



**GOVERNMENT POLYTECHNIC,
KORAPUT DEPARTMENT CIVIL ENGINEERING**

Discipline: CIVIL ENGG	Semester: 6 th	Name of the Teaching Faculty: RABINARAYAN HOTA, PTGF
Subject: CONSTRUCTION MANAGEMENT	No. of days/ per week allocated: 05	Semester From date: 10.03.2022 To Date: 10.06.2022 No. of Weeks: 13
PRE-REQUISITE	Basic knowledge about Construction Technology	
COURSE OUTCOMES	CO1: Develop schedules for construction project CO2: Realize significance of organizational behavior towards successful functioning CO3: Explain the important terminology related to materials management CO4: Understand construction quality indicators and their measurement CO5: Understand construction quality indicators and their measurement	
Week	Class Day	Theory/Practical Topics
1 ST	1 ST	Introduction To Construction Management : Aims and objectives of construction management.
	2 ND	Functions of construction management.
	3 RD	The construction team components
2 ND	4 TH	Owner, engineer, architect, contractor-their functions and interrelationship and jurisdiction. Resources for construction management- men, machines, materials, money
	1 ST	Constructional Planning : Importance of Construction Planning
	2 ND	Developing work breakdown structure for construction work
	3 RD	Construction Planning stages-Pre-tender stage, Post-tender stage.
3 RD	4 TH	Construction scheduling by Bar charts-preparation of Bar Charts for simple construction works
	1 ST	QUIZ
	2 ND	Preparation of schedules for labour materials, machinery, finance for small works
	3 RD	Limitation of Bar charts 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.
	4 TH	Materials and Stores Management
4 TH	1 ST	Classification of Stores-storage of stock. Issue of materials-indent , invoice, bin card
	2 ND	Construction Site Management :
5 TH	3 RD	Job Lay out-Objectives, Review plans, specifications, Lay out of equipments.
	4 TH	
	1 ST	Location of equipment, organizing labour at site.
	2 ND	Job lay out for different construction sites. Principle of storing material at

		site
	3 RD	Construction Organization: Introduction – Characteristics. Structure. importance.
	4 TH	Organization types-line and staff, functions and their characteristics
6 TH	1 ST	Principles of organization- meaning and significance of terms- control, authority, responsibility, job & task.
	2 ND	Leadership-necessity, styles of leadership, role of leader
	3 RD	Human relations-relations with subordinates, peers, Supervisors, characteristics of group behavior, mob psychology, handling of grievances, absenteeism, labour welfare.
	4 TH	QUIZ

QUIZ

7 TH	1 ST	Construction Labour and Labour Management:
	2 ND	Preparing Labour schedule , Essential steps for optimum labour output
	3 RD	Labour characteristics , Wages & their payment
	4 TH	Labour incentives Motivation- Classification of motives, different approaches to motivation
8 TH	1 ST	Equipment Management
	2 ND	Preparing the equipment schedule , Identification of different alternative equipment
	3 RD	Importance of Owning & operating costs in making decisions for hiring & purchase of equipment
	4 TH	Inspection and testing of equipment Equipment maintenance
9 TH	1 ST	QUIZ
	2 ND	Quality Control
	3 RD	Concept of quality in construction
	4 TH	Quality Standards- during construction, after construction, destructive & non destructive methods.
10 TH	1 ST	Monitoring Progress :
	2 ND	Programme and progress of work, Work study
	3 RD	Analysis and control of physical and financial progress corrective measures
	4 TH	Safety Management In Construction:
11 TH	1 ST	Importance of safety
	2 ND	causes and effects of accidents in construction works
	3 RD	Safety measures in worksites for excavation, scaffolding, formwork, fabrication and erection, demolition.
	4 TH	Development of safety consciousness Safety legislation- Workman's compensation act, contract labour act
12 TH	1 ST	QUIZ
	2 ND	Role of Vulnerability Atlas of India in construction projects :
	3 RD	Introduction to Vulnerability Atlas of India, Concepts of natural hazards and disasters and vulnerability profile of India. Definition of disaster related terms.
	4 TH	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.
13 TH	1 ST	Flood hazard and vulnerability, Flood hazard and Flood prone areas of the country, General protection of habitants and flood resistant construction.
	2 ND	Landslides, Tsunamis and Thunderstorm hazards and vulnerability, Landslide & Thunderstorm incidence maps, Measures against Tsunami hazards.
	3 RD	RIVISION

4TH

RIVISION

LEARNING RESOURCES:

- 1 M. R. Samal & R.L. Sahoo Construction Management Kalyani Publication
- 2 PS Gahlot & B M Dhir Construction planning and management New age international Publishers
- 3 Robert L. Peurifoy & William B Ledbetter Construction Planning equipment and methods TMH Education



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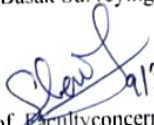
Discipline: CIVIL ENGG	Semester: 6 th	Name of the Teaching Faculty: SUCHITRA LENKA ,PTGF
Subject: – LAND SURVEY II	No. of days/ per week allotted: 05	Semester From date: 10.03.2022 To Date: 10.06.2022 No. of Weeks: 13
PRE-REQUISITE	Basic knowledge about Engineering mechanics.	
COURSE OUTCOMES	CO1: Solve numerical problems in the segment of tacheometry CO2: Comprehend concepts of curve ranging and solve simple numerical CO3: Study and interpret maps CO4: Comprehend basics of GIS and prepare map using GIS data CO5: Comprehend basics of GPS setup, data processing and export	
Week	Class Day	Theory/Practical Topics
1 ST	1 ST	TACHEOMETRY: (Only concepts; applications without derivation)
	2 ND	Principles, stadia constants determination
	3 RD	2 Stadia tacheometry with staff held vertical and with line of collimation horizontal or inclined, numerical problems
	4 TH	Elevations and distances of staff stations – numerical problems
2 ND	5 TH	CURVES :
	1 ST	Compound, reverse and transition curve, Purpose & use of different types of curves in field
	2 ND	Elements of circular curves, numerical problems
	3 RD	QUIZ
	4 TH	Preparation of curve table for setting out
	5 TH	Setting out of circular curve by chain and tape and by instrument angular methods
3 RD	1 ST	(i) offsets from long chord, (ii) successive bisection of arc, (iii) offsets from tangents, (iv) offsets from chord produced, (v) Rankine's method of tangent angles (No derivation)
	2 ND	Obstacles in curve ranging – point of intersection inaccessible
	3 RD	BASICS ON SCALE AND BASICS OF MAP:
	4 TH	Fractional or Ratio Scale, Linear Scale, Graphical Scale
	5 TH	What is Map, Map Scale and Map Projections
4 TH	1 ST	How Maps Convey Location and Extent
	2 ND	How Maps Convey characteristics of features, How Maps Convey Spatial Relationship
	3 RD	Classification of Maps : Physical Map Topographic Map Road Map
	4 TH	Political Map Economic & Resources Map Thematic Map Climate Map
	5 TH	QUIZ
5 TH	1 ST	SURVEY OF INDIA MAP SERIES:
	2 ND	Open Series map : Defense Series Map Map Nomenclature


	3 RD	Quadrangle Name Latitude, Longitude, UTM's, Contour Lines
	4 TH	Magnetic Declination, Public Land Survey System Field Notes
	5 TH	BASICS OF AERIAL PHOTOGRAPHY, PHOTOGRAMMETRY, DEM AND ORTHO IMAGE GENERATION:
6 TH	1 ST	Aerial Photograph, Film, Focal Length, Scale
	2 ND	Types of Aerial Photographs (Oblique, Straight) Photogrammetry:
	3 RD	Classification of Photogrammetry
	4 TH	Aerial Photogrammetry
	5 TH	Terrestrial Photogrammetry
7 TH	1 ST	QUIZ
	2 ND	Terrestrial Photogrammetry
	3 RD	Acquisition of Imagery using aerial and satellite platform, Control Survey
	4 TH	Geometric Distortion in Imagery Application of Imagery and its support data Orientation and Triangulation
	5 TH	Stereoscopic Measurement : X-parallax, Y-parallax
8 TH	1 ST	MODERN SURVEYING METHODS :
	2 ND	6.1 Principles, features and use of (i) Micro-optic theodolite, digital theodolite 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))
	3 RD	QUIZ
	4 TH	BASICS ON GPS & DGPS AND ETS:
	5 TH	Global Positioning
9 TH	1 ST	Working Principle of GPS, GPS Signals, Errors of GPS, Positioning Methods
	2 ND	DGPS: - Differential Global Positioning System, Base Station Setup, Rover GPS Set up
	3 RD	Download, Post-Process and Export GPS data, Sequence to download GPS data from flashcards
	4 TH	Sequence to Post-Process GPS data, Sequence to export post process GPS data
	5 TH	Sequence to export GPS Time tags to file
10 TH	1 ST	ETS: - Electronic Total Station, Distance Measurement
	2 ND	Continuation
	3 RD	Angle Measurement, Leveling
	4 TH	Determining position 7.1.5 Reference networks Errors and Accuracy
	5 TH	QUIZ
11 TH	1 ST	BASICS OF GIS AND MAP PREPARATION USING GIS
	2 ND	Components of GIS, Integration of Spatial and Attribute Information
	3 RD	Three Views of Information System
	4 TH	Database or Table View, Map View and Model View, Spatial Data Model
	5 TH	Continuation
12 TH	1 ST	Spatial Data Model
	2 ND	Attribute Data Management and Metadata Concept
	3 RD	Continuation
		Prepare data and adding to Arc Map
	5 TH	Organizing data as layers
13 TH	1 ST	Editing the layers.
	2 ND	Switching to Layout View

	3 RD	Change page orientation.
	4 TH	Removing Borders
	5 TH	Rivision

LEARNING RESOURCES:

- 1 D. Gaikwad Advanced Surveying S.Chand
- 2 B. C. Punmia Surveying Vol. I, II, III Laxmi Publication, Delhi - 06
- 3 R. Agor A text book of surveying and leveling Khanna Publishers, Delhi 6
- 4 N. N. Basak Surveying and Levelling Tata Mcgraw Hill


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GOVERNMENT POLYTECHNIC, KORAPUT DEPARTMENT CIVIL ENGINEERING

Discipline: CIVIL ENGG	Semester: 6 TH	Name of the Teaching Faculty: SUCHITRA LENKA, PTGF
Subject: ADVANCE CONSTRUCTION TECHNIQUE AND EQUIPMENT	No. of days/ per week allotted: 05	Semester From date: 10.03.2022 To Date: 10.06.2022 No. of Weeks: 13
PRE-REQUISITE	Basic knowledge about Engineering mechanics.	
COURSE OBJECTIVES	CO1: Select proper material during construction in domain of advanced materials CO2: Select appropriate prefabrications in pursuance of standard codes CO3: Adopt structural requirements & Possible retrofits to improve earthquake resistance CO4: Comprehend requirement of various services need to be operational CO5: Comprehend necessity of soil reinforcing and prescribe appropriate strategy	
Week	Class Days	Theory/Practical Topics
1 ST	1 ST	Advanced construction materials :
	2 ND	Fibers and Plastics
	3 RD	Types of fibers- Steel, Carbon, glass fibers, Use of fibers as construction material, properties of Fibers.
	4 TH	Types of plastics- PVC, RPVC, HDPE, FRP, GRP etc. Colored plastic sheets
2 ND	1 ST	Continuation
	2 ND	Artificial Timbers – Properties and uses of artificial timber
	3 RD	Types of artificial timber available in market, strength of artificial timber.
	4 TH	Miscellaneous materials – Properties and uses of acoustics materials
3 RD	1 ST	QUIZ
	2 ND	Wall claddings, plaster boards, micro-silica
	3 RD	Artificial sand, bonding agents, adhesives etc. 3 Prefabr
	4 TH	Prefabrication
4 TH	1 ST	Introduction, necessity and scope of prefabrication of buildings,
	2 ND	History of prefabrication, current uses of prefabrication, types of prefabricated systems, classification of prefabrication,
	3 RD	Advantages and disadvantages of prefabrication
	4 TH	Continuation
5 TH	1 ST	The theory and process of prefabrication, design principle of prefabricated systems
	2 ND	Types of prefabricated elements, modular coordination
	3 RD	QUIZ
	4 TH	Earthquake Resistant Construction
6 TH	1 ST	Building Configuration

	2 ND	Lateral Load resisting structures
	3 RD	Building characteristics
	4 TH	QUIZ
7 TH	1 ST	Effect of structural irregularities-vertical irregularities, plan configuration problems.
	2 ND	Effect of structural irregularities-vertical irregularities.
	3 RD	Plan configuration problems.
	4 TH	Safety consideration during additional construction
8 TH	1 ST	Alteration of existing Buildings.
	2 ND	Continuation
	3 RD	Additional strengthening measures in masonry building-corner reinforcement.
	4 TH	lintel band, sill band, plinth band, roof band, gable band etc
9 TH	1 ST	Building Services
	2 ND	Cold Water Distribution in high rise building. lay out of installation
	3 RD	Hot water supply – General principles for central plants-layout
	4 TH	QUIZ
10 TH	1 ST	Sanitation –soil and waste water installation in high rise buildings
	2 ND	Electrical services – requirements in high rise buildings .Layout of wiring - types of wiring
	3 RD	Fuses and their types ,Earthingand their uses
	4 TH	Lighting – Requirement of lighting, Measurement of light intensity
	5 TH	Ventilation - Methods of ventilation (Natural and artificial Systems of ventilation) problems on ventilation
11 TH	1 ST	Continuation
	2 ND	Mechanical Services- Lifts, Escalator, Elevators – types and uses.
	3 RD	QUIZ
	4 TH	Construction and earth moving equipments –
12 TH	1 ST	Planning and selection of construction equipments
	2 ND	Study on earth moving equipments like drag line, t
	3 RD	Study and uses of compacting equipments like tamping rollers, Smooth wheel rollers, Pneumatic tired rollers and vibrating compactors
	4 TH	Soil reinforcing techniques
13 TH	1 ST	Necessity of soil reinforcing.
	2 ND	Use wire mesh and geo-synthetics.
	3 RD	Strengthening of embankments, Slope stabilization in cutting and embankments by soil reinforcing techniques
	4 TH	Rivisuion

LEARNING RESOURCES:

- 1 Agrawal & Shrikhande Earthquake Resistant Design of Structures Prentice-Hall of India Pvt. Ltd.
- 2 Swami Saran Reinforced Soil and its Engineering applications I.K. International Pvt. Ltd.
- 3 National building code of India_ BIS
- 4 Fred & Greeno Building Services Hand book Routledge Publisher

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Discipline: CIVIL ENGG	Semester: 6 th	Name of the Teaching Faculty: DUTIKA MUDULL, PTGF
Subject: CONCRETE TECHNOLOGY	No. of days/ per week allotted: 05	Semester From date: 10.03.2022 To Date: 10.06.2022 No. of Weeks: 13
PRE-REQUISITE	Basic knowledge about RCC, BMBC	
COURSE OBJECTIVES	CO1: Describe functions and characteristics of the concrete constituents CO2: Prescribe test requirements and methods for fresh and hardened concrete CO3: Design concrete mix CO4: Comprehend concrete production and inspection techniques CO5: Acquaint themselves with special concrete preparation and application	
Week	Classes	Theory/Practical Topics
1 ST	1 ST	Concrete as a construction material:
	2 ND	Grades of concrete. Advantages and disadvantages of concrete
	3 RD	Continuation
	4 TH	Cement: 2.1 Composition, hydration of cement, water cement ratio and compressive strength, fineness of cement, setting time, soundness. types of cement
2 ND	1 ST	Continuation
	2 ND	Continuation
	3 RD	Aggregate, Water and Admixtures:
	4 TH	Classification and characteristics of aggregate, fineness modulus, grading of aggregate, I.S.383
3 RD	1 ST	QUIZ
	2 ND	Quality of water for mixing and curing.
	3 RD	Important functions, classification of admixtures, I.S 9103, accelerating admixtures, retarding admixtures, water reducing admixtures, air containing admixtures
	4 TH	Properties of fresh concrete:
4 TH	1 ST	Concept of fresh concrete, workability, slump test, compacting factor test, V-tee consistency test and flow test, requirement of workability, I.S.1199
	2 ND	Continuation
	3 RD	Continuation
	4 TH	Properties of hardened concrete:
5 TH	1 ST	Cube and cylinder compressive strengths, flexural strength of concrete, stress, strain and elasticity
	2 ND	phenomena of creep and shrinkage, permeability, durability of concrete, sulphate, chloride and acid
	3 RD	Chloride and acid attack on concrete, efflorescence
	4 TH	Concrete mix Design :

6 TH	1 ST	Introduction: Data or input required for mix design.
	2 ND	2 Nominal mix concrete & design mix concrete.
	3 RD	Basic consideration for concrete mix design, Methods of proportioning concrete mix – I.S Code method of mix design(I.S.10262)
	4 TH	Production of concrete:
7 TH	1 ST	Batching of materials, mixing of concrete materials, transportation, placing of concrete
	2 ND	Continuation
	3 RD	Compaction of concrete (vibrators), Curing of concrete, Formwork-requirements and types ,stripping of forms. (Concepts only)
	4 TH	QUIZ
8 TH	1 ST	Inspection and Quality Control of Concrete
	2 ND	Quality control of Concrete as per I.S.456, Factors causing the variations in the quality of concrete
	3 RD	Mixing, Transporting, Placing & curing requirements of Concrete as per I.S.456
	4 TH	Inspection and Testing as per Clause 17 of IS:456. Durability requirements of Concrete as per I.S:456
9 TH	1 ST	Continuation
	2 ND	Continuation
	3 RD	Special Concrete
	4 TH	1 Introduction to ready mix concrete, high performance concrete, silica fume concrete, shot-crete concrete or gunitting (Concepts only).
10 TH	1 ST	Continuation
	2 ND	Silica fume concrete, shot-crete concrete or gunitting (Concepts only).
	3 RD	QUIZ
	4 TH	Gunitting & its type
11 TH	1 ST	Deterioration of concrete and its prevention:
	2 ND	Types of deterioration, prevention of concrete deterioration.
	3 RD	Corrosion of reinforcement
	4 TH	Effects and prevention of corrosion
12 TH	1 ST	Repair technology for concrete structures:
	2 ND	Symptom, cause and prevention
	3 RD	Remedy of defects during construction
	4 TH	Cracking of concrete due to different reasons. racking of concrete due to different reasons.
13 TH	1 ST	Repair of cracks for different purposes, selection of techniques, polymer based repairs, common types of repairs.
	2 ND	Revision
	3 RD	Revision
	4 TH	Revision

LEARNING RESOURCES:

- 1 M.S Shetty & A.K.Jain Concrete technology S.Chand
- 2 M.L.Gambhir Concrete technology Tata McGraw Hill.
- 3 A R Santhakumar. Concrete technology Oxford Publication

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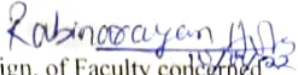
**GOVERNMENT POLYTECHNIC, KORAPUT
DEPARTMENT CIVIL ENGINEERING**


Discipline: CIVIL ENGG.	Semester: 6th	Name of the Teaching Faculty: RABINARAYAN HOTA , PTGF
Subject: LAND SURVEY PRACTICE II	No. of days/per week class allotted: 05	Semester From date: 10.03.2022 To Date: 10.06.2022 No. of Weeks: 13
PRE-REQUISITE	Basic knowledge about soil Survey.	
COURSE OUTCOMES	CO1: Set out circular curve in the field. CO2: Prepare survey map by conducting traverse survey with theodolite. CO3: Study and use of modern electronic surveying instruments for its different applications. CO4: Prepare contoured maps or plans requiring both the horizontal as well as vertical control .	
Week	Class Day	Theory / Practical Topics
1 ST	1 ST	TRIGONOMETRICAL SURVEYING & TACHEOMETRY
	2 ND	Do
	3 RD	Determination of height of 3 objects whose bases are accessible
	4 TH	Do
	5 TH	Determination of stadia constants
2 ND	1 ST	Do
	2 ND	Determination of horizontal distance an elevation with Staff vertical , by stadia method
	3 RD	Do
	4 TH	SETTING OUT CURVES AND SITE SURVEYING
	5 TH	Do
3 RD	1 ST	Setting out a simple circular curve by offsets from long chord
	2 ND	Do
	3 RD	Setting out a simple circular curve by offsets from the tangent
	4 TH	Do
	5 TH	Setting out a simple circular curve by offsets from chords produces
4 TH	1 ST	Do
	2 ND	Setting out a simple circular curve by Rankine's method of tangent angle (Deflection angles) Setting out a site the center line and foundation width of a building from the given plan
	3 RD	Do
	4 TH	Dividing an area into plots of given size
	5 TH	Do
5 TH	1 ST	STUDY OF MAP AND MAP SERIES
	2 ND	Do

	3 RD	Physical Map
	4 TH	Do
	5 TH	Topographic Map
	1 ST	Do
	2 ND	Road Map
6 TH	3 RD	Do
	4 TH	Political Map
	5 TH	Do
	1 ST	Economic & Resources Map
7 TH	2 ND	Do
	3 RD	Thematic Map
	4 TH	Climate Map
	5 TH	Do
	1 ST	Open Series map and Defense Series Map
8 TH	2 ND	Do
	3 RD	STUDY ON GPS & DGPS AND ETS
	4 TH	Do
	5 TH	GPS: - Global Positioning, GPS Signals, Errors of GPS, Positioning Methods
	1 ST	Do
9 TH	2 ND	DGPS: - Differential Global Positioning System
	3 RD	Do
	4 TH	Rover GPS Set up
	5 TH	Do
	1 ST	Download, Post-Process and Export GPS data
10 TH	2 ND	Do
	3 RD	Sequence to download GPS data from flashcards
	4 TH	Do
	5 TH	Sequence to export post process GPS data
	1 ST	Do
11 TH	2 ND	ETS: - Electronic Total Station
	3 RD	Do
	4 TH	Leveling
	5 TH	Do
	1 ST	Reference networks
12 TH	2 ND	Do
	3 RD	STUDY OF GIS AND MAP PREPARATION USING GIS
	4 TH	Do
	5 TH	Components of GIS, Integration of Spatial and Attribute Information
	1 ST	Do
13 TH	2 ND	Attribute Data Management and Metadata Concept
	3 RD	Do
	4 TH	Editing the layers
	5 TH	Do

LEARNING RESOURCES:

- 1 D. Gaikwad Advanced Surveying S.Chand
- 2 B. C. Punmia Surveying Vol. I, II, III Laxmi Publication, Delhi – 06
- 3 R. Agor A text book of surveying and leveling Khanna Publishers, Delhi6
- 4 N. N. Basak Surveying and Levelling Tata Mcgraw Hill


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Discipline: CIVIL ENGG.	Semester: 6th	Name of the Teaching Faculty: RABINARAYAN HOTA , PTGF
Subject: CWP & MS PROJECT	No. of days/per week class allotted: 05	Semester From date: 10.03.2022 To Date: 10.06.2022 No. of Weeks: 13
PRE-REQUISITE	Basic knowledge about costruction management & ms project	
COURSE OUTCOMES	CO1: Know the construction tools and select as per requirement. CO2: Construct brick walls and comprehend the challenges associated CO3: Fabricate formworks and reinforcements CO4: Know different plumbing tools and fixtures	
Week	Class Day	Theory / Practical Topics
1 ST	1 ST	Study of tools required for construction of masonry.
	2 ND	Do
	3 RD	Do
	4 TH	Lay out Plan of a building.
	5 TH	Do
2 ND	1 ST	Do
	2 ND	Construction of 1 & 1 ½ Brick thick walls in English Bond in Mudmortar including a corner.
	3 RD	Do
	4 TH	Do
	5 TH	Construction of 1 & 1 ½ Brick thick Pillar in Mud mortar.
3 RD	1 ST	Do
	2 ND	Do
	3 RD	Bar bending and fabrication of reinforcements for a beam.
	4 TH	Do
	5 TH	Do
4 TH	1 ST	Bar bending and fabrication of reinforcements for a slab.
	2 ND	Do
	3 RD	Do
	4 TH	Bar bending and fabrication of reinforcements for a lintel with chajja.
	5 TH	Do
5 TH	1 ST	Do


	2 ND	Bar bending and fabrication of reinforcements for a column.
	3 RD	Do
	4 TH	Do
	5 TH	Conducting a Non destructive compressive strength test on concrete beam using rebound Hammer as per I.S:1311(Part-2)-1992.
	6 TH	
6 TH	1 ST	Do
	2 ND	Do
	3 RD	Study of pipe joints and plumbing fixtures.
	4 TH	Do
	5 TH	Do
7 TH	1 ST	Field visits
	2 ND	Do
	3 RD	Do
	4 TH	Excavation of foundation, b) Masonry works, c) Plumbing works d) Painting (interior/ exterior), e) Wood works, f) Fabrication & concreting works, g)Flooring
	5 TH	Do
8 TH	1 ST	Do
	2 ND	Introduction to Microsoft Project
	3 RD	Do
	4 TH	Do
	5 TH	Project Management-Definition & concept
9 TH	1 ST	Do
	2 ND	Do
	3 RD	MS project scheduling for engineering
	4 TH	Do
	5 TH	Do
10 TH	1 ST	Creating a project plan
	2 ND	Do
	3 RD	Do
	4 TH	Creating project from a blank
	5 TH	Do
11 TH	1 ST	Do
	2 ND	Basics of Microsoft Project
	3 RD	Do
	4 TH	Do
	5 TH	Tracking the project progress
12 TH	1 ST	Do
	2 ND	Do
	3 RD	Tracking the project progress
	4 TH	Do
	5 TH	Do

13 TH	1 ST	Project Reporting
	2 ND	Do
	3 RD	Do
	4 TH	Custom views and field
	5 TH	Do

LEARNING RESOURCES:

1. M. R. Samal & R.L. Sahoo Construction Management Kalyani Publication
2. PS Gahlot & B M Dhir Construction planning and management New age international Publishers
3. Robert L Peurifoy & Willium B Ledbetter Construction Planning equipment and methods TMH Education

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Madhusmita Dehuri
HOD, Civil Department
Govt. Polytechnic, Koraput



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Discipline: CIVIL ENGG.	Semester: 6th	Name of the Teaching Faculty: MADHUSMITA DEHURI , HOD CIVIL
Subject: LIFE SKILL	No. of days/per week class allotted: 02	Semester From date: 10.03.2022 To Date: 10.06.2022 No. of Weeks: 13
PRE-REQUISITE	Basic knowledge about Personal traits.	
COURSE OUTCOMES	CO1: Developing communication skills CO2: Developing intra persona skills CO3: Developing decision making skills	
Week	Class Day	Theory / Practical Topics
1 ST	1 ST	Social skill
	2 ND	Society, Social Structure, Develop Sympathy and Empathy
2 ND	1 ST	PROBLEM SOLVING
	2 ND	Steps of Problem solving:
3 RD	1 ST	Presentation skill
	2 ND	Voice and language – Volume, Pitch, Inflection, Speed, Pause
4 TH	1 ST	Group discussion and interview techniques
	2 ND	<i>Interview technique</i>
5 TH	1 ST	Working in team
	2 ND	Leadership in teams, Handling frustrations in group
6 TH	1 ST	Task management
	2 ND	Introduction, Task identification, Task planning , Organizing and execution, Closing the task
7 TH	1 ST	Swot analysis
	2 ND	Analyse yourself with respect to your strength and weaknesses, opportunities and threats. Following points will be useful for doing swot.
8 TH	1 ST	Solve the true life problem assigned by the teacher
	2 ND	Working in a team
9 TH	1 ST	Form a group of 5-10 students and do a work for social cause e.g. tree plantation, blood donation, environment protection, camps on awareness like importance of cleanliness in slum area, social activities like giving cloths to poor etc.
	2 ND	Mock interview
10 TH	1 ST	Do
	2 ND	Discuss a topic in a group and prepare minutes of discussion.
11 TH	1 ST	Do
	2 ND	Deliver a seminar for 5 minutes using presentation aids on the topic given by your teacher
12 TH	1 ST	Do

	2 ND	Task management
13 TH	1 ST	Do
	2 ND	Decide any task to be completed in a stipulated time with the help of teacher. Write a report considering various steps in task management

LEARNING RESOURCES :

1. Dr. B.C.Punmia , Soil Mechanics & Foundation Engineering Laxmi publications (P) LTD
2. Dr. K.R.Arora , Soil Mechanics & Foundation Engineering Laxmi publications (P) LTD
3. Dr. V.N.S. Murthy , Soil Mechanics & Foundation Engineering, Vol-I UBS Publishers Distributors Ltd.

M.D.
10/03/22

Sign. of Faculty concerned

M.D.
10/03/22

Sign. of HOD

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