

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

**THEORY LESSON PLAN FOR THE SESSION 2022 - 23**

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

**NAME OF THE FACULTY : ANUPAMA BEHERA  
(LECT. IN MGMT.)**

**SEMESTER FROM DT. 15.09.2022 TO 21.01.2023**

**THEORY SUBJECT : ENTREPRENEURSHIP AND MANAGEMENT & SMART TECHNOLOGY (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
	<b>UNIT - 1 : Entrepreneurship</b>	<b>10</b>		
	Concept /Meaning of Entrepreneurship and Need of Entrepreneurship	1	SEPTEMBER	Dt. 16.09.2022
	Characteristics, Qualities and Types of entrepreneur, Functions	1		Dt. 19.09.2022
	Barriers in entrepreneurship	1		Dt. 20.09.2022
	Entrepreneurs vrs. Manager	1		Dt. 21.09.2022
1	Forms of Business Ownership: Sole proprietorship, partnership forms and others	1		Dt. 23.09.2022, Dt. 26.09.2022
	Types of Industries, Concept of Start-ups	1		Dt. 27.09.2022
	Entrepreneurial support agencies at National, State, District Level( Sources): DIC, NSIC,OSIC, SIDBI, NABARD, Commercial Banks, KVIC etc.	2		Dt. 28.09.2022, Dt. 30.09.2022
	Technology Business Incubators (TBI) and Science and Technology Entrepreneur Parks	2	OCTOBER	Dt. 10.10.2022, Dt. 11.10.2022
	<b>UNIT - 2 : Market Survey and Opportunity Identification (Business Planning)</b>	<b>8</b>		
	Business Planning	2		Dt. 12.10.2022, Dt. 14.10.2022
2	SSI, Ancillary Units, Tiny Units, Service sector Units	1		Dt. 17.10.2022
	Time schedule Plan, Agencies to be contacted for Project Implementation	1		Dt. 18.10.2022
	Assessment of Demand and supply and Potential areas of Growth	1		Dt. 19.10.2022

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	Assessment of Demand and supply and Potential areas of Growth	1		Dt. 21.10.2022, Dt. 26.10.2022
	Identifying Business Opportunity	1		Dt. 28.10.2022
	Final Product selection	1		Dt. 31.10.2022
	<b>UNIT - 3 : Project report Preparation</b>	<b>4</b>		
3	Preliminary project report	1	NOVEMBER	Dt. 01.11.2022
	Detailed project report, Techno economic Feasibility	2		Dt. 02.11.2022
	Project Viability	1		Dt. 04.11.2022
	<b>UNIT - 4 : Management Principles</b>	<b>5</b>		D
4	Definitions of management and Principles of management	1		Dt. 07.11.2022
	Functions of management (planning, organising, staffing, directing and controlling etc.)	2		Dt. 09.11.2022, Dt. 11.11.2022
	Level of Management in an Organisation	2		Dt. 14.11.2022, Dt. 15.11.2022
	<b>UNIT - 5 : Functional Areas of Management</b>	<b>10</b>		
5	a) Production management: Functions, Activities, Productivity, Quality control, Production Planning and control	2		Dt. 16.11.2022, Dt. 18.11.2022
	b) Inventory Management: Need for Inventory management, Models/Techniques of Inventory management	1		Dt. 21.11.2022, Dt. 22.11.2022
	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. 23.11.2022, Dt. 25.11.2022 Dt, 28, 11. 2022



Sl. 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		Dt. 29.11.2022 , Dt. 30.11.2022
	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	DECEMBER	Dt. 02.12.2022 , Dt. 05.12.2022 Dt. 06.12.2022
6	<b>UNIT - 6 : Leadership and Motivation</b>	6		
	a) Leadership: Definition and Need/Importance, Qualities and functions of a leader, Manager Vs Leader, Style of Leadership (Autocratic, Democratic, Participative)	2		Dt. 07.12.2022 , Dt. 09.12.2022
	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		Dt. 12.12.2022, Dt. 13.12, 2022, Dt. 14.12, 2022 , Dt. 16.12.2022
	<b>UNIT - 7 : Work Culture, TQM &amp; Safety</b>	5		
	Human relationship and Performance in Organization	1		Dt. 19.12.2022
	Relations with Peers, Superiors and Subordinates	1		Dt. 20.12.2022
7	TQM concepts: Quality Policy, Quality Management, Quality system	2		Dt. 21.12.2022 , Dt. 23.12.2022
	Accidents and Safety, Cause, preventive measures, General Safety Rules , Personal Protection Equipment(PPE)	1		Dt. 26.12.2022 , Dt. 27.12.2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
8	<b>UNIT - 8 : Legislation</b>	6		
	Intellectual Property Rights(IPR), Patents, Trademarks, Copyrights	2		Dt. 28.12.2022 , Dt. 30.12.2022
	Features of Factories Act 1948 with Amendment (only salient points)	2	JANUARY	Dt. 02.01.2023, Dt. 03.01.2023
	Features of Payment of Wages Act 1936 (only salient points)	2		Dt. 04.01.2023, Dt. 06.01.2023
9	<b>UNIT - 9 : Smart Technology</b>	6		
	Concept of IOT, How IOT works	1		Dt. 09.01.2023 ,Dt. 10.01.2023
	Components of IOT, Characteristics of IOT, Categories of IOT	2		Dt. 11.01.2023 , Dt. 13.01.2023
	Applications of IOT- Smart Cities, Smart Transportation, Smart Home, Smart Healthcare, Smart Industry, Smart Agriculture, Smart Energy Management etc.	3		Dt. 16.01.2023, Dt. 17.01.2023 Dt. 18.01.2023 , Dt 20.01.2023

*Anupama Behera*

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*P. S. Kumar*

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THEORY LESSON PLAN FOR THE SESSION 2022 - 23

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

NAME OF THE FACULTY : (1) ER. NANDINI PRADHAN,  
(2) ER. SUJATA DALEI (LECT. IN CIVIL ENGG.)

SEMESTER FROM DT. 15.09.2022 TO 21.01.2023

THEORY SUBJECT : STRUCTURAL DESIGN - II (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	<b>UNIT-1: Introduction</b>	6		
	Common steel structures, Advantages & disadvantages of steel structures	1	SEPTEMBER	Dt. 15.09.2022
	Types of steel, properties of structural steel	1		Dt. 16.09.2022
	Rolled steel sections, special considerations in steel design	1		Dt. 19.09.2022
	Loads and load combinations.	1		Dt. 20.09.2022
	Structural analysis and design philosophy	1		Dt. 22.09.2022
	Brief review of Principles of Limit State design	1		Dt. 23.09.2022
2	<b>UNIT-2 : Structural Steel Fasteners and Connections.</b>	10		
	Bolted Connections Classification of bolts, advantages and disadvantages of bolted connections	1		Dt. 26.09.2022
	Different terminology, spacing and edge distance of bolt holes.	1		Dt. 27.09.2022
	Types of bolted connections.	1		Dt. 29.09.2022
	Types of action of fasteners, assumptions and principles of design.	1		Dt. 30.09.2022
Strength of plates in a joint, strength of bearing type bolts (shear capacity & bearing capacity), reduction factors, and shear capacity of HSFG bolts.	1	OCTOBER	Dt. 10.10.2022, Dt. 11.10.2022	

Sl. 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. 13.10.2022, Dt. 14.10.2022
	Welded Connections	1		Dt. 17.10.2022
	Advantages and Disadvantages of welded connection	1		Dt. 18.10.2022
	Types of welded joints and specifications for welding,	1		Dt. 20.10.2022
	Design stresses in welds, Strength of welded joints.	1		Dt. 21.10.2022
	<b>UNIT - 3 : Design of Steel tension Members</b>	<b>10</b>		
	Common shapes of tension members	1		Dt. 27.10.2022
	Types of failure of tension members	1		Dt. 28.10.2022
	Design strength of a tension member (i) due to yielding of gross section	1		Dt. 31.10.2022
	Design strength of a tension member (ii) due to rupture of critical section	1	NOVEMBER	Dt. 01.11.2022
3	Design strength of a tension member (ii) due to block shear of bolted connection	1		Dt. 03.11.2022, Dt. 04.11.2022
	Design strength of a tension member (ii) due to block shear of welded connection	1		Dt. 07.11.2022
	Problems based on design strength of tension member	1		Dt. 10.11.2022
	Concepts of shear lag	1		Dt. 11.11.2022
	Maximum values of effective slenderness ratio.	1		Dt. 14.11.2022
	Revision	1		Dt. 15.11.2022
	<b>UNIT - 4 : Design of Steel Compression Members</b>	<b>10</b>		
4	Common shapes of compression members	1		Dt. 17.11.2022
	Buckling class of cross sections	1		Dt. 18.11.2022



Sl. 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. 21.11.2022
	Design compressive stress and strength of compression members.	1		Dt. 22.11.2022, Dt. 24.11.2022
	Design compressive stress for columns	1		Dt. 25.11.2022
	Problems based on design compressive stress for columns	1		Dt. 28.11.2022
	Problems based on compressive stress and strength of compression members.	1		Dt. 29.11.2022
	Analysis and Design of compression members (axial load only).	1	DECEMBER	Dt. 01.12, 2022
	Problems regarding Design of compression members	1		Dt. 02, 12, 2022
	Revision	1		Dt. 05, 12, 2022
	<b>UNIT - 5 : Design of Steel Beams</b>	<b>10</b>		Dt. 06.12.2022
	Common cross sections and their classification	1		Dt. 08.12.2022
	Deflection limits as per IS Code	1		Dt. 09.12.2022
	Discussion on Web Buckling	1		Dt. 12.12.2022
	Discussion on Web crippling	1		Dt. 13.12.2022
5	Design of laterally supported beams against bending	1		Dt-15, 12, 2022, Dt. 16.12.2022
	Problems based on design of laterally supported beams against bending	1		Dt. 19.12.2022
	Design of laterally supported beams against shear	1		Dt. 20.12.2022
	Problems based on design of laterally supported beams against shear	1		Dt. 22.12, 2022
	Problems discussion	1		Dt. 23.12.2022
	Class Test - I	1		Dt. 26.12.2022

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6	<b>UNIT - 6 : Design of Tubular Steel Structures</b>	6		
	Round Tubular Sections	1		Dt. 27.12.2022
	Permissible Stresses	1		Dt. 29.12.2022
	Tubular Compression members	1		Dt. 30.12.2022
	Tubular Tension members	1	JANUARY	Dt. 02.01.2023
	Joints in Tubular trusses	1		Dt. 03.01.2023
	Revision	1		Dt. 05.01.2023
7	<b>UNIT- 7 : Design of Masonry Structures</b>	9		
	Introduction to masonry structures	1		Dt 06.01.2023
	Design considerations for Masonry walls	1		Dt. 09.01.2023
	Design considerations for columns	1		Dt. 10.01.2023
	Problems based on design considerations for masonry walls & columns	1		Dt. 12.01.2023
	Load Bearing & Non-Load Bearing walls	1		Dt. 13.01.2023
	Permissible stresses	1		Dt. 16.01.2023
	Slenderness Ratio	1		Dt. 17.01.2023
	Effective Length, Height & Thickness.	1		Dt. 19.01.2023
	Revision	1		Dt. 20.01.2023

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**THEORY LESSON PLAN FOR THE SESSION 2022 - 23**

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

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

**SEMESTER FROM DT. 15.09.2022 TO 21.01.2023**

**THEORY SUBJECT : RAILWAY & BRIDGE ENGINEERING (TH-3)**

**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	<b>UNIT - 1 : Introduction</b>	<b>2</b>		
	Railway terminology, Advantages of railways	1	SEPTEMBER	Dt. 15.09.2022
	Classification of Indian Railways	1		Dt. 19.09.2022
2	<b>UNIT - 2 : Permanent Way</b>	<b>5</b>		
	Definition of permanent way	1		Dt. 20.09.2022
	Components of a permanent way	1		Dt. 21.09.2022
	Concept of gauge	1		Dt. 22.09.2022
	Different gauges prevalent in India	1		Dt. 26.09.2022
	Suitability of the gauges under different conditions	1		Dt. 27.09.2022
3	<b>UNIT -3 : Track Materials</b>	<b>10</b>		
	Introduction to Rails	1		Dt. 28.09.2022
	Functions of Rails, requirement of an ideal joint	1		Dt. 29.09.2022
	Types of rail sections, length of rails	1	OCTOBER	Dt. 10.10.2022
	Rail joints – types, requirement of an ideal joint	1		Dt. 11.10.2022
	Purpose of welding of rails & its advantages. Creep- definition, cause & prevention	1		Dt. 12.10.2022, Dt. 13.10.2022
	Definition, function & requirements of sleepers	1		Dt. 17.10.2022

Sl. 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. 18.10.2022
	Functions & requirements of ballast. Materials for ballast	1		Dt. 19.10.2022
	Fixtures for Broad gauge. Connection of rails to rail-fishplate, fish bolts	1		Dt. 20.10.2022,
	Connection of rails to sleepers	1		Dt. 26.10.2022
	<b>UNIT - 4 : Geometric for Broad Gauge</b>	<b>10</b>		
	Typical cross – sections of single & double broad gauge railway track in cutting	1		Dt. 27.10.2022
	Typical cross – sections of single & double broad gauge railway track in embankment	1		Dt. 31.10.2022
	Permanent & temporary land width	1	NOVEMBER	Dt. 01.11.2022
	Gradients for drainage	1		Dt. 02.11.2022
4	Numerical problems based on Gradients	1		Dt. 03.11.2022
	Introduction on Super elevation	1		Dt. 07.11.2022
	Necessity of Superelevation	1		Dt. 09.11.2022
	Locations of Superelevations	1		Dt. 10.11.2022
	Revision	1		Dt. 14.11.2022
	Class Test -I	1		Dt. 15.11.2022
	<b>UNIT - 5 : Points and Crossings</b>	<b>4</b>		
	Definition of Points & its necessity	1		Dt. 16.11.2022
5	Types of points with diagrams	1		Dt. 17.11.2022
	Definition of Crossings & its necessity	1		Dt. 21.11.2022
	Types of crossings with diagrams	1		Dt. 22.11.2022, Dt 23.11.2022



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6	<b>UNIT - 6 : Laying &amp; Maintenance of Track</b>	4		
	Methods of Laying	1		Dt. 24.11.2022
	Maintenance of track	1		Dt. 28.11.2022
	Duties of a permanent way inspector	1		Dt. 29.11.2022
	Revision	1		Dt. 30.11.2022
7	<b>UNIT - 7 : Introduction to Bridges</b>	2		
	Definitions & Components of a bridge	1	DECEMBER	Dt. 01.12.2022
	Classification of bridges , Requirements of an ideal bridge	1		Dt. 05.12.2022 , Dt. 06.12.2022
8	<b>UNIT - 8 : Bridge Site Investigation, Hydrology &amp; Planning</b>	5		
	Selection of bridge site, Alignment,	1		Dt 07.12.2022
	Determination of Flood Discharge	1		Dt. 08.12.2022
	Waterway & economic span	1		Dt. 12.12.2022
	Afflux, clearance & free board	1		Dt. 13.12.2022
	Revision	1		Dt. 14.12.2022
9	<b>UNIT - 9 : Bridge Foundation</b>	8		
	Scour depth minimum depth of foundation	1		Dt. 15.12.2022
	Types of bridge foundations i.e. spread foundation	1		Dt. 19.12.2022, Dt. 20.12.2022
	Pile foundation	1		Dt. 21.12.2022
	Caission foundation	1		Dt. 22.12.2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	Raft foundation	1		Dt. 26.12.2022, Dt. 27.12.2022
	Open well foundations	1		Dt. 28.12.2022
	Coffer dams	1		Dt. 29.12.2022
	Revision	1	JANUARY	Dt. 02.01.2023
	<b>UNIT - 10 : Bridge Substructure and Approaches</b>	<b>5</b>		
10	Types of piers	1		Dt. 03.01.2023
	Types of abutments	1		Dt. 04.01.2023, Dt. 05.01.2023
	Types of wing walls	1		Dt. 09.01.2023
	Approaches	1		Dt. 10.01.2023
	Revision	1		Dt. 11.01.2023
		<b>UNIT - 11 : Culvert &amp; Cause ways</b>	<b>5</b>	
11	Introduction to Culverts	1		Dt. 12.01.2023
	Types of culvers – brief description	1		Dt. 16.01.2023
	Introduction to Cause ways.	1		Dt. 17.01.2023
	Types of causeways – brief description	1		Dt. 18.01.2023
	Revision	1		Dt. 19.01.2023

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THEORY LESSON PLAN FOR THE SESSION 2022 - 23

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. 15.09.2022 TO 21.01.2023

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

CLASS ALLOTTED / WEEK: 05 PERIODS

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
1	SECTION A : WATER SUPPLY			
	UNIT - 1 : Introduction to Water Supply, Quantity and Quality of water	10	SEPTEMBER	Dt. 15.09.2022
	Necessity of treated water supply	1		Dt. 15.09.2022
	Per capita demand, variation in water demand	1		Dt. 16.09.2022
	Factors affecting per capita water demand	1		Dt. 19.09.2022
	Methods of forecasting population, Numerical problems using different methods	1		Dt. 20.09.2022, Dt. 21.09.2022
	Impurities in water – organic and inorganic	1		Dt. 22.09.2022
	Harmful effects of impurities	1		Dt. 23.09.2022
	Analysis of water – physical, chemical and bacteriological	1		Dt. 26.09.2022
	Water quality standards for different uses	1		Dt. 27.09.2022, Dt. 28.09.2022
	Numerical problems using different methods of forecasting population	1		Dt. 29.09.2022
Revision	1		Dt. 30.09.2022	

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
2	<b>UNIT - 2 : Sources and Conveyance of Water</b>	8		
	Underground sources – aquifer type & occurrence – Infiltration gallery, infiltration well, springs, well	1	OCTOBER	Dt. 10.10.2022 Dt. 11.10.2022
	Yield from well- methods of determination, Numerical problems using yield formulae	1		Dt. 12.10.2022
	Intakes – types, description of river intake, reservoir intake, canal intake	1		Dt. 13.10.2022
	Pumps for conveyance & distribution – types, selection, installation.	1		Dt. 14.10.2022
	Pipe materials – necessity, suitability, merits & demerits of each type	1		Dt. 17.10.2022
	Pipe joints – necessity, types of joints, suitability, methods of jointing	1		Dt. 18.10.2022
	Laying of pipes – method	1		Dt. 19.10.2022
3	<b>UNIT - 3 : Treatment of Water</b>	12		
	Introduction to treatment of water, Flow diagram of conventional water treatment system	1		Dt. 20.10.2022, Dt. 21.10.2022
	Plain Sedimentation : Necessity, working principles	1		Dt. 26.10.2022, Dt. 27.10.2022
	Sedimentation tanks – types, essential features	1		Dt. 28.10.2022
	Operation & maintenance of sedimentation tank	1		Dt. 31.10.2022
	Sedimentation with coagulation: Necessity, principles of coagulation	1	NOVEMBER	Dt. 01.11.2022
	Types of coagulants, Flash Mixer, Flocculator, Clarifier	1		Dt. 02.11.2022



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	Filtration : Necessity, principles, types of filters	1		Dt. 03. 11. 2022
	Slow Sand Filter, Rapid Sand Filter and Pressure Filter – essential features	1		Dt. 04. 11. 2022
	Disinfection : Necessity, methods of disinfection	1		Dt. 07. 11. 2022
	Chlorination – free and combined chlorine demand, available chlorine,	1		Dt. 08. 11. 2022
	Residual chlorine, pre-chlorination, break point chlorination, super chlorination	1		Dt. 09. 11. 2022
	Softening of water – Necessity, Methods of softening – Lime soda process and Ion exchange method	1		Dt. 10. 11. 2022 , Dt. 11. 11. 2022
	<b>UNIT - 4 : Distribution System And Appurtenance in Distribution System:</b>	<b>8</b>		
	General requirements, types of distribution system-gravity	1		Dt. 14. 11. 2022
	Distribution system- direct and combined system	1		Dt. 15. 11. 2022
	Methods of supply – intermittent and continuous	1		Dt. 16. 11. 2022
	Distribution system layout	1		Dt. 17. 11. 2022
4	Types of distribution system, comparison between the various types of distribution system	1		Dt. 18. 11. 2022
	Valves - types of valves, features of different types of valves	1		Dt. 21. 11. 2022
	Uses of valves, purpose-slucice valves, check valves, air valves	1		Dt. 22. 11. 2022
	Scour valves, Fire hydrants, Water meters	1		Dt. 23. 11. 2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
5	<b>UNIT - 5 : W/s Plumbing in Building</b>	2		
	Method of connection from water mains to building supply	1		Dt. 24.11.2022
	General layout of plumbing arrangement for water supply in single storied and multi-storied building as per I.S. code.	1		Dt. 25.11.2022
6	<b>SECTION B: WASTE WATER ENGINEERING</b>			
	<b>UNIT - 6 : Introduction</b>	5		
	Aims and objectives of sanitary engineering	1		Dt. 28.11.2022, Dt. 29.11.2022
	Definition of terms related to sanitary engineering	1		Dt. 30.11.2022
	Systems of collection of wastes– Conservancy and Water Carriage System	1	DECEMBER	Dt. 01.12.2022, Dt. 02.12.2022
	Features, comparison, suitability of Conservancy System	1		Dt. 05.12.2022,
	Features, comparison, suitability of Water Carriage System	1		Dt. 06.12.2022
7	<b>UNIT - 7 : Quantity and Quality of Sewage</b>	7		
	Quantity of sanitary sewage – domestic & industrial sewage	1		Dt. 07.12.2022, Dt. 08.12.2022
	Variation in sewage flow, numerical problem on computation quantity of sanitary sewage	1		Dt. 09.12.2022
	Computation of size of sewer, application of Chazy's formula	1		Dt. 12.12.2022
	Limiting velocities of flow : self-cleaning and scouring	1		Dt. 13.12.2022
	General importance, strength of sewage, Characteristics of sewage-physical, chemical & biological	1		Dt. 14.12.2022



Sl. 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. 15.12.2022
	Tests for pH, dissolved oxygen, BOD, COD	1		Dt. 16.12.2022
8	<b>UNIT - 8 : Sewerage System</b>	<b>5</b>		
	Types of system-separate, combined, partially separate , features	1		Dt. 19.12.2022, Dt. 20.12.2022
	Comparison between the types, suitability	1		Dt. 21.12.2022
	Shapes of sewer – rectangular, circular	1		Dt. 22.12.2022
	Features, suitability of shapes of sewer	1		Dt. 23.12.2022
	Laying of sewer-setting out sewer alignment	1		Dt. 26.12.2022
9	<b>UNIT - 9 : Sewer Appurtenances and Sewage Disposal</b>	<b>7</b>		
	Manholes and Lamp holes – types, features, location, function	1		Dt. 27.12.2022
	Inlets, Grease & oil trap – features, location, function	1		Dt. 28.12.2022
	Storm regulator, inverted siphon – features, location, function	1		Dt. 29.12.2022
	Disposal on land – sewage farming, sewage application and dosing	1		Dt. 30.12.2022
	Sewage sickness-causes and remedies	1	JANUARY	Dt. 02.01.2023
	Disposal by dilution – standards for disposal in different types of water bodies	1		Dt. 03.01.2023
	Self purification of stream	1		Dt. 04.01.2023

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
10	<b>UNIT -10 : Sewage Treatment</b>	8		
	Introduction to sewage treatment	1		Dt. 05.01.2023
	Principles of treatment	1		Dt. 06.01.2023
	Flow diagram of conventional treatment	1		Dt. 09.01.2023
	Primary treatment & its necessity	1		Dt. 10.01.2023
	Principles, essential features of primary treatment	1		Dt. 11.01.2023
	Functions of primary treatment	1		Dt. 12.01.2023 , Dt. 13.01.2023
	Secondary treatment & its necessity and principles	1		Dt. 16.01.2023, Dt. 17.01.2023
	Essential features & functions of secondary treatment	1		Dt. 17.01.2023
11	<b>UNIT - 11 : Sanitary Plumbing for Building</b>	3		
	Requirements of building drainage, layout of lavatory blocks in residential buildings, layout of building drainage	1		Dt. 18.01.2023
	Plumbing arrangement of single storied & multi storied building as per I.S. code practice	1		Dt. 19.01.2023
	Sanitary fixtures – features, function, and maintenance and fixing of the fixtures – water closets, flushing cisterns, urinals, inspection chambers, traps, anti syphonage pipe	1		Dt. 20.01.2023

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**THEORY LESSON PLAN FOR THE SESSION 2022 - 23**

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

**NAME OF THE FACULTY : (1) ER. JIBAN JYOTI ROUT,  
(2) ER. PRITAM SAGAR SAHOO (LECT. IN CIVIL ENGG.)**

**SEMESTER FROM DT. 15.09.2022 TO 21.01.2023**

**THEORY SUBJECT : ESTIMATING & COST EVALUATION - II (TH-5)**

**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
	<b>UNIT-1: Detailed Estimate of Culverts and Bridges</b>	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	SEPTEMBER	Dt. 15.09.2022 , Dt. 16.09.2022
	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. 17.09.2022 , Dt. 21.09.2022
	Calculation of quantity of RCC work & reinforcement, Calculation of quantity of cement concrete wearing coat & cement pointing	1		Dt. 22.09.2022
1	Detailed study of plan & sectional elevation of hume pipe culvert with right angled wing wall	1		Dt. 23.09.2022
	Calculation of quantity of E/W in excavation and cement concrete work in foundation of hume pipe culvert	1		Dt. 24.09.2022
	Calculation of quantity of brickwork in cement mortar of hume pipe culvert	1		Dt. 28.09.2022
	Calculation of quantity of cement pointing and length of hume pipe for hume pipe culvert	1		Dt. 29.09.2022
	Process of calculation to estimate earthwork, concrete work & masonry work of abutment of a splayed culvert	1		Dt. 30.09.2022

Sl. No.	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	OCTOBER	Dt. 01.10.2022
	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. 12.10.2022, Dt. 13.10.2022
	Calculation of quantity of E/W in excavation and cement concrete work in foundation of slab culvert with splayed wing wall	1		Dt. 14.10.2022
	Calculation of quantity of E/W in excavation and cement concrete work in foundation of slab culvert with splayed wing wall	1		Dt. 15.10.2022
	<b>UNIT- 2 : Estimate of Irrigation Structures</b>	<b>14</b>		
	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		Dt. 19.10.2022, Dt. 20.10.2022
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		Dt. 21.10.2022
	Calculation of quantity of brickwork in 1:4 cement mortar of vertical fall, Calculation of quantity of brick on edge flooring & brick pitching	1		Dt. 22.10.2022
	Calculation of quantity of cement pointing in 1:3 cement mortar, Study of plan & sectional elevation of a vertical fall	1		Dt. 26.10.2022



Sl. No.	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. 27.10.2022
	Calculation of quantity of brickwork in 1:4 cement mortar of a vertical fall.	1		Dt. 28.10.2022
	Calculation of quantity of brick on edge flooring & brick pitching of a vertical fall, cement pointing in 1:3 cement mortar	1		Dt. 29.10.2022
	Concept of cross drainage work, its types and introduction to drainage syphon, Study of plan and sectional elevation of a drainage syphon	1		Dt. 02.11.2022, Dt. 03.11.2022
	Calculation of quantity of earthwork in excavation and cement concrete work in foundation of drainage syphon	1		Dt. 04.11.2022
	Calculation of quantity of brickwork in 1:4 cement mortar of drainage syphon	1		Dt. 05.11.2022
	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. 09.11.2022, Dt. 10.11.2022
	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		Dt. 11.11.2022
	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. 12.11.2022
	Calculation of quantity of RCC work in slab, PCC work in coping & 10 cm dry brick pitching of drainage syphon	1		Dt. 16.11.2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	<b>UNIT- 3 : Detailed Estimate of Roads</b>	<b>12</b>		
	Concept of lead and lift, derivation of formula for calculation of earthwork using different methods	1		Dt.:17.11.2022, Dt.18.11.2022
	Problem discussion on calculation of earthwork using Mid-sectional Area method, Mean sectional Area Method and Prismoidal Formula	1		Dt.19.11.2022
	Calculation of earthwork of a road in banking	1		Dt. 23.11.2022, Dt. 24.11.2022
	Calculation of earthwork of a road in banking	1		Dt. 25.11.2022
	Calculation of earthwork of a road in banking and cutting	1		Dt. 26.11.2022
3	Calculation of earthwork of a road in banking and cutting	1		Dt. 30.11.2022
	Detailed estimate of a water bound macadam road	1	DECEMBER	Dt. 01.12.2022
	Detailed estimate of a water bound macadam road	1		Dt. 02.12.2022
	Detailed estimate of a national highway in cutting and banking	1		Dt.03.12.2022
	Detailed estimate of a national highway in cutting and banking	1		Dt.07.12.2022
	Revision	1		Dt.08.12.2022
	Class test	1		Dt. 09.12.2022
	<b>UNIT- 4 : Miscellaneous Estimates</b>	<b>12</b>		
	Tube well	1		Dt.10.12.2022
4	Tube well problems	1		Dt.14.12.2022
	Tube well problems	1		Dt.15.12.2022
	Piles and Pile cap	1		Dt.16.12.2022



Sl. 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		Dt. 17.12.2022
	Piles and Pile cap problems	1		Dt. 21.12.2022
	Isolated footings	1		Dt. 22.12.2022
	Isolated footings problems	1		Dt. 23.12.2022
	Isolated footings problems	1		Dt. 24.12.2022
	Combined footings.	1		Dt. 28.12.2022
	combined footings problems	1		Dt. 29.12.2022, Dt. 30.12.2022
	Combined footings problems	1		Dt. 31.12.2022
	<b>UNIT-5 : PWD Accounts works</b>	<b>10</b>		
	Classification of work & method of execution of work through the contractors, departmentally, contract and agreement,	1	JANUARY	Dt. 04.01.2023, Dt. 05.01.2023
	Work order, item rate contract, lump sum contract, labour contract, piece work agreement, scheduled contract, cost plus percentage contract	1		Dt. 06.01.2023
5	Explanation of various item – administrative approval, technical sanction, contingency budget, tender, preparation of notice inviting tender, receiving of quotations, earnest money, security deposit,	1		Dt. 07.01.2023
	Advance payment, on account payment, intermediate payment, final payment, running bill, final, regular and temporary establishment, cash, major and sub head of account,	1		Dt. 11.01.2023
	Temporary advance, issue rate, storage, supervision charges, suspense account, debit, credit, book transfer, voucher	1		Dt. 12.01.2023

Sl. No.	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. 13.01.2023
	Muster roll & Acquittance roll : its preparation & use for making payment of pay and wages	1		Dt. 18.01.2023
	Labour and labour report, method of labour payment, use of forms and necessity of submission	1		Dt. 19.01.2023
	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		Dt. 20.01.2023
	Revision	1		Dt. 21.01.2023

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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 2023

BRANCH:-CIVIL ENGG.

SEMESTER: 5TH

SECTION:- C1

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

SEMESTER FROM DT.15.09.2022 TO 21.01.2023

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

CLASS ALLOTTED /WEEK:- 06 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	<b>TESTS ON SOIL:</b>			
	1.1 Determination of specific gravity of soil by pycnometer/ Density bottle.	SEPTEMBER	02	Dt.19.09.2022 , Dt. 20.09.2022
	1.2 Determination of field Density of soil by core cutter method.		01	Dt. 26.09.2022
	1.3 Determination of particle size gradation of sand/Gravel by sieve analysis.		01	Dt. 27.09. 2022
	1.4 Wet Mechanical using pippette Method for clay and silt.	OCTOBER	01	Dt.10.10.2022
	1.5 Determination of liquid limit by soil by casagrande's apparatus.		01	Dt. 11.10.2022
	1.6 Determination of plastic limit of soil.		01	Dt. 17.10.2022
	1.7 Determination of shrinkage limit of soil.		01	Dt.18.10.2022
	1.9 Determination of MDD & OMC of soil by using modified proctor test.		01	Dt. 31.10.2022
	1.12 Determination of CBR value using laboratory CBR testing device.	NOVEMBER	02	Dt.01.11.2022 , Dt. 07.11.2022

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
	1.10 Determination of C and $\Phi$ of soil sample by triaxial test device.		02	Dt. 14.11.2022, Dt. 15.11.2022
	1.8 Determination of coefficient of permeability of coarse grained soils under constant head method.		01	Dt. 21.11.2022
	<b>HYDRAULICS LABORATORY :</b>			
	2.1 Verification of Bernoulli's Theorem		01	Dt. 22.11.2022
2	2.2 Determination of coefficient of Discharge of a rectangular notch fitted in open Channel.		02	Dt. 28.11.2022, Dt. 29.11.2022
	2.3 Determination of coefficient of Discharge of a Venturimeter, Orificemeter fitted in a pipe	DECEMBER	01	Dt. 05.12.2022
	2.4 Determination of head Loss due to friction and coefficient of friction for flow through pipe.		01	Dt. 06.12.2022
	<b>TRANSPORTATION LABORATORY:</b>			
	3.1 Penetration test of bitumen.		01	Dt. 12.12.2022
3	3.2 Ductility test of bitumen.		01	Dt. 13.12.2022
	3.3 Viscosity test of bitumen.		01	Dt. 19.12.2022
	3.4 Determination of bitumen content by centri fuge extractor.		01	Dt. 20.12.2022



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
	<b>PUBLIC HEALTH ENGINEERING LABORATORY:</b>			
	4.1 Determination of turbidity of water sample using turbidimeter/Nephelometer/Jackson's candle turbidimeter.		02	Dt. 26.12.2022 , Dt. 27.12.2022
	4.2 Determination of PH of water sample using (a) PH meter (b) colour computer	JANUARY	02	Dt. 02.01.2023, Dt. 03.01.2023
4	4.3 Determination of chlorid content of a water sample using method of titration.		01	Dt. 09.01.2023
	4.4 Determination of coagulant (Alum) dose requirement for a turbid water sample by jar test.		01	Dt. 10.01.2023
	4.5 Determination of dissolved oxygen of water sample.		01	Dt. 16.01.2023
	4.6 Determination of bacteriological quality of water sample by coliform test.		01	Dt. 17.01.2023



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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-CIVIL ENGG.

SEMESTER: 5TH

SECTION:- C1

NAME OF THE FACULTY : (1) ER. SWARNAPRAVA PARIDA, (2) ER. JIBAN JYOTI ROUT (LECT. IN CIVIL ENGG.)

SEMESTER FROM DT. 15.09.2022 TO 21.01.2023

PRACTICAL SUBJECT: ESTIMATING PRACTICE – II (PR-2)

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
	<b>Estimate of Culverts and Bridges:</b>			
1	1.1 Detailed estimate of a RCC slab culvert with right angled wing walls with bar bending schedule.	SEPTEMBER	02	Dt. 15.09.2022, Dt. 22.09.2022
	1.2 detailed estimate of RCC Hume pipe culvert with splayed angled wing wall	OCTOBER	02	Dt. 29.09.2022, Dt. 13.10.2022
	<b>Estimate of Irrigation Structures:</b>			
2	2.1 Detailed estimate of simple type of vertical fall to given specification		02	Dt. 20.10.2022, Dt. 27.10.2022
	2.2 Detailed estimate of drainage siphon to given specification.	NOVEMBER	02	Dt. 03.11.2022, Dt. 10.11.2022
	<b>Estimate of Roads:</b>			
3	3.1 Detailed estimate of a water bound macadam road		01	Dt. 17.11.2022
	3.2 Detailed estimate of a flexible pavement in cutting / filling.		01	Dt. 24.11.2022
	3.3 Detailed estimate of septic tank and soak pit for 50 users	DECEMBER	01	Dt. 01.12.2022



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
	Estimate of Tube well, Piles and Pile Cap, Isolated and Combined Footings:			
4	4.1 Detailed estimate of Tube wells.		02	Dt. 08-12-2022, Dt. 15-12-2022
	4.2 Detailed estimate of Piles and Pile cap.		02	Dt. 22-12-2022, Dt. 29-12-2022
	4.3 Detailed estimate of Isolated footings.	JANUARY	02	Dt. 05-01-2023, Dt. 12-01-2023
	4.4 Detailed estimate of Combined footing.		01	Dt. 19-01-2023

  
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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-CIVIL ENGG.

SEMESTER: 5TH

SECTION:- C1

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

SEMESTER FROM DT.15.09.2022 TO 21.01.2023

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

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	Selection of Project Assignment	SEPT	05	Dt.16.09.2022, Dt.21.09.2022, Dt.23.09.22, Dt. 28.09.2022, Dt. 30.09.2022
02	Planning & execution of Consideration	OCT	04	Dt.12.10.2022, Dt.14.10.2022, Dt.19.10.2022, Dt.21.10.2022
03	Quality of Performance	NOV	04	Dt.26.10.2022, Dt.28.10.2022, Dt.02.11.22, Dt.04.11.2022
04	Providing Solution of Problems or production of final product		04	Dt.09.11.2022, Dt.11.11.2022, Dt.16.11.2022, Dt.18.11.2022
05	Sense of Responsibility	DEC	04	Dt.23.11.2022, Dt.25.11.2022, Dt.30.11.22, Dt.02.12.2022
06	Self expression/communication/Presentation skills		04	Dt.07.12.2022, Dt.09.12.2022, Dt.14.12.22, Dt.16.12.2022
07	Interpersonal Skills/human Relations		04	Dt.21.12.2022, Dt.23.12.2022, Dt.28.12.22, Dt.30.12.22
08	Report writing skills	JAN	03	Dt.04.01.2023, Dt.06.01.2023, Dt.11.01.2023
09	Viva Voce		03	Dt.13.01.2023, Dt.18.01.2023, Dt.20.01.2023

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**PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23**

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.15.09.2022 TO 21.01.2023

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	September	03	Dt. 17.09.2022, Dt. 24.09.2022 Dt. 01.10.2022
02	Seminar On different Technical Topics	October	03	Dt. 15.10.2022, Dt. 22.10.2022 Dt. 29.10.2022
03	Seminar On different Environment issues	November	03	Dt. 05.11.2022, Dt. 12.11.2022 Dt. 19.11.2022
04	Personality development Class	December	04	Dt. 26.11.2022, Dt. 03.12.2022 Dt. 10.12.2022, Dt. 17.12.2022
05	Cultural Activities	January	03	Dt. 24.12.2022, Dt. 31.12.2022 Dt. 07.01.2023

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**P.C.I.E.T., CHHENDIPADA, DIST- ANGUL**  
**PRACTICAL LESSON PLAN FOR THE SESSION 2022 -23**

BRANCH:-CIVIL ENGG.

SEMESTER: 5TH

SECTION:- C2

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

SEMESTER FROM DT.15.09.2022 TO 21.01.2023

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

CLASS ALLOTTED /WEEK:- 06 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
	<b>TESTS ON SOIL:</b>			
	1.1 Determination of specific gravity of soil by pycnometer/ Density bottle.	SEPTEMBER	02	Dt. 20.09.2022, Dt. 22.09.2022
	1.2 Determination of field Density of soil by core cutter method.		02	Dt. 27.09.2022, Dt. 29.09.2022
	1.3 Determination of particle size gradation of sand/Gravel by sieve analysis.	OCTOBER	02	Dt. 11.10.2022, Dt. 13.10.2022
	1.4 Wet Mechanical using pippette Method for clay and silt.		02	Dt. 18.10.2022, Dt. 20.10.2022
1	1.5 Determination of liquid limit by soil by casagrande's apparatus.		01	Dt. 27.10.2022
	1.6 Determination of plastic limit of soil.	NOVEMBER	01	Dt. 01.11.2022
	1.7 Determination of shrinkage limit of soil.		01	Dt. 03.11.2022
	1.9 Determination of MDD & OMC of soil by using modified proctor test.		01	Dt. 10.11.2022
	1.12 Determination of CBR value using laboratory CBR testing device.		01	Dt. 15.11.2022



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
	1.10 Determination of C and $\Phi$ of soil sample by triaxial test device.		01	Dt. 17.11.2022
	1.8 Determination of coefficient of permeability of coarse grained soils under constant head method.		02	Dt. 22.11.2022 , Dt. 24.11.2022
	<b>HYDRAULICS LABORATORY :</b>			
2	2.1 Verification of Bernoulli's Theorem		01	Dt. 29.11.2022
	2.2 Determination of coefficient of Discharge of a rectangular notch fitted in open Channel.	DECEMBER	01	Dt. 01.12.2022
	2.3 Determination of coefficient of Discharge of a Venturimeter, Orificemeter fitted in a pipe		01	Dt. 06.12.2022
	2.4 Determination of head Loss due to friction and coefficient of friction for flow through pipe.		01	Dt. 08.12.2022
	<b>TRANSPORTATION LABORATORY:</b>			
3	3.1 Penetration test of bitumen.		01	Dt. 13.12.2022
	3.2 Ductility test of bitumen.		01	Dt. 19.12.2022
	3.3 Viscosity test of bitumen.		01	Dt. 20.12.2022
	3.4 Determination of bitumen content by centri fuge extractor.		01	Dt. 22.12.2022

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
	<b>PUBLIC HEALTH ENGINEERING LABORATORY:</b>			
	4.1 Determination of turbidity of water sample using turbidimeter/Nephelometer/Jackson's candle turbidimeter.		02	Dt. 27.12.2022, Dt. 29.12.2022
	4.2 Determination of PH of water sample using (a) PH meter (b) colour computer		02	Dt. 03.01.2023, Dt. 05.01.2023
4	4.3 Determination of chlorid content of a water sample using method of titration.	JANUARY	02	Dt. 10.01.2023, Dt. 12.01.2023
	4.4 Determination of coagulant (Alum) dose requirement for a turbid water sample by jar test.		01	Dt. 12.01.2023
	4.5 Determination of dissolved oxygen of water sample.		01	Dt. 17.01.2023
	4.6 Determination of bacteriological quality of water sample by coliform test.		01	Dt. 19.01.2023

Ipsita Nayek Babita Salun.  
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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-CIVIL ENGG.

SEMESTER: 5TH

SECTION:- C2

NAME OF THE FACULTY : (1) (1) ER. JIBAN JYOTI ROUT, (2) ER. PRITAM SAGAR SAHOO (LECT. IN CIVIL ENGG.)

SEMESTER FROM DT. 15.09.2022 TO 21.01.2023

PRACTICAL SUBJECT: ESTIMATING PRACTICE – II (PR-2)

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
	<b>Estimate of Culverts and Bridges:</b>			
1	1.1 Detailed estimate of a RCC slab culvert with right angled wing walls with bar bending schedule.	SEPTEMBER	02	Dt. 19.09.2022, Dt. 26.09.2022
	1.2 detailed estimate of RCC Hume pipe culvert with splayed angled wing wall	OCTOBER	02	Dt. 10.10.2022, Dt. 17.10.2022
	<b>Estimate of Irrigation Structures:</b>			
2	2.1 Detailed estimate of simple type of vertical fall to given specification		02	Dt. 31.10.2022, Dt. 07.12.2022
	2.2 Detailed estimate of drainage siphon to given specification.		01	Dt. 14.11.2022
	<b>Estimate of Roads:</b>			
3	3.1 Detailed estimate of a water bound macadam road		02	Dt. 21.11.2022, Dt. 28.11.2022
	3.2 Detailed estimate of a flexible pavement in cutting / filling.	DECEMBER	01	Dt. 05.12.2022
	3.3 Detailed estimate of septic tank and soak pit for 50 users		01	Dt. 12.12.2022

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
	Estimate of Tube well, Piles and Pile Cap, Isolated and Combined Footings:			
4	4.1 Detailed estimate of Tube wells.		01	Dt. 19.12.2022
	4.2 Detailed estimate of Piles and Pile cap.		01	Dt. 26.12.2022
	4.3 Detailed estimate of Isolated footings.	JANUARY	02	Dt. 02.01.2023, Dt. 09.01.2023
	4.4 Detailed estimate of Combined footing.		01	Dt. 16.01.2023

*Pritam Sahu* *J. Rout*

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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-CIVIL ENGG.

SEMESTER: 5TH

SECTION:- C2

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

SEMESTER FROM DT.15.09.2022 TO 21.01.2023

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

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	Selection of Project Assignment	SEPT.	05	Dt. 16.09.2022, Dt. 21.09.2022, Dt. 23.09.22, Dt. 28.09.2022, Dt. 30.09.2022
02	Planning & execution of Consideration	OCT.	04	Dt. 12.10.2022, Dt. 14.10.2022, Dt. 19.10.22, Dt. 21.10.2022
03	Quality of Performance	NOV	04	Dt. 26.10.2022, Dt. 28.10.2022, Dt. 02.11.22, Dt. 04.11.2022
04	Providing Solution of Problems or Production of final Product		04	Dt. 09.11.2022, Dt. 11.11.2022, Dt. 16.11.22, Dt. 18.11.2022
05	Sense of Responsibility	DEC.	04	Dt. 23.11.2022, Dt. 25.11.2022, Dt. 30.11.22, Dt. 02.12.2022
06	Self Expression/Communication/Presentation Skills		04	Dt. 07.12.2022, Dt. 09.12.2022, Dt. 14.12.2022, Dt. 16.12.2022
07	Interpersonal Skills/human relations		04	Dt. 21.12.2022, Dt. 23.12.2022, Dt. 28.12.22, Dt. 30.12.22
08	Report Writing Skills	JAN	03	Dt. 04.01.2023, Dt. 06.01.2023, Dt. 11.01.23
09	Viva Voce		03	Dt. 13.01.2023, Dt. 18.01.2023, Dt. 20.01.2023



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SEMESTER: 5TH

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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.15.09.2022 TO 21.01.2023

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	September	03	Dt. 17.09.2022, Dt. 24.09.2022 Dt. 01.10.2022
02	Seminar On different Technical Topics	October	03	Dt. 15.10.2022, Dt. 22.10.2022 Dt. 29.10.2022
03	Seminar On different Environment issues	November	03	Dt. 05.11.2022, Dt. 12.11.2022 Dt. 19.11.2022.
04	Personality developement class	December	04	Dt. 26.11.2022, Dt. 03.12.2022 Dt. 10.12.2022, Dt. 17.12.2022
05	Cultural Activities	January	03	Dt. 24.12.2022, Dt. 31.12.2022 Dt. 07.01.2023

*Babita Sahu Pritam S. Sahoo*

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