

P.C.I.E.T., CHHENDIPADA, DIST- ANGUL

THEORY LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH : CIVIL ENGG. SEMESTER : 6TH, SECTION :- (C1 & C2)

NAME OF THE FACULTY : (1) ER. SUNIL KUMAR SAHU,
(LECT. IN CIVIL ENGG.)

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

SUBJECT: - LAND SURVEY - II (TH-1)

CLASS ALLOTTED / WEEK: 04 PERIODS

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
1	TACHEOMETRY:	9		
	Principles, stadia constants determination	1	February	Dt. 14.02.2023
	Numerical problems	1		Dt. 15.02.2023
	Stadia tacheometry with staff held vertical with line of collimation horizontal .	1		Dt. 16.02.2023
	Stadia tacheometry with staff held vertical with line of collimation inclined	1		Dt. 20.02.2023
	Numerical problems on tacheometry	1		Dt. 21.02.2023
	Elevations and distances of staff stations – numerical problems	1		Dt. 22.02.2023
	Numerical problems on tacheometry	1		Dt. 22.02.2023
	Numerical problems on tacheometry	1		Dt. 25.02.2023
	Numerical problems on tacheometry	1		Dt. 27.02.2023
2	CURVES :	8		
	Purpose & use of different types of curves in field	1		Dt. 28.02.2023
	Elements of circular curves, numerical problems	1		Dt. 28.02.2023
	Setting out of circular curve by chain and tape	1	March	Dt. 01.03.2023

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	Setting out of circular curve by instrument angular methods	1		Dt. 01.03.2023
	Preparation of curve table for setting out of curve	1		Dt. 04.03.2023
	Setting out of circular curve offsets from chord produced, offsets from tangents	1		Dt. 06.03.2023
	Setting out of circular curve offsets from long chord, Rankine's method of tangent angles	1		Dt. 11.03.2023
	Obstacles in curve ranging – point of intersection inaccessible	1		Dt. 13.03.2023
	BASICS ON SCALE AND BASICS OF MAP:	8		
	Fractional or Ratio Scale, Linear Scale, Graphical Scale	1		Dt. 14.03.2023
	What is Map, Map Scale and Map Projections	1		Dt. 15.03.2023
	How Maps Convey Location and Extent	1		Dt. 15.03.2023
3	How Maps Convey Spatial Relationship, Classification of Maps	1		Dt. 18.03.2023
	Climate Map, Thematic Map	1		Dt. 18.03.2023
	Topographic Map, Road Map	1		Dt. 20.03.2023
	Political Map	1		Dt. 21.03.2023
	Thematic Map	1		Dt. 22.03.2023
	SURVEY OF INDIA MAP SERIES:	10		
4	Open Series map	1		Dt. 22.03.2023
	Defense Series Map	1		Dt. 25.03.2023

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	Map Nomenclature	1		Dt. 27.03.2023
	Quadrangle Name	1		Dt. 28.03.2023
	Latitude, Longitude,	1		Dt. 29.03.2023
	Contour Lines	1		Dt. 29.03.2023
	Magnetic Declination	1		Dt. 29.03.2023
	Public Land Survey System	1	April	Dt. 03.04.2023
	Field Notes	1		Dt. 03.04.2023
	UTM's	1		Dt. 04.04.2023
	BASICS OF AERIAL PHOTOGRAPHY, PHOTOGRAMMETRY, DEM AND ORTHO IMAGE GENERATION :	10		
	Aerial Photography:	1		Dt. 05.04.2023
	Film, Focal Length, Scale	1		Dt. 05.04.2023
5	Types of Aerial Photographs (Oblique, Straight)	1		Dt. 08.04.2023
	Photogrammetry Classification of Photogrammetry	1		Dt. 08.04.2023
	Aerial Photogrammetry, Terrestrial Photogrammetry	1		Dt. 10.04.2023
	Photogrammetry Process: Acquisition of Imagery using aerial and satellite platform	1		Dt. 11.04.2023
	Control Survey Geometric Distortion in Imagery	1		Dt. 12.04.2023

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	Application of Imagery and its support data Orientation and Triangulation Stereoscopic Measurement	1		Dt. 12.04.2023
	DTM/DEM Generation	1		Dt. 15.04.2023
	Ortho Image Generation	1		Dt. 15.04.2023
	MODERN SURVEYING METHODS :	10		
	Principles, features and use of (i) Micro-optic theodolite	1		Dt. 17.04.2023
	Set up and use of total station to measure angles	1		Dt. 17.04.2023
	The co-ordinates (X,Y & Z or northing, easting, and elevation) of surveyed points relative to Total Station position using trigonometry	1		Dt. 18.04.2023
	The co-ordinates (X,Y & Z or northing, easting, and elevation) of surveyed points relative to Total Station position using trigonometry by triangulation.	1		Dt. 19.04.2023
6	Measurement of horizontal angle	1		Dt. 19.04.2023
	Measurement of vertical angle	1		Dt. 22.04.2023
	Measurement of horizontal distance	1		Dt. 22.04.2023
	Measurement of vertical distance	1		Dt. 24.04.2023
	Marking of co-ordinates of plan of a building	1		Dt. 25.04.2023
	Marking of BM	1		Dt. 26.04.2023

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	BASICS ON GPS & DGPS AND ETS:	10		
	GPS: - Global Positioning	1		Dt. 26.04.2023
	Working Principle of GPS, GPS Signals,	1		Dt. 29.04.2023
	Errors of GPS, Positioning Methods	1	May	Dt. 01.05.2023
	Base Station Setup, Rover GPS Set up	1		Dt. 01.05.2023
7	Download, Post-Process and Export GPS data Sequence to download GPS data from flashcards	1		Dt. 02.05.2023
	Sequence to Post-Process GPS data, Sequence to export post process GPS data	1		Dt. 03.05.2023
	Sequence to export GPS Time tags to file, ETS: - Electronic Total Station	1		Dt. 03.05.2023
	Distance Measurement, Angle Measurement	1		Dt. 06.05.2023
	Leveling, Determining position	1		Dt. 08.05.2023
	Reference networks, Errors and Accuracy	1		Dt. 09.05.2023
	BASICS OF GIS AND MAP PREPARATION USING GIS	10		
	Components of GIS, Integration of Spatial and Attribute Information	1		Dt. 10.05.2023
8	Three Views of Information System	1		Dt. 10.05.2023
	Database or Table View, Map View and Model View	1		Dt. 13.05.2023
	Spatial Data Model Attribute Data Management and Metadata Concept	1		Dt. 15.05.2023

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	Prepare data and adding to Arc Map. Organizing data as layers.	1		Dt. 16.05.2023
	Editing the layers.Switching to Layout View.	1		Dt. 17.05.2023
	Change page orientation	1		Dt. 17.05.2023
	Removing Borders.	1		Dt. 20.05.2023
	Adding and editing map information.	1		Dt. 22.05.2023
	Finalize the map	1		Dt. 23.05.2023

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THEORY LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH : CIVIL ENGG. SEMESTER : 6TH, SECTION :- (C1 & C2)

NAME OF THE FACULTY : (1) ER. BABITA SAHU (H.O.D., CIVIL ENGG.), (2) ER. SIDHANTA SEKHAR MAHAR (LECT. IN CIVIL ENGG.)

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

SUBJECT: - CONSTRUCTION MANAGEMENT (TH-2)

CLASS ALLOTTED / WEEK: 04 PERIODS

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
1	UNIT-1 : Introduction To Construction Management	4		
	Aims and objectives of construction management	1	FEBRUARY	14.02.2023
	Functions of construction management	1		15.02.2023
	The construction team components-owner,engineer,architect, contractor-their functions and interrelationship and jurisdiction	1		16.02.2023
	Resources for construction management-men,machines, materials, money	1		20.02.2023
2	UNIT-2 : Constructional Planning	7		
	Importance of Construction Planning	1		21.02.2023
	Developing work breakdown structure for construction work	1		22.02.2023
	Construction Planning stages-Pre-tender stage, Post-tender stage.	1		23.02.2023
	Construction scheduling by Bar charts-preparation of Bar Charts for simple construction works	1		27.02.2023
	Preparation of schedules for labour materials,machinery, finance for small works	1		28.02.2023
	Limitation of Bar charts	1		28.02.2023

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	Construction scheduling by network techniques- definition of terms ,PERT and CPM techniques, Advantages and disadvantages of two techniques, network analysis, estimation of time and critical path, application of PERT and CPM techniques in sample construction works	1	MARCH	01.03.2023
3	UNIT-3 : Materials and Stores Management	4		
	Classification of Stores-storage of stock	1		02.03.2023
	Classification of Stores-storage of stock	1		06.03.2023
	Issue of materials-indent , invoice, bin card	1		09.03.2023
	Issue of materials-indent , invoice, bin card	1		13.03.2023
4	UNIT-4 : Construction Site Management	5		
	Job Lay out-Objectives, Review plans, specifications, Lay out of equipments	1		14.03.2023
	Location of equipment, organizing labour at site	1		15.03.2023
	Job lay out for different construction sites	1		16.03.2023
	Principle of storing material at site	1		20.03.2023
	Revision	1		21.03.2023
5	UNIT-5 : Construction Organization:	6		
	Introduction – Characteristics, Structure, importance	1		22.03.2023
	Organization types-line and staff, functions and their characteristics	1		23.03.2023
	Principles of organization- meaning and significance of terms- control, authority, responsibility, job & task	1		27.03.2023

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	Leadership-necessity, styles of leadership, role of leader, Human relations-relations with subordinates, peers, Supervisors	1		28.03.2023
	characteristics of group behavior, mob psychology, handling of grievances, absenteeism, labour welfare	1		29.03.2023
	Conflicts in organization-genesis of conflicts, types-intrapersonal, interpersonal, intergroup, resolving conflicts.	1	APRIL	03.04.2023
	UNIT-6 : Construction Labour and Labour Management:	6		
	Preparing Labour schedule	1		04.04.2023
	Essential steps for optimum labour output	1		05.04.2023
6	Labour characteristics	1		06.04.2023
	Wages & their payment	1		06.04.2023
	Labour incentives	1		10.04.2023
	Motivation- Classification of motives, different approaches to motivation	1		10.04.2023
	UNIT-7 : Equipment Management	6		
	Preparing the equipment schedule	1		11.04.2023
	Identification of different alternative equipment	1		12.04.2023
7	Importance of Owning costs in making decisions for hiring & purchase of equipment	1		13.04.2023
	operating costs in making decisions for hiring & purchase of equipment	1		17.04.2023
	Inspection and testing of equipment	1		18.04.2023
	Equipment maintenance	1		18.04.2023

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8	UNIT-8 : Quality Control	5		
	Concept of quality in construction	1		19.04.2023
	Quality Standards- during construction	1		19.04.2023
	Quality Standards-after construction	1		20.04.2023
	destructive & non destructive methods	1		24.04.2023
	Revision and class test	1		24.04.2023
9	UNIT-9 : Monitoring Progress	6		
	Programme of work	1		25.04.2023
	progress of work	1		26.04.2023
	Work study	1		27.04.2023
	Analysis of physical and financial progress corrective measures	1	MAY	01.05.2023
	control of physical and financial progress corrective measures	1		02.05.2023
	Revision and class test	1		03.05.2023
10	UNIT-10 : Safety Management In Construction	5		
	Importance of safety	1		04.05.2023
	causes and effects of accidents in construction works	1		04.05.2023
	Safety measures in worksites for excavation, scaffolding, formwork	1		08.05.2023
	fabrication and erection, demolition.	1		09.05.2023
	Development of safety consciousness	1		10.05.2023
	Safety legislation- Workman's compensation act, contract labour act	1		11.05.2023

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11	UNIT-11 : Role of Vulnerability Atlas of India in construction projects	6		
	Introduction to Vulnerability Atlas of India, Concepts of natural hazards and disasters and vulnerability profile of India. Definition of disaster related terms.	1		15.05.2023
	Earthquake hazard and vulnerability, Magnitude and intensity scales of earthquake, seismic zones, earthquake hazard maps, types of structures and damage classification, effects in housing and resistant measures.	1		16.05.2023
	Wind / Cyclone hazard and vulnerability, wind speed and pressures, wind hazard and cyclone occurrence maps, storm surveys and cyclone resistant measures.	1		17.05.2023
	Flood hazard and vulnerability, Flood hazard and Flood prone areas of the country, General protection of habitants and flood resistant construction.	1		18.05.2023
	Landslides, Tsunamis and Thunderstorm hazards and vulnerability, Landslide & Thunderstorm incidence maps, Measures against Tsunami, hazards.	1		22.05.2023
	Housing vulnerability risk tables and usage of vulnerability atlas of India, Inclusion of vulnerability atlas in Tender documents.	1		23.05.2023

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BRANCH : CIVIL ENGG. SEMESTER : 6TH, SECTION :- (C1 & C2)

NAME OF THE FACULTY : (1) ER. SWARNAPRAVA PARIDA
(2) ER. SUMANTA SAHOO (LECT. IN CIVIL ENGG.)

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

SUBJECT: - ADVANCED CONSTRUCTION TECHNIQUES & EQUIPMENT (TH-3)

CLASS ALLOTTED / WEEK: 4 PERIODS

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
1	UNIT-1 : Advanced Construction Materials	10	<i>February</i>	
	Fibers and Plastics- Types of fibers- Steel, Carbon, glass fibers	1		14.02.2023
	Use of fibers as construction material, properties of Fibers	1		15.02.2023
	Types of plastics- PVC, RPVC, HDPE, FRP, GRP	1		16.02.2023 , 20.02.2023
	Colored plastic sheets. Use of plastic as construction material	1		20.02.2023
	Artificial Timbers – Properties	1		21.02.2023
	Uses of artificial timber	1		21.02.2023
	Types of artificial timber available in market, strength of artificial timber	1		22.02.2023
	Miscellaneous materials – Properties and uses of acoustics materials	1		23.02.2023
	Wall claddings, plaster boards, micro-silica, artificial sand	1		27.02.2023, 28.02.2023
Bonding agents, adhesives	1		28.02.2023	
2	UNIT-2 : Prefabrication	8		
	Introduction, necessity and scope of prefabrication of buildings	1	<i>March</i>	01.03.2023 , 02.03.2023
	History of prefabrication, current uses of prefabrication , types of prefabricated systems	1		02.03.2023 , 06.03.2023
	Classification of prefabrication, advantages and disadvantages of prefabrication	1		06.03.2023 , 09.03.2023

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	The theory and process of prefabrication	1		09.03.2023, 13.03.2023
	Design principle of prefabricated systems	1		13.03.2023, 14.03.2023
	Types of prefabricated elements	1		14.03.2023
	Modular coordination Indian standard recommendation for modular planning	1		15.03.2023
	Revision	1		15.03.2023
	UNIT-3 : Earthquake Resistant Construction	8		
	Building Configuration	1		16.03.2023
	Lateral Load resisting structures	1		16.03.2023, 20.03.2023
	Building characteristics	1		20.03.2023, 21.03.2023
3	Effect of structural irregularities-vertical irregularities	1		21.03.2023
	Plan configuration problems	1		22.03.2023, 23.03.2023
	Safety consideration during additional construction and alteration of existing Buildings.	1		23.03.2023, 27.03.2023
	Additional strengthening measures in masonry building-corner reinforcement	1		27.03.2023, 28.03.2023
	lintel band, sill band, plinth band, roof band, gable band	1		28.03.2023, 29.03.2023
	UNIT-4 : Retrofitting of Structures	8		
	Seismic retrofitting of reinforced concrete buildings	1	April	03.04.2023, 04.04.2023
4	Seismic retrofitting of reinforced concrete buildings	1		04.04.2023
	Sources of weakness in RC frame building	1		05.04.2023, 06.04.2023
	Sources of weakness in RC frame building	1		06.04.2023

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	Classification of retrofitting techniques and their uses	1		10.04.2023, 11.04.2023
	Classification of retrofitting techniques and their uses	1		11.04.2023
	Revision	1		12.04.2023
	Class test	1		12.04.2023
	UNIT-5 : Building Services	8		
	Cold Water Distribution in high rise building, lay out of installation	1		13.04.2023
	Hot water supply – General principles for central plants-layout	1		17.04.2023
	Sanitation –soil and waste water installation in high rise buildings	1		17.04.2023, 18.04.2023
5	Electrical services – i) requirements in high rise buildings ii) Layout of wiring - types of wiring their uses	1		18.04.2023, 19.04.2023
	Fuses and their types ,Earthing and their uses	1		19.04.2023
	Lighting – Requirement of lighting, Measurement of light intensity	1		20.04.2023
	Ventilation - Methods of ventilation (Natural and artificial Systems of ventilation) problems on ventilation	1		24.04.2023, 25.04.2023
	Mechanical Services- Lifts, Escalator, Elevators – types and uses.	1		25.04.2023, 26.04.2023
	UNIT-6 : Construction and Earth Moving Equipments	10		
6	Planning construction equipments	1		26.04.2023, 27.04.2023
	selection of construction equipments	1		27.04.2023
	Study on earth moving equipments like drag line, tractor	1	May	01.05.2023

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	Bulldozer, Power shovel	1		01.05.2023
	Study and uses of compacting equipments like tamping rollers,	1		02.05.2023, 03.05.2023
	Smooth wheel rollers, Pneumatic tired rollers and vibrating compactors	1		03.05.2023
	Owning and operating cost	1		04.05.2023
	Problems based on owning cost	1		08.05.2023, 09.05.2023
	Problems based on owning cost	1		09.05.2023, 10.05.2023
	Revision	1		10.05.2023
	UNIT-7 : Soil reinforcing techniques	8		
	Necessity of soil reinforcing.	1		11.05.2023
	Use wire mesh	1		11.05.2023, 15.05.2023
	geo-synthetics	1		15.05.2023, 16.05.2023
7	Strengthening of embankments	1		16.05.2023
	Slope stabilization in cutting	1		17.05.2023
	Slope stabilization embankments by soil reinforcing techniques.	1		18.05.2023, 22.05.2023
	Revision	1		22.05.2023
	Class test	1		23.05.2023

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BRANCH : CIVIL ENGG. SEMESTER : 6TH, SECTION :- (C1 & C2)

NAME OF THE FACULTY : (1) ER. SIBANI SAHU
(2) ER. NANDINI PRADHAN (LECT. IN CIVIL ENGG.)

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

SUBJECT: - CONCRETE TECHNOLOGY (TH-4A)

CLASS ALLOTTED / WEEK: 4

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
1	UNIT-1 : Concrete as a Construction Material :	2	February	
	Grades of concrete	1		14.02.2023
	Advantages and disadvantages of concrete	1		15.02.2023
2	UNIT-2 : Cement :	4		
	Composition, hydration of cement	1		15.02.2023
	Water cement ratio and compressive strength	1		16.02.2023
	Fineness of cement, setting time	1		20.02.2023
	Soundness, types of cement.	1		21.02.2023 & 22.02.2023
3	UNIT-3 : Aggregate, Water and Admixtures:	6		
	Classification and characteristics of aggregate	1		22.02.2023 & 23.02.2023
	Fineness modulus, grading of aggregate, I.S.383	1		27.02.2023
	Quality of water for mixing and curing	1		27.02.2023
	Important functions, classification of admixtures	1		28.02.2023
	I.S 9103, accelerating admixtures, retarding admixtures, water reducing admixtures, air containing admixtures	1	March	28.02.2023 & 1.03.2023
	Revision	1		2.03.2023

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
4	UNIT-4 : Properties of Fresh Concrete:	6		
	Concept of fresh concrete, workability	1		6.03.2023
	Slump test	1		6.03.2023
	Compacting factor test	1		9.03.2023
	V-bee consistency test	1		13.03.2023
	Flow test, requirement of workability, I.S.1199.	1		13.03.2023
	Class test	1		14.03.2023
5	UNIT-5 : Properties of Hardened Concrete:	7		
	Cube and cylinder compressive strengths	1		15.03.2023
	Flexural strength of concrete	1		15.03.2023
	Stress-strain and elasticity	1		16.03.2023
	Phenomena of creep and shrinkage, permeability	1		20.03.2023
	Durability of concrete, sulphate, chloride on concrete	1		20.03.2023 & 21.03.2023
	Acid attack on concrete, efflorescence	1		21.03.2023
Revision	1		22.03.2023	
6	UNIT-6 : Concrete Mix Design :	5		
	Introduction, Data or input required for mix design	1		23.03.2023
	Nominal mix concrete, design mix concrete	1		27.03.2023
	Design mix concrete	1		27.03.2023
	Basic consideration for concrete mix design	1		28.03.2023
	Methods of proportioning concrete mix – I.S Code method of mix design(I.S.10262)	1		28.03.2023 & 29.03.2023

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7	UNIT-7 : Production of Concrete:	6		
	Batching of materials, mixing of concrete materials	1	April	29.03.2023 & 3.04.2023
	Transportation, placing of concrete	1		4.04.2023
	Compaction of concrete (vibrators)	1		5.04.2023
	Curing of concrete, Formwork	1		6.04.2023
	Requirements and types ,stripping of forms	1		10.04.2023
	Class test	1		11.04.2023
8	UNIT-8 : Inspection and Quality Control of Concrete :	6		
	Quality control of Concrete as per I.S.456	1		12.04.2023
	Factors causing the variations in the quality of concrete	1		13.04.2023
	Mixing, Transporting, Placing &curing requirements of Concrete as per I.S.456.	1		17.04.2023
	Inspection and Testing as per Clause 17 of IS:456	1		18.04.2023
	Durability requirements of Concrete as per I.S:456.	1		19.04.2023
	Revision	1		20.04.2023
9	UNIT-9 :Special Concrete :	6		
	Introduction to ready mix concrete	1		24.04.2023
	High performance concrete	1		25.04.2023
	Silica fume concrete	1		25.04.2023
	Shot-crete concrete or gunniting	1		26.04.2023
	Revision	1		27.04.2023
	Question discussion	1	May	1.05.2023

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
10	UNIT-10 : Deterioration of Concrete and its Prevention :	6		
	Types of deterioration	1		2.05.2023
	Prevention of concrete deterioration	1		3.05.2023
	Corrosion of reinforcement	1		4.05.2023
	Effects and prevention	1		8.05.2023
	Revision	1		9.05.2023
	Question discussion	1		10.05.2023
11	UNIT-11 : Repair Technology for Concrete Structures :	6		
	Symptom, cause during construction	1		11.05.2023
	Prevention , remedy of defects during construction	1		15.05.2023
	Cracking of concrete due to different reasons	1		16.05.2023
	Repair of cracks for different purposes	1		17.05.2023
	Selection of techniques, polymer based repairs, common types of repairs	1		18.05.2023 & 22.05.2023
	Class test	1		23.05.2023

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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-CIVIL ENGG.

SEMESTER: 6TH

SECTION:- C1

NAME OF THE FACULTY : (1) ER. BABITA SAHU (H.O.D., CIVIL ENGG.), (2) ER. SIDHANTA SEKHAR MAHAR (LECT. IN CIVIL ENGG.), (3) ER. IPSITA NAYAK (T.A., CIVIL ENGG.)

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023 PRACTICAL SUBJECT: CONSTRUCTION WORKS PRACTICE & MS PROJECT (PR-1)


CLASS ALLOTTED /WEEK:- 05 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
	PART 1: Construction Work Practices			
1	1. Study of tools required for construction of masonry.	FEBRUARY	01	Dt. 16.02.2023
2	2. Lay out Plan of a building.		02	Dt. 20.02.2023 , Dt. 23.02.2023
3	3. Construction of 1 & 1 ½ Brick thick walls in English Bond in Mud mortar including a corner.		01	Dt. 27.02.2023
4	Construction of 1 & 1 ½ Brick thick Pillar in Mud mortar.	MARCH	01	Dt. 02.03.2023
5	Bar bending and fabrication of reinforcements for a beam.		01	Dt. 06.03.2023
6	Bar bending and fabrication of reinforcements for a slab.		01	Dt. 09.03.2023
7	Bar bending and fabrication of reinforcements for a lintel with chajja.		01	Dt. 13.03.2023
8	Bar bending and fabrication of reinforcements for a column.		01	Dt. 16.03.2023
9	Conducting a Non destructive compressive strength test on concrete beam using rebound Hammer as per I.S:1311(Part-2)-1992.		02	Dt. 20.03.2023 , Dt. 23.03.2023
10	Study of pipe joints and plumbing fixtures.		01	Dt. 27.03.2023

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
11	Field Visits:			
	Visit to a construction site of a building where the following works are in progress.		01	Dt. 03.04.2023
	Excavation of foundation, b) Masonry works, c) Plumbing works d) Painting (interior/ exterior), e) Wood works, f) Fabrication & concreting works, g) Flooring		02	Dt. 06.04.2023, Dt. 10.04.2023
	PART II: MS Project			
1	Introduction to Microsoft Project			
	1.1 Project Management-Definition & concept		01	Dt. 13.04.2023
	1.2 Features of Microsoft project		01	Dt. 17.04.2023
	1.3 MS project scheduling for engineering		02	Dt. 20.04.2023, Dt. 24.04.2023
2	Creating a project plan			
	2.1 Basic information for a new project	MAY	02	Dt. 27.04.2023, Dt. 01.05.2023
	2.2 Creating project from a blank		01	Dt. 04.05.2023
	2.3 Creating project from existing		01	Dt. 08.05.2023
4	Basics of Microsoft Project			
	3.1 Estimating a project		01	Dt. 11.05.2023
	3.2 Project Task		01	Dt. 15.05.2023
	3.3 Project Resources		01	Dt. 15.05.2023
5	Tracking the project progress		01	Dt. 18.05.2023
6	Project Reporting		01	Dt. 18.05.2023
7	Custom views and field		01	Dt. 22.05.2023

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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-CIVIL ENGG.

SEMESTER: 6TH

SECTION:- C1

NAME OF THE FACULTY : (1) ER. SUNIL KUMAR SAHU, (2) ER. PRITAM SAGAR SAHOO (LECT. IN CIVIL ENGG.)

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

PRACTICAL SUBJECT: LAND SURVEY PRACTICE – II (PR-2)

CLASS ALLOTTED /WEEK:- 05 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
1	TRIGONOMETRICAL SURVEYING & TACHEOMETRY:	FEBRUARY	01	Dt. 14.02.2023
	Determination of height of 3 objects whose bases are accessible		01	Dt. 14.02.2023
	Determination of stadia constants		01	Dt. 14.02.2023
	Determination of horizontal distance an elevation with Staff vertical , by stadia method		01	Dt. 15.02.2023
2	SETTING OUT CURVES AND SITE SURVEYING:			
	Setting out a simple circular curve by offsets from long chord		01	Dt. 15.02.2023
	Setting out a simple circular curve by offsets from the tangent		01	Dt. 21.02.2023
	Setting out a simple circular curve by offsets from chords produces		01	Dt. 21.02.2023
	Setting out a simple circular curve by Rankine's method of tangent angle (Deflection angles)		01	Dt. 21.02.2023
	Setting out a site the center line and foundation width of a building from the given plan		01	Dt. 22.02.2023
	Setting out the foundation line for a culvert		01	Dt. 22.02.2023
	Dividing an area into plots of given size		01	Dt. 22.02.2023

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
3	STUDY OF MAP AND MAP SERIES:			
	Physical Map		01	Dt. 28.02.2023
	Topographic Map		01	Dt. 28.02.2023
	Road Map		01	Dt. 28.02.2023
	Political Map	MARCH	01	Dt. 01.03.2023
	Economic & Resources Map		01	Dt. 01.03.2023
	Thematic Map		01	Dt. 14.03.2023
	Climate Map		01	Dt. 14.03.2023
	Open Series map and Defense Series Map		01	Dt. 15.03.2023
4	STUDY ON GPS & DGPS AND ETS:			
	4.1 GPS: - Global Positioning, GPS Signals, Errors of GPS, Positioning Methods		01	Dt. 15.03.2023
	4.2 DGPS: - Differential Global Positioning System		01	Dt. 15.03.2023
	4.2.1 Base Station Setup		01	Dt. 21.03.2023
	4.2.2 Rover GPS Set up		01	Dt. 21.03.2023
	4.2.3 Download, Post-Process and Export GPS data		01	Dt. 22.03.2023
	4.2.4 Sequence to download GPS data from flashcards		01	Dt. 22.03.2023
	4.2.5 Sequence to Post-Process GPS data		01	Dt. 28.03.2023
	4.2.6 Sequence to export post process GPS data		01	Dt. 28.03.2023
4.2.7 Sequence to export GPS Time tags to file		01	Dt. 29.03.2023	

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
5	ETS: - Electronic Total Station			
	Distance Measurement	APRIL	01	Dt. 4.04.2023
	Angle Measurement		01	Dt. 5.04.2023
	Leveling		01	Dt. 05.04.2023
	Determining position		01	Dt. 11.04.2023
	Reference networks		01	Dt. 11.04.2023
	Errors and Accuracy		01	Dt. 12.04.2023
6	STUDY OF GIS AND MAP PREPARATION USING GIS			
	Components of GIS, Integration of Spatial and Attribute Information		01	Dt. 18.04.2023
	Three Views of Information System		01	Dt. 19.04.2023
	Database or Table View, Map View and Model View		01	Dt. 19.04.2023
	Spatial Data Model		01	Dt. 25.04.2023
	Attribute Data Management and Metadata Concept		01	Dt. 25.04.2023
	Prepare data and adding to Arc Map.		01	Dt. 26.04.2023
	Organizing data as layers.		01	Dt. 02.05.2023
	Editing the layers.		01	Dt. 03.05.2023
	Switching to Layout View.		01	Dt. 09.05.2023
	Change page orientation.		01	Dt. 10.05.2023
	Removing Borders.		01	Dt. 16.05.2023
	Adding and editing map information.		01	Dt. 17.05.2023
Finalize the map		01	Dt. 23.05.2023	


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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-CIVIL ENGG.

SEMESTER: 6TH

SECTION:- C1

NAME OF THE FACULTY : (1) ER. SUNIL KUMAR SAHU, (2) ER. SWARNAPRAVA PARIDA (LECT., CIVIL ENGG.)

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

PRACTICAL SUBJECT: CADD Lab AND DESIGN & DETAILING PRACTICE (PR-3)

CLASS ALLOTTED /WEEK:-

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
	Structural Detailing Practice:			
	Draw the following with necessary details and schedule of bars from supplied sketches or given references such as SP 34	FEBRUARY	01	Dt. 17.02.2023
1	i) Slab, beam and lintel with chajja as in a simple building (Plate I)		01	Dt. 17.02.2023
	ii) Columns, column-beam connections with & without splicing, isolated footing, staircase (Plate 2)		01	Dt. 17.02.2023
	iii) Different types of bolt connections, welded connections. (Plate3)		01	Dt. 24.02.2023
	iv) Details of Pile and Pile cap	MARCH	01	Dt. 03.03.2023
	Use of STADD Pro Software:			
2	2-D Modelling of structures, Use of Structure wizard, Geometry, Property, Support, Loads and combinations, Analysis		01	Dt. 10.03.2023
	Analysis of a Continuous beam with more than two span subjected to udl and point load		01	Dt. 10.03.2023

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
	3-D modeling of building structures ,dead load, live load, earthquake and wind load analysis, design of a 3 storeyed building and preparation of reinforcement drawing and detailing		02	Dt. 17.03.2023 Dt. 24.03.2023
	Introduction to STADD foundation.		02	Dt. 24.03.2023, Dt.31.03.2023
3	Revit Architecture Software:			
	Basics- Modify, Wall, Door, Window, Component Room, Roof, Floor, Grid, Lines, Dimension, Section, Level, Text, View	APRIL	02	Dt. 21.04.2023 , Dt. 28.04.2023
	Modelling- Ramp, Railing, Stair		01	Dt. 28.04.2023
	Site- Topo surface- Parking Component, Site Component		01	Dt. 28.04.2023
	Align, Split, Trim, offset, Match type, Line work, Paint, Scale, Unit	MAY	01	Dt. 12.05.2023
	3D View		01	Dt. 12.05.2023
	Preparation of approval drawing of a double storied residential building from given specifications with its 3D view using above commands		01	Dt. 12.05.2023

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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-CIVIL ENGG.

SEMESTER: 6TH

SECTION:- C1

NAME OF THE FACULTY : (1) ER. BABITA SAHU (H.O.D., CIVIL ENGG.), (2) ER. SUNIL KUMAR SAHU, (3) ER. SIDHANTA SEKHAR MAHAR (4) ER. NANDINI PRADHAN (LECT. IN CIVIL ENGG.)

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

PRACTICAL SUBJECT: PROJECT PHASE - II(PR-4)

CLASS ALLOTTED /WEEK:- 05 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
01	Planning & Execution of Project selected in Project Phase-I	FEB	03	Dt.16.02.2023, Dt. 23.02.2023 Dt. 25.02.2023
02	Quality of Performance	MAR	03	Dt.02.03.2023, Dt. 04.03.2023 Dt. 09.03.2023
03	Providing Solution of Problems or production of final product		03	Dt.11.03.2023, Dt.16.03.2023 Dt.18.03.2023
04	Sense of Responsibility	APR	03	Dt. 23.03.2023, Dt.25.03.2023 Dt. 06.04.2023
05	Self Expression/Communication/Presentation Skills		03	Dt.08.04.2023, Dt.13.04.2023 Dt.15.04.2023
06	Interpersonal Skills/human Relations		03	Dt. 20.04.2023, Dt. 22.04.2023 Dt. 27.04.2023
07	Report Writing Skills	MAY	03	Dt. 29.04.2023, Dt. 04.05.2023 Dt. 06.05.2023
08	Viva Voce		04	Dt.11.05.2023, Dt.13.05.2023, Dt.18.05.23 Dt. 20.05.2023

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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:- CIVIL ENGG.

SEMESTER: 6TH

SECTION:- C1

NAME OF THE FACULTY : (1) ER. SUNIL KUMAR SAHU, (2) ER. SIBANI SAHU (LECT. CIVIL ENGG.) (3) ER. IPSITA NAYAK (T.A., CIVIL ENGG.)

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

PRACTICAL SUBJECT : LIFE SKILLS (PR-5)

CLASS ALLOTTED /WEEK:- 02 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
1	SOCIAL SKILL	FEBRUARY	02	Dt. 17.02.2023, Dt. 24.02.23
2	PROBLEM SOLVING	MARCH	02	Dt. 03.03.2023, Dt. 10.03.2023
3	PRESENTATION SKILL		02	Dt. 17.03.2023, Dt. 24.03.2023
4	GROUP DISCUSSION & INTERVIEW TECHNIQUES	APRIL	02	Dt. 31.03.2023, Dt. 21.04.2023
5	WORKING IN TEAM	.	01	Dt. 28.04.2023
6	TASK MANAGEMENT	MAY	01	Dt. 12.05.2023
7				
8				
9				

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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:- CIVIL ENGG.

SEMESTER: 6TH

SECTION : C1

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SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

PRACTICAL SUBJECT: STUDENT CENTRED ACTIVITIES

CLASS ALLOTTED /WEEK :- 03 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
01	Library Study & Technical Quiz	FEBRUARY	02	Dt. 17.02.2023 Dt. 24.02.2023
02	Seminar On different technical topics	MARCH	02	Dt. 03.03.2023 Dt. 10.03.2023
03	Seminar On different Environment issues		02	Dt. 17.03.2023 Dt. 24.03.2023
04	Personality development class	APRIL	02	Dt. 31.03.2023 Dt. 21.04.2023
05	Cultural Activities	MAY	02	Dt. 28.04.2023 Dt. 12.05.2023



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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-CIVIL ENGG.

SEMESTER: 6TH

SECTION:- C2

NAME OF THE FACULTY : (1) ER. BABITA SAHU (H.O.D., CIVIL ENGG.), (2) ER. SIDHANTA SEKHAR MAHAR (LECT. IN CIVIL ENGG.), (3) ER. IPSITA NAYAK (T.A., CIVIL ENGG.)

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023 PRACTICAL SUBJECT: CONSTRUCTION WORKS PRACTICE & MS PROJECT (PR-1)


CLASS ALLOTTED /WEEK:- 05 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
	PART 1: Construction Work Practices			
1	1. Study of tools required for construction of masonry.	February	01	Dt. 14.02.2023
2	2. Lay out Plan of a building.		01	Dt. 15.02.2023
3	3. Construction of 1 & 1 ½ Brick thick walls in English Bond in Mud mortar including a corner.		01	Dt. 21.02.2023
4	Construction of 1 & 1 ½ Brick thick Pillar in Mud mortar.		01	Dt. 22.02.2023
5	Bar bending and fabrication of reinforcements for a beam.		01	Dt. 28.02.2023
6	Bar bending and fabrication of reinforcements for a slab.	March	01	Dt. 01.03.2023
7	Bar bending and fabrication of reinforcements for a lintel with chajja.		01	Dt. 14.03.2023
8	Bar bending and fabrication of reinforcements for a column.		01	Dt. 15.03.2023
9	Conducting a Non destructive compressive strength test on concrete beam using rebound Hammer as per I.S:1311(Part-2)-1992.		02	Dt. 21.03.2023, Dt. 22.03.2023
10	Study of pipe joints and plumbing fixtures.		02	Dt. 28.03.2023, Dt. 29.03.2023

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOB TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
11	Field Visits:			
	Visit to a construction site of a building where the following works are in progress.	APRIL	02	Dt. 04.04.2023, Dt. 05.04.2023
	Excavation of foundation, b) Masonry works, c) Plumbing works d) Painting (interior/ exterior), e) Wood works, f) Fabrication & concreting works, g) Flooring		02	Dt. 11.04.2023, Dt. 12.04.2023
	PART II: MS Project			
	Introduction to Microsoft Project			
1	1.1 Project Management-Definition & concept		01	Dt. 18.04.2023
	1.2 Features of Microsoft project		01	Dt. 19.04.2023
	1.3 MS project scheduling for engineering		01	Dt. 19.04.2023
	Creating a project plan			
2	2.1 Basic information for a new project		01	Dt. 25.04.2023
	2.2 Creating project from a blank		01	Dt. 26.04.2023
	2.3 Creating project from existing		01	Dt. 26.04.2023
	Basics of Microsoft Project			
4	3.1 Estimating a project		02	Dt. 02.05.2023, Dt. 03.05.2023
	3.2 Project Task		02	Dt. 09.05.2023, Dt. 10.05.2023
	3.3 Project Resources		01	Dt. 16.05.2023
5	Tracking the project progress		01	Dt. 17.05.2023
6	Project Reporting		01	Dt. 17.05.2023
7	Custom views and field		01	Dt. 23.05.2023

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NAME OF THE FACULTY : (1) ER. SUNIL KUMAR SAHU, (2) ER. PRITAM SAGAR SAHOO (LECT. IN CIVIL ENGG.)

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

PRACTICAL SUBJECT: LAND SURVEY PRACTICE – II (PR-2)

CLASS ALLOTTED /WEEK:- 05 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
1	TRIGONOMETRICAL SURVEYING & TACHEOMETRY:			
	Determination of height of 3 objects whose bases are accessible	FEBRUARY	01	Dt. 16.02.2023
	Determination of stadia constants		01	Dt. 20.02.2023
	Determination of horizontal distance and elevation with Staff vertical, by stadia method		01	Dt. 23.02.2023
2	SETTING OUT CURVES AND SITE SURVEYING:			
	Setting out a simple circular curve by offsets from long chord		01	Dt. 27.02.2023
	Setting out a simple circular curve by offsets from the tangent		01	Dt. 27.02.2023
	Setting out a simple circular curve by offsets from chords produces		01	Dt. 27.02.2023
	Setting out a simple circular curve by Rankine's method of tangent angle (Deflection angles)	MARCH	01	Dt. 02.03.2023
	Setting out a site the center line and foundation width of a building from the given plan		01	Dt. 02.03.2023
	Setting out the foundation line for a culvert		01	Dt. 02.03.2023
	Dividing an area into plots of given size		01	Dt. 06.03.2023


Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
3	STUDY OF MAP AND MAP SERIES:			
	Physical Map		01	Dt. 06.03.2023
	Topographic Map		01	Dt. 06.03.2023
	Road Map		01	Dt. 09.03.2023
	Political Map		01	Dt. 09.03.2023
	Economic & Resources Map		01	Dt. 13.03.2023
	Thematic Map		01	Dt. 13.03.2023
	Climate Map		01	Dt. 13.03.2023
	Open Series map and Defense Series Map		01	Dt. 16.03.2023
4	STUDY ON GPS & DGPS AND ETS:			
	4.1 GPS: - Global Positioning, GPS Signals, Errors of GPS, Positioning Methods		01	Dt. 16.03.2023
	4.2 DGPS: - Differential Global Positioning System		01	Dt. 16.03.2023
	4.2.1 Base Station Setup		01	Dt. 20.03.2023
	4.2.2 Rover GPS Set up		01	Dt. 20.03.2023
	4.2.3 Download, Post-Process and Export GPS data		01	Dt. 23.03.2023
	4.2.4 Sequence to download GPS data from flashcards		01	Dt. 27.03.2023
	4.2.5 Sequence to Post-Process GPS data		01	Dt. 27.03.2023
	4.2.6 Sequence to export post process GPS data	APRIL	01	Dt. 03.04.2023
	4.2.7 Sequence to export GPS Time tags to file		01	Dt. 03.04.2023

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
5	ETS: - Electronic Total Station			
	Distance Measurement		01	Dt-06-04-2023
	Angle Measurement		01	Dt-10-04-2023
	Leveling		01	Dt-13-04-2023
	Determining position		01	Dt-17-04-2023
	Reference networks		01	Dt-20-04-2023
	Errors and Accuracy		01	Dt-24-04-2023
6	STUDY OF GIS AND MAP PREPARATION USING GIS			
	Components of GIS, Integration of Spatial and Attribute Information		01	Dt-24-04-2023
	Three Views of Information System		01	Dt-27-04-2023
	Database or Table View, Map View and Model View	MAY	01	Dt-01-05-2023
	Spatial Data Model		01	Dt-01-05-2023
	Attribute Data Management and Metadata Concept		01	Dt-04-05-2023
	Prepare data and adding to Arc Map.		01	Dt-08-05-2023
	Organizing data as layers.		01	Dt-08-05-2023
	Editing the layers.		01	Dt-11-05-2023
	Switching to Layout View.		01	Dt-15-05-2023
	Change page orientation.		01	Dt-18-05-2023
	Removing Borders.		01	Dt-18-05-2023
	Adding and editing map information.		01	Dt-22-05-2023
	Finalize the map		01	Dt-22-05-2023



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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-CIVIL ENGG.

SEMESTER: 6TH

SECTION:- C2

NAME OF THE FACULTY : (1) ER. SUNIL KUMAR SAHU, (2) ER. SWARNAPRAVA PARIDA (LECT., CIVIL ENGG.)

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

PRACTICAL SUBJECT: CADD Lab AND DESIGN & DETAILING PRACTICE (PR-3)

CLASS ALLOTTED /WEEK:-

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
	Structural Detailing Practice:			
	Draw the following with necessary details and schedule of bars from supplied sketches or given references such as SP 34	FEBRUARY	01	Dt. 17.02.2023
1	i) Slab, beam and lintel with chajja as in a simple building (Plate I)		01	Dt. 17.02.2023
	ii) Columns, column-beam connections with & without splicing, isolated footing, staircase (Plate 2)		01	Dt. 17.02.2023
	iii) Different types of bolt connections, welded connections. (Plate3)		01	Dt. 24.02.2023
	iv) Details of Pile and Pile cap	MARCH	01	Dt. 03.03.2023
	Use of STADD Pro Software:			
2	2-D Modelling of structures, Use of Structure wizard, Geometry, Property, Support, Loads and combinations, Analysis		01	Dt. 10.03.2023
	Analysis of a Continuous beam with more than two span subjected to udl and point load		01	Dt. 10.03.2023

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
	3-D modeling of building structures ,dead load, live load, earthquake and wind load analysis, design of a 3 storeyed building and preparation of reinforcement drawing and detailing		02	Dt. 17.03.2023 Dt. 24.03.2023
	Introduction to STADD foundation.		02	Dt. 24.03.2023, Dt. 31.03.2023
3	Revit Architecture Software:			
	Basics- Modify, Wall, Door, Window, Component Room, Roof, Floor, Grid, Lines, Dimension, Section, Level, Text, View	APRIL	02	Dt. 21.04.2023, Dt. 28.04.2023
	Modelling- Ramp, Railing, Stair		01	Dt. 28.04.2023
	Site- Topo surface- Parking Component, Site Component		01	Dt. 28.04.2023
	Align, Split, Trim, offset, Match type, Line work, Paint, Scale, Unit	MAY	01	Dt. 12.05.2023
	3D View		01	Dt. 12.05.2023
	Preparation of approval drawing of a double storied residential building from given specifications with its 3D view using above commands		01	Dt. 12.05.2023

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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-CIVIL ENGG.

SEMESTER: 6TH

SECTION:- C2

NAME OF THE FACULTY : (1) ER. BABITA SAHU (H.O.D., CIVIL ENGG.), (2) ER. SUNIL KUMAR SAHU, (3) ER. SIDHANTA SEKHAR MAHAR (4) ER. NANDINI PRADHAN (LECT. IN CIVIL ENGG.)

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

PRACTICAL SUBJECT: PROJECT PHASE - II(PR-4)

CLASS ALLOTTED /WEEK:- 05 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
01	Planning & Execution of Project Selected in Project Phase - I	FEB	03	Dt. 16.02.2023, Dt. 23.02.2023 Dt. 25.02.2023
02	Quality of Performance	MAR	03	Dt. 02.03.2023, Dt. 04.03.2023 Dt. 09.03.2023
03	Providing Solution of Problems or production of final product		03	Dt. 11.03.2023, Dt. 16.03.2023 Dt. 18.03.2023
04	Sense of Responsibility	APR	03	Dt. 23.03.2023, Dt. 25.03.2023 Dt. 06.04.2023
05	Self Expression/Communication/Presentation Skills		03	Dt. 08.04.2023, Dt. 13.04.2023 Dt. 15.04.2023
06	Interpersonal Skills/human Relations		03	Dt. 20.04.2023, Dt. 22.04.2023 Dt. 27.04.2023
07	Report Writing Skills	MAY	03	Dt. 29.04.2023, Dt. 04.05.2023 Dt. 06.05.2023
08	Viva Voce		04	Dt. 11.05.2023, Dt. 13.05.2023 Dt. 20.05.2023 Dt. 18.05.2023

Babita Sahu.

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Sidhanta

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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:- CIVIL ENGG.

SEMESTER: 6TH

SECTION:- C2

NAME OF THE FACULTY : (1) ER. SUNIL KUMAR SAHU, (2) ER. SIBANI SAHU (LECT. CIVIL ENGG.) (3) ER. IPSITA NAYAK (T.A., CIVIL ENGG.)

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

PRACTICAL SUBJECT : LIFE SKILLS (PR-5)

CLASS ALLOTTED /WEEK:- 02 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
1	SOCIAL SKILL	FEBRUARY	02	Dt. 17.02.2023, Dt. 24.02.23
2	PROBLEM SOLVING	MARCH	02	Dt. 03.03.2023, Dt. 10.03.2023
3	PRESENTATION SKILL		02	Dt. 17.03.2023, Dt. 24.03.2023
4	GROUP DISCUSSION & INTERVIEW TECHNIQUES	APRIL	02	Dt. 31.03.2023, Dt. 21.04.2023
5	WORKING IN TEAM		01	Dt. 28.04.2023
6	TASK MANAGEMENT	MAY	01	Dt. 12.05.2023
7				
8				
9				

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SECTION : C2

NAME OF THE FACULTY : (1) ER. SUNIL KUMAR SAHU, (2) ER. SWARNAPRAVA PARIDA (LECT. IN CIVIL ENGG.)

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023


PRACTICAL SUBJECT: STUDENT CENTRED ACTIVITIES

CLASS ALLOTTED /WEEK :- 03 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
01	Library Study & Technical Quiz	FEBRUARY	02	Dt. 17.02.2023 Dt. 24.02.2023
02	Seminar On different technical Topics	MARCH	02	Dt. 03.03.2023 Dt. 10.03.2023
03	Seminar On different Environment issues		02	Dt. 17.03.2023 Dt. 24.03.2023
04	Personality development Class	APRIL	02	Dt. 31.03.2023 Dt. 21.04.2023
05	Cultural Activities	MAY	02	Dt. 28.04.2023 Dt. 12.05.2023


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