	P.C.	I.E.T., CHHENDIPADA	A, DIST- ANGL	JL
-	THEORY L	ESSON PLAN FOR TI	HE SESSION :	2023 - 24
ERA	NCH : CIVIL ENGG. SEMESTER : 5TH, SECTION :- (C1 & C2)	NAME OF THE	E FACULTY : (1) ANUPAMA BEHERA,
SEM	ESTER FROM DT. 01.08.2023 TO 09.12.2023	THEORY SUBJECT : E	NTREPRENEUR	SATSALA NAIK (LECT. IN MGMT.) SHIP AND MANAGEMENT & SMART TECHNOLOGY (TH-1)
CLAS	SS ALLOTTED / WEEK: 04 PERIODS			OTHER THE MINING SMART TECHNOLOGY (TH-1)
SI. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	UNIT - 1 : Entrepreneurship	10		
	Concept /Meaning of Entrepreneurship and Need of Entrepreneurship	1	AUGUST	D+:-01,08,2023
	Characteristics, Qualities and Types of entrepreneur, Functions	1		Dt - 02,08,2023
	Barriers in entrepreneurship	1		Dt - 04, 08,2023
	Entrepreneurs vrs. Manager	1		Dt - 07, 08, 2023
1	Forms of Business Ownership: Sole proprietorship, partnership forms and others	1		Dt - 08, 08, 2023
	Types of Industries, Concept of Start-ups	1		Dt - 09,08,2023
	Entrepreneurial support agencies at National, State, District Level(Sources): DIC, NSIC,OSIC, SIDBI, NABARD, Commercial Banks, KVIC etc.	2		Dt - 11,08,2023 Dt - 14,08,2023
	Technology Business Incubators (TBI) and Science and Technology Entrepreneur Parks	2		Dt - 16,08,2023, Dt -18,08,2023
	UNIT - 2 : Market Survey and Opportunity Identification (Business Planning)	8		
	Business Planning	2		Dt-21,08,2023, Dt-22,08,2023
2	SSI, Ancillary Units, Tiny Units, Service sector Units	1		Dt - 23,08,2023
	Time schedule Plan, Agencies to be contacted for Project Implementation	1		D1 - 25,08,2023
	Assessment of Demand and supply and Potential areas of Growth	1		Dt - 28,08,2023

SI. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	Assessment of Demand and supply and Potential areas of Growth	1		Dt - 29,08,2023
	Identifying Business Opportunity	1	SEPTEMBER	D+ - 01,09,2023
	Final Product selection	1		
	UNIT - 3 : Project report Preparation	4		D+-04,09,2023
3	Preliminary project report	1		D+-05,09,2023
	Detailed project report, Techno economic Feasibility	2		Dt - 08,09,2023, Dt -11,09,2023
	Project Viability	1		D+-12,09,2023
	UNIT - 4 : Management Principles	5		- 19/0-1/2003
	Definitions of management and Principles of management	1		Dt -13,09,2023
4	Functions of management (planning, organising, staffing, directing and controlling etc.)	2		DI-15,09,2023 DI-18,09,2023
	Level of Management in an Organisation	2		D+ -22,09,2023, D+-25,09,2023
	UNIT - 5 : Functional Areas of Management	10		
	a) Production management: Functions, Activities, Productivity, Quality control, Production Planning and control	2		Dt - 26,09,2023, Dt - 27,09,2023
5	b) Inventory Management: Need for Inventory management, Models/Techniques of Inventory management	1	OCTOBER	Dt - 03,10,2023
	c) Financial Management: Functions of Financial management, Management of Working capital, Costing (only concept), Break even Analysis, Brief idea about Accounting Terminologies: Book Keeping, Journal entry, Petty Cash book, P&L Accounts, Balance Sheets(only Concepts)	3		Dt - 04,10,2023 Dt - 06,10,2023 Dt - 09,10,2023

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SI. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	d)Marketing Management: Concept of Marketing and Marketing Management, Marketing Techniques (only concepts), Concept of 4P s (Price, Place, Product, Promotion)	2		D+ - 11, 10, 2023
	e) Human Resource Management: Functions of Personnel Management, Manpower Planning, Recruitment, Sources of manpower, Selection process, Method of Testing, Methods of Training & Development, Payment of Wages	2		D+ - 13,10,2023 D+ -16,10,2023
6	UNIT- 6 : Leadership and Motivation	6		
	a) Leadership: Definition and Need/Importance, Qualities and functions of a leader, Manager Vs Leader, Style of Leadership (Autocratic, Democratic, Participative)	2		Dt -17 , 10 , 2023 Dt - 18 , 10 , 2023
	b) Motivation: Definition and characteristics, Importance of motivation, Factors affecting motivation, Theories of motivation (Maslow), Methods of Improving Motivation, Importance of Communication in Business, Types and Barriers of Communication	4	NOVEMBER	D+ -20,10,2023 D+ -30,10,2023 D+ -31,10,2023
	UNIT - 7 : Work Culture, TQM & Safety	5	THE PEPEER	51 01/11, 20023
	Human relationship and Performance in Organization	1		Dt - 03,11,2023
_	Relations with Peers, Superiors and Subordinates	1		Dt - 06,11, 2023
7	TQM concepts: Quality Policy, Quality Management, Quality system	2		Dt - 07,11,2023 Dt - 0811,2023
	Accidents and Safety, Cause, preventive measures, General Safety Rules , Personal Protection Equipment(PPE)	1		Dt - 10,11,2023 Dt - 13,11,2023

SL No.		NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	UNIT - 8 : Legislation	6		
	Intellectual Property Rights(IPR), Patents, Trademarks, Copyrights	2		DI-14,11,2023, DI-15,11,2023
В	Features of Factories Act 1948 with Amendment (only salient points)	2		DH - 17, 11, 2023, DH - 20, 11, 2023
	Features of Payment of Wages Act 1936 (only salient points)	2		D+-21, 11, 2023, D+-22, 11, 2023 D+-34, 11, 2023
	UNIT - 9 : Smart Technology	6		1,1111111111111111111111111111111111111
	Concept of IOT, How IOT works	1		Dt - 28, 11, 2023, Dt -29, 11, 2023
9	Components of IOT, Characteristics of IOT, Categories of IOT	2		Dt-01,19,2023, N-04,12,2023
	Applications of IOT- Smart Cities, Smart Transportation, Smart Home, Smart Healthcare, Smart Industry, Smart Agriculture, Smart Energy Management etc.	3		D+ - 05,12,2023 D+ - 06,12,2023 D+ - 08,12,2023

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Purma Chendra Institute of Engineering & Technology CHHENDIPADA, ANGUL

THEORY LESSON PLAN FOR THE SESSION 2023 - 24

BRANCH : CIVIL ENGG. SEMESTER : 5TH, SECTION :- (C1 & C2)

NAME OF THE FACULTY: (1) ER. NANDINI PRADHAN, (2) ER. SIDHANTA SEKHAR MAHAR (LECT. IN CIVIL ENGG.)

SEMESTER FROM DT. 01.08.2023 TO 09.12.2023

THEORY SUBJECT: STRUCTURAL DESIGN - II (TH-2)

CLASS ALLOTTED / WEEK: 04 PERIODS

SI. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	UNIT-1: Introduction	6		
	Common steel structures, Advantages & disadvantages of steel structures	1	AUGUST	Dt - 01 108, 2023
	Types of steel, properties of structural steel	1		D1-03,08,2023
1	Rolled steel sections, special considerations in steel design	1		Dt-04,08,2023
	Loads and load combinations.	1		D+-07.08,2023
	Structural analysis and design philosophy	1		D+-08,08,2023
	Brief review of Principles of Limit State design	1		D+ -10,08,2023
	UNIT-2 : Structural Steel Fasteners and Connections.	10		DT 101001 2023
	Bolted Connections Classification of bolts, advantages and disadvantages of bolted connections	1		Dt-11,08,2023
	Different terminology, spacing and edge distance of bolt holes.	1		Dt - 14,08,2023
2	Types of bolted connections.	1		Dt - 17,08,2023
	Types of action of fasteners, assumptions and principles of design.	1		D+ - 18,08,2023
	Strength of plates in a joint, strength of bearing type bolts (shear capacity & bearing capacity), reduction factors, and shear capacity of HSFG bolts.	1		Dt - 21,08,2023

SI. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	Analysis & design of Joints using bearing type and HSFG bolts.Efficiency of a joint	1		Dt - 22,08, 2023
	Welded Connections	1		D+ - 24,08,2023
	Advantages and Disadvantages of welded connection	1		
	Types of welded joints and specifications for welding,	1		Dt-25,08,2023 Dt-28,08,2023
	Design stresses in welds, Strength of welded joints.	1		Dt - 29,08, 2023
	UNIT - 3 : Design of Steel tension Members	10		DI 97108, 2023
	Common shapes of tension members	1		D+-21,08,2023
	Types of failure of tension members	1		Dt - 31, 08, 2023
	Design strength of a tension member (i) due to yielding of gross section	1	SEPTEMBER	
	Design strength of a tension member (ii) due to rupture of critical section	1		31 31 11 11 11 11 11
3	Design strength of a tension member (ii) due to block shear of bolted connection	1		Dt-04,09,2023 Dt-05,09,2023
	Design strength of a tension member (ii) due to block shear of welded connection	1		Dt-07,09,2023
	Problems based on design strength of tension member	1		Dt - 08,09,2023
	Concepts of shear lag	1		Dt - 11, 09, 2023
	Maximum values of effective slenderness ratio.	1		
	Revision	1		Dt -12,09,2023 Dt -14,09,2023
	UNIT - 4 : Design of Steel Compression Members	10		DA 1710712023
4	Common shapes of compression members	1		Dt -15,09,2023
	Buckling class of cross sections	1		Dt - 18,09,2023

SI. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	Maximum values of slenderness ratio, Radius of Gyration	1		Dt - 21,09,2023
	Design compressive stress and strength of compression members.	1		D+-22109, 2023
	Design compressive stress for columns	1		
	Problems based on design compressive stress for columns	1		D+-25,09,2023 D+-26,09,2023
	Problems based on compressive stress and strength of compression members.	1		D+ - 28,09, 2023
	Analysis and Design of compression members (axial load only).	1	OCTOBER	Dt - 03, 10, 2025
	Problems regarding Design of compression members	1		D+-05,10,2023
	Revision	1		D+-06,10,2023
	UNIT - 5 : Design of Steel Beams	10		DI OBITOTO CAS
	Common cross sections and their classification	1		D+-09,10,2023
	Deflection limits as per IS Code	1		D+-10,10,2023
	Discussion on Web Buckling	1		Dt -12,10,2023
	Discussion on Web crippling	1		Dt-13,10,2023
5	Design of laterally supported beams against bending	1		Dt - 16, 10, 2023
	Problems based on design of laterally supported beams against bending	1		D+-17,10,2023
	Design of laterally supported beams against shear	1		
	Problems based on design of laterally supported beams against shear	1		Dt - 19,10,2023 Dt - 20,10,2023
	Problems discussion	1		D+ - 20 > 10, 2023
	Class Test - I	1		Dt - 31, 10, 2023

SI. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	UNIT - 6 : Design of Tubular Steel Structures	6		
	Round Tubular Sections	1	NOVEMBED	D+-02,11,2023,
	Permissible Stresses	1	HOWENTER	The second secon
6	Tubular Compression members	1		D+-03, 11, 2023, D+-06, 11, 2023
	Tubular Tension members	1		Dt - 07,11,2023, Dt - 09,11,2023
	Joints in Tubular trusses	1		D+-10,11,2023, D+-13,11,2023
	Revision	1		Dt - 14, 11, 2023, D+16, 11, 2023
	UNIT- 7 : Design of Masonry Structures	9		11 11111919 , DA-10/11/12/03
	Introduction to masonary structures	1	N.	D+-17,11,2023,
	Design considerations for Masonry walls	1		D1 - 20,11,2023, D4-21,11,2023
	Design considerations for columns	1		Dt - 23,11,2023,
7	Problems based on design considerations for masonary walls & columns	1		Dt - 24, 11,2023, Dt -28, 11, 2022
	Load Bearing & Non-Load Bearing walls	1		D+-30,11,2023,
	Permissible stresses	1	DECEMBER	
	Slenderness Ratio	1	١٠٠٠)	
	Effective Length, Height & Thickness.	1		Dt - 04,12,2023 Dt - 05,12,2023, Dt - 7,12,202
	Revision	1		Dt - 08, 19, 2083
	Carl N. Poraghan	Bake.		Warden

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	THEORY I	ESSON PLAN FOR	THE SESSION	N 2023 - 24
BRA	NCH : CIVIL ENGG. SEMESTER : 5TH, SECTION :-	(C1 & C2)	NAME OF TH ENGG.), (2) E (LECT. IN CIV	E FACULTY : (1) ER. BABITA SAHU (H.O.D. IN CIVIL ER. SIBANI SAHU, (3) ER. SIDHANTA SEKHAR MAHAR
	ESTER FROM DT. 01.08.2023 TO 09.12.2023	THE		T : RAILWAY & BRIDGE ENGINEERING (TH-3)
CLAS	SS ALLOTTED / WEEK: 04 PERIODS			
SI. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	UNIT - 1 : Introduction	2		
1	Railway terminology, Advantages of railways	1	AUGUST	04-01,08,2023
	Classification of Indian Railways	1		D+ - 02, 08, 2023
	UNIT - 2 : Permanent Way	5		
	Definition of permanent way	1		Dt - 03,08,2023
2	Components of a permanent way	1		Dt - 07,08,2023
_	Concept of gauge	1		Dt - 08,08,2023
	Different gauges prevalent in India	1		D+-09,08,2023
	Suitability of the gauges under different conditions	1		Dt - 10, 08, 2023
	UNIT -3 : Track Materials	10		D1 +0108 10043
	Introduction to Rails	1		Dt - 14,08,2023
	Functions of Rails, requirement of an ideal joint	1		Dt - 16,08, 2023
3	Types of rail sections, length of rails	1		D4 - 17,08,2023
	Rail joints – types, requirement of an ideal joint	1		Dt - 21,08,2023
	Purpose of welding of rails & its advantages. Creep- definition, cause & prevention	1		Dt - 22,08,2023, Dt - 23,08,20
	Definition, function & requirements of sleepers	1		Dt - 24,08,2023

D+- 24,08,2023

SI. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	Classification of sleepers. Advantages & disadvantages of different types of sleepers	1		Dt - 28,08,2023
	Functions & requirements of ballast. Materials for ballast	1		Dt - 29,08,2023
	Fixtures for Broad gauge. Connection of rails to rail- fishplate, fish bolts	1		Dt -31,08,2023
	Connection of rails to sleepers	1	SEPTEMBER	01-04,09,2023
	UNIT - 4 : Geometric for Broad Gauge	10		-1 -1, -1, -1
	Typical cross – sections of single & double broad gauge railway track in cutting	1		D+-05,09,2023
	Typical cross – sections of single & double broad gauge railway track in embankment	1		D+ - 07,09; 2023
	Permanent & temporary land width	1		Dt - 11,09,2023
	Gradients for drainage	1		Dt - 12,09,2023
4	Numerical problems based on Gradients	1		Dt - 13,09, 2023
	Introduction on Super elevation	1		D+ - 14,09,2023
	Necessity of Superelevation	1		Dt - 18,09,2023
	Lomotations of Superelevations	1		Dt - 21,09,2023
	Revision	1		Dt - 25,09,2023
	Class Test -I	1		Dt-26,09,2023
	UNIT - 5 : Points and Crossings	4		Di 40.01.4043
	Definition of Points & its necessity	1		Dt -27,09,2023
5	Types of points with diagrams	1		Dt- 28,09,2023
	Definition of Crossings & its necessity	1	OCTOBER	D7-03.10,2023
	Types of crossings with diagrams	1	,	D1 - 04,10,2023 & Dt - 05,10,2023

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SI. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	UNIT - 6 : Laying & Maintenance of Track	4		
	Methods of Laying	1		D+-09,10,2023
6	Maintenance of track	1		D1-10,10,2023
	Duties of a permanent way inspector	1		Dt - 11,10,2023
	Revision	1		Dt -12,10,2023
	UNIT - 7 : Introduction to Bridges	2		DI 1911119
7	Definitions & Components of a bridge	1		Dt - 16, 10,2023
	Classification of bridges , Requirements of an ideal bridge	1		Dt - 17, 10, 2023 Dt - 18, 10, 2023
	UNIT - 8 : Bridge Site Investigation, Hydrology & Planning	5		
	Selection of bridge site, Alignment,	1		Dt-19,10,2023
9	Determination of Flood Discharge	1		D1-30,10,2023
	Waterway & economic span	1		Dt-31,10,2023
	Afflux, clearance & free board	1	NOVEMBER	
	Revision	1		D+ - 03,11,2023
	UNIT - 9 : Bridge Foundation	8		DI - 0971(18095
	Scour depth minimum depth of foundation	1		Dt - 06,11,2023
3	Types of bridge foundations i.e. spread foundation	1		Dt - 07,11,2023,
	Pile foundation	1		Dt - 08,11,2023
	Caission foundation	1	•	Dt - 09,11,2023

SI. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	Raft foundation	1		Dt-13, 11, 2023
	Open well foundations	1		Dt - 14, 11, 2023
	Coffer dams	1		
	Revision	1		Dt-16,11,2023
	UNIT - 10 : Bridge Substructure and Approaches	5		767171 2043
	Types of piers	1		D7 - 20, 11, 2023
10	Types of abutments	1		D+-31, 11, 2023
	Types of wing walls	1		Dt - 22, 11, 2023, 207 - 23, 11, 2023
	Approaches	1		Dt - 28, 11, 2023
	Revision	1		D+- 29, 11, 2023
	UNIT - 11 : Culvert & Cause ways	5		DI 97,777 QUES
	Introduction to Culverts	-1		Dt-30,11,2023
11	Types of culvers – brief description	1	DECEMBER	
	Introduction to Cause ways.	1	JULIA JULIA	Dt - 05,12,2023
	Types of causeways – brief description	1		D+-06,12,2023
	Revision	1		Dt - 07, 12,2023

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THEORY LESSON PLAN FOR THE SESSION 2023 - 24

BRANCH : CIVIL ENGG. SEMESTER : 5TH, SECTION :- (C1 & C2)

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

SEMESTER FROM DT. 01.08.2023 TO 09.12.2023

THEORY SUBJECT: WATER SUPPLY & WASTE WATER ENGG. (TH-4)

SI. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	SECTION A: WATER SUPPLY			
	UNIT - 1 : Introduction to Water Supply, Quantity and Quality of water	10	2	
	Necessity of treated water supply	1	AUGUST	Dt-01108,2023
	Per capita demand, variation in water demand	1		D+-02108,2023
	Factors affecting per capita water demand	1		D+-03,08,2023
1	Methods of forecasting population, Numerical problems using different methods	1		Dt-04,08,2023,Dt-07,08,2023
	Impurities in water – organic and inorganic	1		D+-08,08,2023
	Harmful effects of impurities	1		DF-09,08,2023
	Analysis of water – physical, chemical and bacteriological	1		Dt-10,08,2023
	Water quality standards for different uses	1		D+-11,08,2023
	Numerical problems using different methods of forecasting population	1		Dt - 14,08,2023, Dt -16,08,202
	Revision	1		D4-17,08,2023

SI. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	UNIT - 2 : Sources and Conveyance of Water	8		
	Underground sources – aquifer type & occurrence – Infiltration gallery, infiltration well, springs, well	1		Dt - 18,08,2023
	Yield from well- method s of determination, Numerical problems using yield formulae	1		D+ - 21,08,2023
2	Intakes – types, description of river intake, reservoir intake, canal intake	1		Dt - 22,08,2023
	Pumps for conveyance & distribution – types, selection, installation.	1		Dt - 23, 08, 2023
	Pipe materials – necessity, suitability, merits & demerits of each type	1		Dt - 24,08,2023
	Pipe joints – necessity, types of joints, suitability, methods of jointing	1		Dt - 25,08,2023
	Laying of pipes – method	1		D+ - 38,08,2023
	UNIT - 3 : Treatment of Water	12		
	Introduction to treatment of water, Flow diagram of conventional water treatment system	1		D+-39,08,2023
	Plain Sedimentation : Necessity, working principles	1		D+ - 31,08,2023
3	Sedimentation tanks – types, essential features	1	SEPTEMBE	R D+ -01,09,2023
	Operation & maintenance of sedimentation tank	1		D+ -04,09,2023
	Sedimentation with coagulation: Necessity, principles of coagulation	1		D1 - 05,09,2023, D1 - 07,09,2023
	Types of coagulants, Flash Mixer, Flocculator, Clarifier	1		D1-08,09, 2023

SI. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	Filtration : Necessity, principles, types of filters	1		D+ 11 00 0002
	Slow Sand Filter, Rapid Sand Filter and Pressure Filter – essential features	1		Dt-12,09,2023
	Disinfection : Necessity, methods of disinfection	1		Dt - 13, 09, 2023
	Chlorination – free and combined chlorine demand, available chlorine,	1		D1-14,09,2023
	Residual chlorine, pre-chlorination, break point chlorination, super chlorination	1		DH - 15,09,2023
	Softening of water – Necessity, Methods of softening – Lime soda process and Ion exchange method	1		D+-18,09,2023 D+-21,09,2023
	UNIT - 4 : Distribution System And Appurtenance in Distribution System:	8		
	General requirements, types of distribution system- gravity	1		D+-22,09,2023
	Distribution system- direct and combined system	1		Dt-25,09,2023
	Methods of supply – intermittent and continuous	1		Dt -20,09,2023
4	Distribution system layout	1		Dt -37, 69, 2023
	Types of distribution system, comparison between the various types of distribution system	1		Dt - 28,09,2023
	Valves - types of valves, features of different types of valves	1	OUTEBER	•
	Uses of valves, purpose-sluice valves, check valves, air valves	1		D1-04.10.2023
	Scour valves, Fire hydrants, Water meters	1		Dt - 05,10,2023

SI. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	UNIT - 5 : W/s Plumbing in Building	2		
5	Method of connection from water mains to building supply	1		D+ -06, 10, 2023
	General layout of plumbing arrangement for water supply in single storied and multi-storied building as per I.S. code.	1		Dt - 09,10,2023 Dt - 10,10,2023
	SECTION B: WASTE WATER ENGINEERING			51-10,10,3023
	UNIT - 6 : Introduction	5		
	Aims and objectives of sanitary engineering	1		D+-11,10,3023
	Definition of terms related to sanitary engineering	1	6	22 PM 23 PM 24 PM
6	Systems of collection of wastes- Conservancy and Water Carriage System	1		Dt - 12, 10, 2023 Dt - 13, 10, 2023
	Features, comparison, suitability of Conservancy System	1		Dt - 16, 10, 2023
	Features, comparison, suitability of Water Carrige System	1		Dt - 17,10,2023
	UNIT - 7 : Quantity and Quality of Sewage	7		-1 11/101-(14)
	Quantity of sanitary sewage – domestic & industrial sewage	1		Dt - 18, 10, 2023
	Variation in sewage flow, numerical problem on computation quantity of sanitary sewage	1		Dt - 19,10,2023, Dt-30,10,2023
7	Computation of size of sewer, application of Chazy's formula	1		D+-31,10,2023
	Limiting velocities of flow : self-cleaning and scouring	1	NOVEMBER	Dt-01,11,2023
	General importance, strength of sewage, Characteristics of sewage-physical, chemical & biological	1		Dt - 02,11,2023 Dt - 03,11,2023

SI. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	Concept of sewage-sampling, Tests for – solids	1		Dt - 06,11,2023
	Tests for pH, dissolved oxygen, BOD, COD	1		Dt - 07,11,2023
	UNIT - 8 : Sewerage System	5		151 - 0711114043
	Types of system-separate, combined, partially separate , features	1		Dt - 08, 11, 2023, Dt - 09,112023
8	Comparison between the types, suitability	1		D+ - 10,11,2023
iā.	Shapes of sewer – rectangular, circular	1		Dt -13.11.2023
	Features, suitability of shapes of sewer	1		D+-14,11,2023
	Laying of sewer-setting out sewer alignment	1		Dt -15,11,2023, Dt -16,11,2023
	UNIT - 9 : Sewer Appurtenances and Sewage Disposal	7		D1 13/1(1409) 101 (-1111)-92
	Manholes and Lamp holes – types, features, location, function	1		Dt-17,11,2023
	Inlets, Grease & oil trap – features, location, function	1		D+-20,11,2023
9	Storm regulator, inverted siphon – features, location, function	1		D+-21,11,2023
3	Disposal on land – sewage farming, sewage application and dosing	1		D+-21,11,2023, D+-22,11,2023
	Sewage sickness-causes and remedies	1		D1-23, 11, 2023
	Disposal by dilution – standards for disposal in different types of water bodies	1		D+-24,11,2023
	Self purification of stream	1		D+-24,11,2023 D+-28,11,2023

SI. No:	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	UNIT -10 : Sewage Treatment	8		
	Introduction to sewage treatment	1		D1 - D8 11 2022
	Principles of treatment	1		Dt -28, 11, 2022
	Flow diagram of conventional treatment	1		Dt-29,11,2023 Dt-20,11,2023
	Primary treatment & its necessity	1	DECEMBER	
10	Principles, essential features of primary treatment	1		D+ -04.12,2023
	Functions of primary treatment	1		Dt-04, 12,2023
	Secondary treatment & its necessity and principles	1		D+ - 05,12,2023
	Essential features & functions of secondary treatment	1		Dt - 05, 12, 2023
	UNIT - 11 : Sanitary Plumbing for Building	3		7 037.19.1443
	Requirements of building drainage, layout of lavatory blocks in residential buildings, layout of building drainage	1		Dt - 06, 12, 2023
11	Plumbing arrangement of single storied & multi storied building as per I.S. code practice	1		D+ - 07 192 12023
	Sanitary fixtures – features, function, and maintenance and fixing of the fixtures – water closets, flushing cisterns, urinals, inspection chambers, traps, anti syphonage pipe	1	0	D+ - 08,1212023

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. 1	THEORY LE	E.T., CHHENDIPADA SSON PLAN FOR TH	, DIST- ANG	JL 2022 24
RAN	ICH : CIVIL ENGG. SEMESTER : 5TH, SECTION : (C		NAME OF TH	HE FACULTY: (1) ER. SUNIL KUMAR SAHU, AM SAGAR SAHOO (LECT. IN CIVIL ENGG.)
	STER FROM DT. 01.08.2023 TO 09.12.2023	THEORY S		TIMATING & COST EVALUATION - II (TH-5)
SI. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	UNIT-1: Detailed Estimate of Culverts and Bridges	12		
	Introduction to culvert, types of culvert, parts of a culvert & difference between culvert & bridge, detailed study of plan and sectional elevation of RCC deck slab culvert with right angled wing wall	1	AUGUST	D1-02,08,2023
	Calculation of E/W in excavation , cement concrete work in foundation & Brick work in cement mortar of RCC deck slab culvert, Bar bending schedule	1		Dt-03,08,2023
1	Calculation of quantity of RCC work & reinforcement, Calculation of quantity of cement concrete wearing coat &cement pointing	1		Dt - 04 108, 2023
	Detailed study of plan & sectional elevation of hume pipe culvert with right angled wing wall	1		D+ - 05,08,2023
	Calculation of quantity of E/W in excavation and cement concrete work in foundation of hume pipe culvert	1		D+-09,08,2023
	Calculation of quantity of brickwork in cement mortar of hume pipe culvert	1		Dt -10,08,2023
	Calculation of quantity of cement pointing and length of hume pipe for hume pipe culvert	1		Dt-11,08,2023
	Process of calculation to estimate earthwork, concrete work & masonry work of abutment of a splayed culvert	1		D1-12,08,2023, D1-16,08,202

SI. Ņc.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	Process of calculation to estimate earthwork, concrete work for wing wall of a splayed culvert	1		Dt -17,08,2023
	Process of calculation to estimate masonry work below & above G.L for wing wall of a splayed culvert, detailed study of plan & sectional elevation of a slab culvert with splayed wing wall	1		Dt-18,08,2023
	Calculation of quantity of E/W in excavation and cement concrete work in foundation of slab culvert with splayed wing wall	1		Dt - 19,08,2023
	Calculation of quantity of E/W in excavation and cement concrete work in foundation of slab culvert with splayed wing wall	1		D+ - 23,08,2023
	UNIT- 2 : Estimate of Irrigation Structures	14		2
	Concept of fall, its types and necessitY,Study of plan& sectional elevation of a vertical fall,Calculation of quantity of earthwork in excavation of vertical fall,Calculation of quantity of earth work in excavation & cement concrete work in foundation of vertical fall	1		D7-24,08,2023 D+-25,08,2023
2	Calculation of quantity of earthwork in excavation of vertical fall, Calculation of quantity of earth work in excavation & cement concrete work in foundation of vertical fall	1		D+ - 26,08,2023
	Calculation of quantity of brickwork in 1:4 cement mortar of vertical falL, Calculation of quantity of brick on edge flooring & brick pitching	1		D+ - 31,08,2023
	Calculation of quantity of cement pointing in 1:3 cement mortar, Study of plan& sectional elevation of a vertical fall	1	SE PTEMBE	Dt-01,09,2023

l. o.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	Calculation of quantity of earthwork in excavation of vertical fall. Calculation of quantity of earthwork in excavation & cement concrete work in foundation of vertical fall.	1		Dt - 02,09,2023 Dt - 07,09,2023
	Calculation of quantity of brickwork in 1:4 cement mortar of a vertical fall.	1		D1 - 08, 09, 2023
	Calculation of quantity of brick on edge flooring & brick pitching of a vertical fall, cement pointing in 1:3 cement mortar	1		D+ 09,09,2023
	Concept of cross drainage work, its types and introduction to drainage syphon ,Study of plan and sectional elevation of a drainage syphon	1		D+ - 13,09,2093
	Calculation of quantity of earthwork in excavation and cement concrete work in foundation of drainage syphon	1		D1 - 14,09, 2023
	Calculation of quantity of brickwork in 1:4 cement mortar of drainage syphon	1		Dt - 15,09,2023
	Calculation of quantity of RCC work in slab, 10 cm thick brick flooring in 1:3 cement mortar & 10 cm dry brick pitching of drainage syphon	1		Dt - 16,09,2023
	Calculation of quantity of cement pointing in 1:2 cement mortar of drainage syphon, Calculation of quantity of brickwork in 1:4 cement mortar of drainage syphon	1		D+ - 21,09,2023
	Study of plan and sectional elevation of a drainage syphon, Calculation of quantity of earthwork in excavation and cement concrete work in foundation of drainage syphon	1		Dt - 22,09,2023
	Calculation of quantity of RCC work in slab, PCC work in coping & 10 cm dry brick pitching of drainage syphon	1		Dt- 93,09,2023

SI. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	UNIT- 3 : Detailed Estimate of Roads	12		
	Concept of lead and lift, derivation of formula for calculation of earthwork using different methods	1		D1-27,09,2023
	Problem discussion on calculation of earthwork using Mid-sectional Area method, Mean sectional Area Method and Prismoidal Formula	1		D+-28,09,2023,D1-30,09,2023
	Calculation of earthwork of a road in banking	1	OCTERGE	Dt-04,10,2023
	Calculation of earthwork of a road in banking	1	TO DITEIN	
	Calculation of earthwork of a road in banking and cutting	1		Dt - 06,10,2023
3	Calculation of earthwork of a road in banking and cutting	1		D+ - 07,10,2023
	Detailed estimate of a water bound macadam road	1		Dt-11,10,2023
	Detailed estimate of a water bound macadam road	1		Dt - 12,10,2023
	Detailed estimate of a national highway in cutting and banking	1		Dt -13,10,2023
	Detailed estimate of a national highway in cutting and banking	1		D7 - 14,10,2023
	Revision	1		Dt-18,10,2023
	Class test	1		
	UNIT- 4 : Miscellaneous Estimates	12		D+ - 19, 10, 2023
	Tube well	1		Dt - 20, 10, 2023
4	Tube well problems	đ	NOVEMBER	the second secon
	Tube well problems	1	,-,,	1.
	Piles and Pile cap	1		D+ - 03,11,2023 D+ - 03,11,2023

SI. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	Piles and Pile cap problems	1		D+ = 04 11 2022 21 08 11 2022
	Piles and Pile cap problems	1		Dt - 04,11,2023, Dt - 08,11,2023
	Isolated footings	1		212-7-2 U.S. 50 St
	Isolated footings problems	1		Dt - 10, 11, 2023
	Isolated footings problems	1		D+ - 11, 11, 2023
	Combined footings.	1		Dt - 15, 11, 20,23
	combined footings problems	1		Dt - 16, 11, 2023 Dt - 17, 11, 2023
	Combined footings problems	1		
	UNIT-5 : PWD Accounts works	10	·	Dt-18, 11, 2023, Dt-22, 11, 2023
	Classification of work & method of execution of work through the contractors, departmentally, contract and aggreement,	1		Dt-23, 11, 2023, 24, 11,2023
	Work order, item rate contract, lump sum contract, labour contract , piece work agreement, scheduled contract, cost plus percentage contract	1		D+-95,11,2023
5	Explanation of various item – administrative approval, technical sanction, contingency budget, tender, preparation of notice inviting tender, receiving of quoatations, earnest money, security deposit,	1		D+-29,11,2023
	Advance payment, on account payment, intermediate payment, final payment, running bill, final, regular and temporary establishment, cash, major and sub head of account,	1		D+-30,11,2023
	Temporary advance, issue rate, storage, supervision charges, suspense account, debit, credit, book transfer, voucher	1	DECEMBER	Dt - 01, 12, 2023

).	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	Measurement book use & maintenance, procedure of making entries of measurement of work and supply of material, labour employed, standard measurement book and common irregularity	1		Dt-02,12,2023
	Muster roll & Aquittance roll : its preparation & use for making payment of pay and wages	1		Dt - 06,19,2023
	Labour and labour report, method of labour payment, use of forms and necessity of submission	1		DH - 07,12,2023
	Classification of stores, receipt/issue statement on standard form, method of preparation of stock account, preparation and submission of returns, verification of stock, shortage and excess	1		D+-08, 92, 2023
	Revision	1		D+ - 09,12,202B

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			HHENDIPADA, DIST- ANGUL	
RRA	PRACTICANCH:-CIVIL ENGG.	AL LESSON	PLAN FOR THE SESSION 2023 - 2024	
10000	CAN RECOVER OF CHARLES AND A PROPERTY OF THE P		SEMESTER: 5TH	SECTION:- C1
T.A	ME OF THE FACULTY : (1) ER. BABITA SAHU (H.O.D , CIVIL ENGG.)). IN CIVIL E	ENGG.), (2) ER. SATYAJIT BEHERA, (3)	ER. IPSITA NAYAK
SEN	MESTER FROM DT. 01.08.2023 TO 09.12.2023		PRACTICAL SUBJECT: CIVI	L ENGINEERING LABII (PR-1)
CLA	SS ALLOTTED /WEEK:- 06 PERIODS			E ENGINEERING EABII (FR-1)
SI. 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
	TESTS ON SOIL:			DATE
	Determination of specific gravity of soil by pycnometer/ Density bottle.	AUGUST	01	Dt-01,08,2023
	Determination of field Density of soil by core cutter method.		01	Dt - 07/08/2023
	1.3 Determination of particle size gradation of sand/Gravel by sieve analysis.		0)	0+-08,08,2023
1	1.4 Wet Mechanical using pippette Method for clay and silt.		61	D+ - 14,08,2023
•	1.5 Determination of liquid limit by soil by casagrande's apparatus.		0)	Dt - 21,08,2023
	1.6 Determination of plastic limit of soil.		0 1	D+ - 22 , 08 , 2023
	1.7 Determination of shrinkage limit of soil.		01	D+-28,08,2023
	1.9 Determination of MDD & OMC of soil by using modified proctor test.		01	Dt - 29, 08, 2023
	1 12 Determination of CBR value using laboratory CBR testing device.	SEPT	02	Dt - 04, 09, 2023 Dt - 05, 09, 2023

SI. 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
	1.10 Determination of C and Φ of soil sample by triaxial test device.		02	Dt - 11, 09, 2023 Dt - 12, 09, 2023
	1.3 Determination of coefficient of permeability of carse grained soils under constant head method.		0.1	D+-18,09,2023
	FYDRAULICS LABORATORY:			
	2.1 Verification of Bernoulli's Theorem		01	D+ - 25,09,2023
2	2.2 Determination of coefficient of Discharge of a rectangular notch fitted in open Channel.		02	Dt - 26,09,2023
	2.3 Determination of coefficient of Discharge of a venturimeter, Orificemeter fitted in a pipe	0CT	62	DH - 03, 10, 2023 DH - 09, 10, 2023
	2.4 Determination of head Loss due to friction and spefficient of friction for flow through pipe.		02	Dt-10,10,2023 Dt-16,10,2023
	TRANSPORTATION LABORATORY:			Dt - +
	3.1 Penetration test of bitumen.		01	- Dt - 17,10,2023
3	3 2 Ductility test of bitumen.		01	Dt -30,10,2023
	3 3 Viscosity test of bitumen.		01	Dt -31,10,2023
	3 4 Determination of bitumen content by centri fuge extractor.	NOV	0)	Dt - 06, 11, 2023

SI. 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
	PUBLIC HEALTH ENGINEERING LABORATORY:			
	4.1 Determination of turbidity of water sample using turbidimeter/Nephlometer/Jackson's candle turbidimeter.		02	D+-07,11,2023 D+-13,11,2023
	Determination of PH of water sample using (a) PH meter (b) colour computer		02	Dt-14,11,2023 Dt-20,11,2023
4	4.3 Determination of chlorid conent of a water sample using method of titration.		01	D+ - a1, 11, a023
	4.4 Determination of coagulant (Alum) dose requirment for a turbid water sample by jar test.		0)	Dt - 38,11,2023
	4.5 Determination of dissolved oxygen of water sample.	D€C	0.1	Dt - 04,12,2023
	4.6 Determination of bacteriological quality of water sample by coliform test.		61	Dt - 05, 12, 2023

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	PRACTIC	AL LESSO	N PLAN FOR THE SESSION 2023 - 24	
	ANCH:-CIVIL ENGG.		STER: 5TH	SECTION:- C1
NAN	ME OF THE FACULTY : (1) ER. SUNIL KUMAR SAHU	, (2) ER. PR	ITAM SAGAR SAHOO (LECT. IN CIVI	L ENGG.)
SEN	MESTER FROM DT. 01.08.2023 TO 09.12.2023			IMATING PRACTICE – II (PR-2)
CLA	ASS ALLOTTED /WEEK:- 03 PERIODS			ii (1 K-2)
SI. 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
	Estimate of Culverts and Bridges:			
1	Detailed estimate of a RCC slab culvert with right angled wing walls with bar bending schedule.	AUGUST	02	D+-05,08,2023 D+-10,08,2023
	detailed estimate of RCC Hume pipe culvert with splayed angled wing wall		02	Dt - 17,08,2023 Dt -24,08,2023
	Estimate of Irrigation Structures:			
2	2.1 Detailed estimate of simple type of vertical fall to given specification		01	D+-31,08,2023
	Detailed estimate of drainage siphon to given specification.	SEPTE MBER	02	Dt - 07,08,2023 Dt - 19,08,2023
1	Estimate of Roads:			2. 1/100/2002
	3.1 Detailed estimate of a water bound macadam road		02	Dt - 21,08,2023 Dt - 38,08,2023
3	3.2 Detailed estimate of a flexible pavement in cutting ! filling.	OCTO BER	01	D1 - 05,09,2023
	3.3 Detailed estimate of septic tank and soak pit for 50 users		9)	Dt -12,09,2023

SI. 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
	Estimate of Tube well, Piles and Pile Cap, Isolated and Combined Footings:			
	4.1 Detailed estimate of Tube wells.	NOVE	01	D+-02,11,2023
4	4.2 Detailed estimate of Piles and Pile cap.		01	Dt -09,11,2023
	4.3 Detailed estimate of Isolated footings.		02	D+-16,11,2023 D+-23,11,2023
	4.4 Detailed estimate of Combined footing.	DECE MBER	02	Dt-07,12,2023

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PRACTICAL LESSON PLAN FOR THE SESSION 2023 - 24

BRANCH:-CIVIL ENGG.

SEMESTER: 5TH

SECTION:- C1

NAME OF THE FACULTY : (1) ER. BABITA SAHU (H.O.D. IN CIVIL ENGG.,), (2) ER. SWARNAPRAVA PARIDA, (3) ER. SUMANTA KUMAR SAHOO (LECT. IN CIVIL ENGG.), (4) ER. SATYAJIT BEHERA (T.A., CIVIL ENGG.)

SEMESTER FROM DT. 01.08.2023 TO 09.12.2023

PRACTICAL SUBJECT: PROJECT WORK (PHASE-I) (PR - 3)

CLA	SS ALLOTTED /WEEK:- 03 PERIODS			The state (in the state of the
SI. 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	Selection of project assignment	104UST	04	Dt-02,08,2023, Dt-04,08,2023 Dt-09,08,2023, Dt-11,08,2023
02	Planning and execution of Consideration		04	Dt - 16,08,2023, Dt - 18,08, 2023 Dt - 23,08,2023 Dt - 25,08, 2023
03	1 20 1 30 1	SEPTEMBER	04	Dt-01,09,2023, Dt-08,09,2025 Dt-15,09,2023, Dt-15-09,2023
04	Providing solution of the problems or	OLTBBER	04	Dt - 22,09,2023 Dt -27,09,2023 Dt - 04,10,2025 Dt - 06,10,2023
_	Sense of neepeninhility		04	Dt - 11,10,2023, Dt -13,192023 Dt - 18,10,2023, Dt -20,10,2023
06	dely engreesion/communication/	HOVEMBER	03	Dt - 01, 11, 2025 Dt - 03, 11, 2023 Dt - 08, 11, 2023 Dt - 10, 11, 2023
07	Interpersonal skills / human relatings		03	D+-15,11,2023 , D+-17,11,2023 D+-22,11,2023
08	Report writing skills		02	Dt - 24,11,2023 Dt - 29,11,2023
09	Viva valu	DECEMBER	03	DI - 01,12,2025, DI -06,12,2023

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Dt - 08, 19, 2023

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PRACTICAL LESSON PLAN FOR THE SESSION 2023 - 24 BRANCH:-CIVIL ENGG. SEMESTER: 5TH SECTION:- C1 NAME OF THE FACULTY : (1) ER. BABITA SAHU (HO.D. IN CIVIL ENGG.), (2) ER. PRITAM SAGAR SAHOO (LECT. IN CIVIL ENGG.) SEMESTER FROM DT. 01.08.2023 TO 09.12.2023 PRACTICAL SUBJECT: STUDENT CENTRED ACTIVITIES CLASS ALLOTTED /WEEK :- 03 PERIODS NAME OF THE PRACTICAL EXPERIMENT/JOBS MONTH AS PER ACADEMIC CALENDAR & **ACTUAL PROGRESS OF THE COURSES** No. TO BE COVERED TIME TABLE MADE DATES **CLASS DAYS** Dt - 05,08,2023, Dt-12,08,2023 04 Dt-19,08,2023, Dt-26,08,2023 02 Ceminarkon different Technical D+ - 02,09,2023, D+-09,09,2023 04 Dt-16,09,2023, Dt-23,09,2093 03 Geninar on different Environment issue Dt-30,09, 2025 03 Dt - 07,10,2023, Dt-19,10,2023

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Personality development class cultural Activities

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Dt-04,11,2023, Dt-11,11,2023

Dt-18,11,2023, Dt-25,11,2023

Df-02,12,2023,Df-09,12,2023

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CHHENDIPADA, ANGUL

PRACTICAL LESSON PLAN FOR THE SESSION 2023 - 2024

BRANCH:-CIVIL ENGG.

SEMESTER: 5TH

SECTION:-

C2

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

SEMESTER FROM DT. 01.08.2023 TO 09.12.2023

PRACTICAL SUBJECT: CIVIL ENGINEERING LAB.-II (PR-1)

CLASS ALLOTTED /WEEK:- 06 PERIODS

il. o.	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
	TESTS ON SOIL:			DATES
	Determination of specific gravity of soil by pycnometer/ Density bottle.	AUGUST	01	DH - 01/08/2023
	Determination of field Density of soil by core cutter method.		01	D+ - 03/08/2023
	Determination of particle size gradation of sand/Gravel by sieve analysis.		0)	Dt - 08 108, 2023
	1.4 Wet Mechanical using pippette Method for clay and silt.		0)	Dt-10,08,2023
	Determination of liquid limit by soil by casagrande's apparatus.		Ø1	Dt-17,08,2023
	1.6 Determination of plastic limit of soil.		0)	Dt - 22,08,2023
	1.7 Determination of shrinkage limit of soil.		0)	DT - 24,08,2023
	Determination of MDD & OMC of soil by using modified proctor test.		0)	D+-29,08,2023
	1.12 Determination of CBR value using laboratory CBR testing device.		01	Dt-30,08,2023

SI.	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
	1.10 Determination of C and Φ of soil sample by triaxial test device.	SEPT	02	DH - 05, 09, 2023 DH - 07, 09, 2023
	Determination of coefficient of permeability of coarse grained soils under constant head method.		02	Dt - 12,09,2023
	HYDRAULICS LABORATORY:			DI 1110/14093
	2.1 Verification of Bernoulli's Theorem		01	Dt - 21,09, 2023
2	2.2 Determination of coefficient of Discharge of a rectangular notch fitted in open Channel.		o _a	Dt -26,09,2023, Dt-28,09,23
	2.3 Determination of coefficient of Discharge of a Venturimeter, Orificemeter fitted in a pipe	OCT	02	D+ 04,10,2023 D+ -10,10,2023
	2.4 Determination of head Loss due to friction and coefficient of friction for flow through pipe.		0)	Dt-18,10,2023
	TRANSPORTATION LABORATORY:		, , , , , , , , , , , , , , , , , , ,	
	3.1 Penetration test of bitumen.		01	Dt - 17,10,2023
3	3.2 Ductility test of bitumen.		0)	Dt -19,10,2023
	3.3 Viscosity test of bitumen.		01	Dt-31,10,2023
	3.4 Determination of bitumen content by centri fuge extractor.	Non	02	Dt - 02,11,2023 Dt - 07,11,2023

).).	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
	PUBLIC HEALTH ENGINEERING LABORATORY:			
	4.1 Determination of turbidity of water sample using turbidimeter/Nephlometer/Jackson's candle turbidimeter.		0)	Dt - 09,11,4023
	Determination of PH of water sample using (a) PH meter (b) colour computer		02	D+-14,11,2023 D+-211,2023
	4.3 Determination of chlorid conent of a water sample using method of titration.		02	Dt - 28,11,2023 Dt - 28,11,2023
	4.4 Determination of coagulant (Alum) dose requirment for a turbid water sample by jar test.		0)	D+-30,11,2023
	4.5 Determination of dissolved oxygen of water sample.	Dec	01	Dt - 05,12,2023
	4.6 Determination of bacteriological quality of water sample by coliform test.		<i>a)</i>	0+ - 07,12,2023

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	P.	C.I.E.T., CI	HENDIPADA, DIST- ANGUL	
	PRACTIC		N PLAN FOR THE SESSION 2023 - 24	
	ANCH:-CIVIL ENGG.		STER: 5TH	SECTION:- C2
NAM	ME OF THE FACULTY : (1) ER. SUNIL KUMAR SAHU,	, (2) ER. PR	ITAM SAGAR SAHOO (LECT. IN CIVII	L ENGG.)
SEN	MESTER FROM DT. 01.08.2023 TO 09.12.2023			IMATING PRACTICE – II (PR-2)
_	AS3 ALLOTTED /WEEK:- 03 PERIODS			
SI. 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
	Estimate of Culverts and Bridges:			
1	Detailed estimate of a RCC slab culvert with right angled wing walls with bar bending schedule.	fugust	02	Dt-07,08,2023 Dt-14,08,2023
	detailed estimate of RCC Hume pipe culvert with solayed angled wing wall		02	Dt-28,08,2023
	Estimate of Irrigation Structures:			
2	21 Detailed estimate of simple type of vertical fall to given specification	SEPTE MBER	02	D+ - 04, 09,2023 D+ -11, 09,2023
	2.2 Detailed estimate of drainage siphon to given specification.		02	Dt - 18,09,2023 Dt - 25,09,2023
	Estimate of Roads:			21 9370/12023
	3 1 Detailed estimate of a water bound macadam	OLTO BER	01	D+-09,10,2023
3	3 2 Detailed estimate of a flexible pavement in cutting		01	Dt - 16,10,2023
	3 3 Detailed estimate of septic tank and soak pit for 50 users		-01	D+-30.10,2023

SI. 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
	Estimate of Tube well, Piles and Pile Cap, Isolated and Combined Footings:			
	4.1 Detailed estimate of Tube wells.	NOVE	01	Dt - 06,11,2023
4	4.2 Detailed estimate of Piles and Pile cap.		01	Dt - 13,11,2025
	4.3 Detailed estimate of Isolated footings.		01	Dt - 20,11, 2023
	4.4 Detailed estimate of Combined footing.	DECE_ MBER	0)	Dt - 04,12,2023

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Puma Chandra Institute of Engineering & Technology CHHENDIPADA, ANGUL

PRACTICAL LESSON PLAN FOR THE SESSION 2023 - 24

BRANCH:-CIVIL ENGG.

SEMESTER: 5TH

SECTION:- C2

NAME OF THE FACULTY: (1) ER. BABITA SAHU (H.O.D. IN CIVIL ENGG.,), (2) ER. SWARNAPRAVA PARIDA, (3) ER. SUMANTA KUMAR SAHOO (LECT. IN CIVIL ENGG.), (4) ER. SATYAJIT BEHERA (T.A., CIVIL ENGG.)

SEMESTER FROM DT. 01.08.2023 TO 09.12.2023

PRACTICAL SUBJECT: PROJECT WORK (PHASE-I) (PR - 3)

CLASS ALLOTTED /WEEK:- 03	PERIODS	
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SI. 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.	Selection of project assignment	ququst	04	Dt - 09,08,2023, Dt - 04,08,2025 Dt - 09,08,2023 Dt - 11,08,2025	
2	Planning and execution of Coninclexations	\$	04	Dt - 16,08,2023 Dt -18,08,2023 Dt - 23,08,2023 Dt -25,08,2023	
3	Quality of pereforemance	SEPTEMBER	03	D+-01,09,2023 D+-08,09,2023 D+-13,09,2025	
4	Providing solution of the proflems on production of Final product		03	Dt-15,09,2023, Dt-22,0912025	
5		OCTOBER	04	Dt - 04, 10, 2025 Dt - 06, 10, 2028 Dt - 11, 10, 2025 Dt - 13, 10, 2023	
6	Self expression/communication/ Presentation skills	NOVEMBER	04	Dt-18,10,2023, Dt-20,10,2023 Dt-01,11,2023, Dt-03,11,2223	
7	Interpersonal skills/humanrulations		04	Dt - 08,11,2023 Dt -10,11,2025 Dt - 15,11,2025 Dt -17,11,2023	
8	Report writing skills		04	Dt - 22, 11, 2023 Dt - 24, 11, 2023 Dt - 29, 11, 2023	
9	Viva voice	DECEMBER	03	Dt - 01,12,2023 Dt - 06,12.2023 Dt - 08,12,2023	

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	PRACTIC	CAL LESSO	N PLAN FOR THE SESSION 2023 - 24		
BRANCH:- CIVIL ENGG.			EMESTER: 5TH	SECTION: C2	
NAN	IE OF THE FACULTY : (1) ER. BABITA SAHU (HO.D	. IN CIVIL E	NGG.), (2) ER. PRITAM SAGAR SAHO	O (LECT. IN CIVIL ENG	i.)
SEM	ESTER FROM DT. 01.08.2023 TO 09.12.2023		PRACTICAL SUBJECT: S		
CLA	SS ALLOTTED /WEEK :- 03 PERIODS				
SI. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS MADE	OF THE COURSES DATES
01	Library Study & Technical Duiz	gugust	04	Dt - 05,08,2023 Dt - 19,08,2023	10 10 (DATE) 54-5
02	Jeninar on different Technical Tapics	SEPTEMBER	04	M-02,09,2023 D1-16,09,2023	Dt -09.09.2023 Dt - 23,09.2023
03	Jenissan en different Environment issues	0410868	03	Dt-30,09,2023 Dt-07,10,2023	,D+-14,10,2023
04	Percenality development class	NOVEMBER .	04	D+-04,11,2023, D+-18,11,2023	The second second second
05	Cultural Activities	DECEMBER	02	Dt -02,12,2023	, Dt -09,12,2025

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