORDS.
13 <sup>th</sup>	MAY	10.05.2023		data 4.2.7 Sequence to export GPS Time tags to file  4.3 ETS: - Electronic Total Station 4.3.1 Distance Measurement 4.3.2 Angle Measurement 4.3.3 Leveling 4.3.4 Determining position 4.3.5 Reference networks 4.3.6 Errors and Accura J  STUDY OF GIS AND MAP PREPARATION USING GIS: 5.1 Components of GIS, Integration of Spatial and Attribute Information 5.2 Three Views of Information System 5.2.1 Database or Table View, Map View and Model View 5.3 Spatial Data Model 5.4 Attribute Data Management and Metadata Concept 5.5 Prepare data
120	th	03.05.20	23 3	4.2.2 Rover GPS Set up 4.2.3 Download, Post-Process and Export GPS data 4.2.4 Sequence to download GPS data from flashcards 4.2.5 Sequence to Post-Process GPS data 4.2.6 Sequence to export post process GPS

Concerned Faculty