

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

**PRACTICAL LESSON PLAN FOR THE SESSION 2021-22**

**BRANCH:- CIVIL ENGG.**

**SEMESTER: 3RD**

**SECTION:- C1**

**NAME OF THE FACULTY : (1) ER. SIBANI SAHU, (2) ER. BABITA SAHU, (3) ER. NANDINI PRADHAN (LECT. IN CIVIL ENGG.)**

**SEMESTER FROM DT.01.10.2021 TO 31.01.2022**

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

**CLASS ALLOTTED /WEEK:- 6 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
(I)	MATERIAL TESTING LABORATORY		<b>20</b>	
1	Determination of young's modulus of steel in a tensile testing machine.	<b>OCTOBER</b>	<b>06/10</b>	<b>Dt - 22.10.2021</b>
2	Determination of fineness of cement by sieving.	<b>2021</b>		<b>Dt - 27.10.2021</b>
3	Determination of normal consistency, initial and final setting time of cement.	<b>NOVEMBER</b>		<b>Dt - 29.10.2021 &amp; Dt - 05.11.2021</b>
4	Determination of soundness of cement by Le-chatelier apparatus.	<b>2021</b>		<b>Dt - 10.11.2021</b>
5	Determination of compressive strength of cement.			<b>Dt - 12.11.2021</b>
6	Determination of compressive strength of burnt clay, fly ash bricks and blocks .			<b>Dt - 17.11.2021 &amp; Dt - 24.11.2021</b>
7	Grading of fine & coarse aggregate by sieving for concrete.			<b>Dt - 26.11.2021</b>
8	Determination of specific gravity and bulking of sand.	<b>DECEMBER</b>		<b>Dt - 01.12.2021</b>
9	Determination of specific gravity and bulk density of coarse aggregate.	<b>2021</b>		<b>Dt - 03.12.2021 &amp; Dt - 08.12.2021</b>
10	Grading of road aggregates.			<b>Dt - 10.12.2021</b>

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOB TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
11	Determination of flakiness, elongation of road aggregates.			Dt- 15.12.2021
12	Determination of crushing value test of aggregates.			Dt- 17.12.2021 & Dt- 22.12.2021
13	Los -Angeles abrasion test of aggregate.			Dt- 24.12.2021 & Dt- 29.12.2021
14	Impact test of aggregate.			Dt- 31.12.2021
15	Determination of soundness test of road aggregates.	JANUARY		Dt- 05.01.2022
(II)	CONCRETE LABORATORY	2022	10	
16	Determination of compressive strength of concrete cubes			Dt- 05.01.2022
17	Determination of workability of concrete by: (a) Slump cone method (b) Compaction factor method.			Dt- 07.01.2022, Dt- 12.01.2022 & Dt- 19.01.2022
18	Non destructive tests on concrete. (a) Demonstration on rebound hammer. (b) Ultrasonic pulse velocity measuring instrument.			Dt- 21.01.2022 & Dt- 28.01.2022




  
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**PRACTICAL LESSON PLAN FOR THE SESSION 2021-22**

**BRANCH:- CIVIL ENGG.**

**SEMESTER: 3RD**

**SECTION:- C1**

**NAME OF THE FACULTY : (1) ER. SUJATA DALEI, (2) ER. SIBANI SAHU, (3) ER. PRITAM SAGAR SAHOO (LECT. IN CIVIL ENGG.)  
(4) ER. SOUMYADARSINI SWAIN (T.A.)**

**SEMESTER FROM DT.01.10.2021 TO 31.01.2022**

**PRACTICAL SUBJECT: CIVIL ENGINEERING DRAWING-1 (PR-2)**

**CLASS ALLOTTED /WEEK:- 5 PERIODS**

SI. No.	NAME OF THE PRACTICAL EXPERIMENT/JOB TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
1	<b>AUTOCAD SOFTWARE</b>		09	
	1.1.Recap of the draw ,format,edit, dimension,modify commands.	OCTOBER		Dt-18.10.2021 & Dt-21.10.2021
	1.2.Draw 2D drawings of the following building components,doors, windows,cross section through wall ,spread footing,column footing,stair case,R.C.C . T-beam and slab.	NOVEMBER		Dt-25.10.2021, Dt-28.10.2021 & Dt-01.11.2021
	1.3-Develop Isometric drawings of simple objects.			Dt-08.11.2021 & Dt-11.11.2021
	1.4.Develope 3D drawing of simple objects.			Dt-15.11.2021 & Dt-18.11.2021
2	<b>PLAN,ELEVATION AND SECTIONAL ELEVATION OF FLAT ROOF BUILDING FROM LINE DIAGRAM AND GIVEN SPECIFICATION WITH USE OF AUTOCAD SOFTWARE.</b>		08	
	2.1.Plan at window sill level of a single storeyed R.C. roof slab building with elevation and sectional views from given line diagram and specification.			Dt-12.11.2021, Dt-25.11.2021 & Dt-29.11.2021
	2.2.Detail drawing of double storeyed pucca building with R.C.C stair case from line diagram and given specification.	DECEMBER		Dt-02.12.2021 & Dt-06.12.2021

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
	2.3.Preparation of approval drawing of a residential building as per the norms of local approving authority with site plan,index plan etc.			Dt-09.12.2021, Dt-13.12.2021 Dt-16.12.2021
3	PLAN,ELEVATION AND SECTIONAL ELEVATION OF FLAT ROOF BUILDING WITH AC SHEET/GC/TILES ON WOODEN STRUCTURE WITH USE OF AUTOCAD COMMANDS. Detail drawing of inlined roof building from given line diagram and specification (gabled/hipped).	JANUARY	03	Dt-20.12.2021, Dt-23.12.2021 Dt-27.12.2021, Dt-30.12.2021 Revision-03.01.2022
4	BUILDING PLANNING:		05	
	4.1.Planning of building for specific cost based on approximate plinth area rate.			Dt-06.01.2022 & Dt-10.01.2022
	4.2.Orientation of buildings,location of openings and living areas.			Dt-13.01.2022 & Dt-17.01.2022
	4.3.Line plan of school ,hostel ,market complex and dispensary building.			Dt-20.01.2022, Dt-24.01.2022 Revision - Dt-27.01.2022

S. Satei, S. Sahu, B. Sahu, R. S. Sahoo  
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B. Sahu  
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W. S. Sahu  
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**PRACTICAL LESSON PLAN FOR THE SESSION 2021-22**

**BRANCH:- CIVIL ENGG.**

**SEMESTER: 3RD**

**SECTION:- C1**

**NAME OF THE FACULTY :** (1) ER. SUNIL KUMAR SAHU, (2) ER. SWARNAPRAVA PARIDA, (3) ER. SUMANTA KUMAR SAHOO  
(LECT. IN CIVIL ENGG.), (4) ER. SATYABRATA DEHURY (T.A.)

**SEMESTER FROM DT.01.10.2021 TO 31.01.2022**

**PRACTICAL SUBJECT: ESTIMATING PRACTICE (PR-3)**

**CLASS ALLOTTED /WEEK :- 03 PERIODS**

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOB TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
1	Preparation of plinth area estimate & detailed estimate for the following ;	OCTOBER	20	
	1.1.Single storeyed two roomed building with specification as per orissa P.W.D schedule of rates and analysis of rates.	NOVEMBER		Dt.25.10.2021, Dt.02.11.2021 & Dt. 09.11.2021
	1.2.A two storeyed pucca building with specification as per orissa P.W.D schedule of rates and analysis of rates.			Dt.16.11.2021, Dt.23.11.2021 & Dt.30.11.2021
2	Analysis of rates in detail for the above items of building basing on orissa Govt. analysis of rate with help of MS. Excel software.	DECEMBER		Dt.07.12.2021, Dt.14.12.2021 & Dt. 21.12.2021
3	Calculation of dry materials for different items of works basing on orissa Govt. analysis of rate with help of Excel software.	JANUARY		Dt. 28.12.2021, Dt.04.01.2022 & Dt. 11.01.2022
4	Preparation of abstract of cost and bill of quantities of the estimates as per item no. 1.0 above with help of MS. EXCEL software.			Dt.18.01.2022 & Dt.25.01.2022

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PRACTICAL LESSON PLAN FOR THE SESSION 2021-22

SEMESTER: 3RD

SECTION:- C2

BRANCH:- CIVIL ENGG.

NAME OF THE FACULTY : (1) ER. SIBANI SAHU, (2) ER. BABITA SAHU, (3) ER. NANDINI PRADHAN (LECT. IN CIVIL ENGG.)

SEMESTER FROM DT.01.10.2021 TO 31.01.2022

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

CLASS ALLOTTED /WEEK:- 6 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
(I)	MATERIAL TESTING LABORATORY		20	
1	Determination of young's modulus of steel in a tensile testing machine.	OCTOBER		DT- 22.10.2021
2	Determination of fineness of cement by sieving.	2021		DT- 27.10.2021
3	Determination of normal consistency, initial and final setting time of cement.	NOVEMBER		DT- 29.10.2021 & DT- 05.11.2021
4	Determination of soundness of cement by Le-chatelier apparatus.	2021		DT- 10.11.2021
5	Determination of compressive strength of cement.			DT- 12.11.2021
6	Determination of compressive strength of burnt clay, fly ash bricks and blocks .			DT- 17.11.2021 & DT- 24.11.2021
7	Grading of fine & coarse aggregate by sieving for concrete.			DT- 26.11.2021
8	Determination of specific gravity and bulking of sand.	DECEMBER		DT- 01.12.2021
9	Determination of specific gravity and bulk density of coarse aggregate.	2021		DT- 03.12.2021 & DT- 08.12.2021
10	Grading of road aggregates.			DT- 10.12.2021




Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOB TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
11	Determination of flakiness, elongation of road aggregates.			Dt- 15.12.2021
12	Determination of crushing value test of aggregates.			Dt- 17.12.2021 & Dt- 22.12.2021
13	Los -Angeles abrasion test of aggregate.			Dt- 29.12.2021 & Dt- 29.12.2021
14	Impact test of aggregate.			Dt- 31.12.2021
15	Determination of soundness test of road aggregates.	JANUARY		Dt- 05.01.2022
(II)	CONCRETE LABORATORY	2022	10	
16	Determination of compressive strength of concrete cubes			Dt- 05.01.2022
17	Determination of workability of concrete by: (a) Slump cone method (b) Compaction factor method.			Dt- 07.01.2022, Dt- 12.01.2022 & Dt- 19.01.2022
18	Non destructive tests on concrete. (a) Demonstration on rebound hammer. (b) Ultrasonic pulse velocity measuring instrument.			Dt- 21.01.2022 & Dt- 28.01.2022



  
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**PRACTICAL LESSON PLAN FOR THE SESSION 2021-22**

**BRANCH:- CIVIL ENGG.**

**SEMESTER: 3RD**

**SECTION:- C2**

**NAME OF THE FACULTY : (1) ER. SUJATA DALEI, (2) ER. SIBANI SAHU, (3) ER. PRITAM SAGAR SAHOO (LECT. IN CIVIL ENGG.)**

**(4) ER. SOUMYADARSINI SWAIN (T.A.)**

**SEMESTER FROM DT.01.10.2021 TO 31.01.2022**

**PRACTICAL SUBJECT: CIVIL ENGINEERING DRAWING-1 (PR-2)**

**CLASS ALLOTTED /WEEK:- 5 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
1	<b>AUTOCAD SOFTWARE</b>		<b>09</b>	
	1.1.Recap of the draw ,format,edit, dimension,modify commands.	<b>OCTOBER - 2021</b>		<b>Dt - 18.10.2021 &amp; Dt - 27.10.2021</b>
	1.2.Draw 2D drawings of the following building components,doors, windows,cross section through wall ,spread footing,column footing,stair case,R.C.C . T-beam and slab.	<b>NOVEMBER - 2021</b>		<b>Dt - 25.10.2021, Dt - 28.10.2021 &amp; Dt - 01.11.2021</b>
	1.3-Develop Isometric drawings of simple objects.			<b>Dt - 08.11.2021 &amp; Dt - 11.11.2021</b>
	1.4.Develope 3D drawing of simple objects.			<b>Dt - 15.11.2021 &amp; Dt - 18.11.2021</b>
2	<b>PLAN,ELEVATION AND SECTIONAL ELEVATION OF FLAT ROOF BUILDING FROM LINE DIAGRAM AND GIVEN SPECIFICATION WITH USE OF AUTOCAD SOFTWARE.</b>		<b>08</b>	
	2.1.Plan at window sill level of a single storeyed R.C. roof slab building with elevation and sectional views from given line diagram and specification.			<b>Dt - 22.11.2021, Dt - 25.11.2021 &amp; Dt - 29.11.2021</b>
	2.2.Detail drawing of double storeyed pucca building with R.C.C stair case from line diagram and given specification.	<b>DECEMBER - 2021</b>		<b>Dt - 02.12.2021 &amp; Dt - 06.12.2021</b>



Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOB TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
	2.3.Preparation of approval drawing of a residential building as per the norms of local approving authority with site plan,index plan etc.			Dt - 09.12.2021, Dt - 13.12.2021 & Dt - 16.12.2021
3	PLAN,ELEVATION AND SECTIONAL ELEVATION OF FLAT ROOF BUILDING WITH AC SHEET/GC/TILES ON WOODEN STRUCTURE WITH USE OF AUTOCAD COMMANDS. Detail drawing of inlined roof building from given line diagram and specification (gabled/hipped).	JANUARY - 2022	03	Dt - 20.12.2021, Dt - 23.12.2021 Dt - 27.12.2021, Dt - 30.12.2021 & Revision - Dt - 03.01.2022
4	BUILDING PLANNING:		05	
	4.1.Planning of building for specific cost based on approximate plinth area rate.			Dt - 06.01.2022 & Dt - 10.01.2022
	4.2.Orientation of buildings,location of openings and living areas.			Dt - 13.01.2022 & Dt - 17.01.2022
	4.3.Line plan of school ,hostel ,market complex and dispensary building.			Dt - 20.01.2022, Dt - 24.01.2022 Revision - Dt - 27.01.2022

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**PRACTICAL LESSON PLAN FOR THE SESSION 2021-22**

BRANCH:- CIVIL ENGG.

SEMESTER: 3RD

SECTION:- C2

NAME OF THE FACULTY : (1) ER. SUNIL KUMAR SAHU, (2) ER. SWARNAPRAVA PARIDA, (3) SUMANTA KUMAR SAHOO  
 (LECT. IN CIVIL ENGG.), (4) SATYABRATA DEHURY, T.A.

SEMESTER FROM DT.01.10.2021 TO 31.01.2022

PRACTICAL SUBJECT: ESTIMATING PRACTICE (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
1	Preparation of plinth area estimate & detailed estimate for the following ;	OCTOBER	20	
	1.1.Single storeyed two roomed building with specification as per orissa P.W.D schedule of rates and analysis of rates.	NOVEMBER		Dt- 26.10.2021, Dt- 02.11.2021 & Dt- 09.11.2021
	1.2.A two storeyed pucca building with specification as per orissa P.W.D schedule of rates and analysis of rates.			Dt- 16.11.2021, Dt- 23.11.2021 & Dt- 30.11.2021
2	Analysis of rates in detail for the above items of building basing on orissa Govt. analysis of rate with help of MS. Excel software.	DECEMBER		Dt- 07.12.2021, Dt- 14.12.2021 & Dt- 21.12.2021
3	Calculation of dry materials for different items of works basing on orissa Govt. analysis of rate with help of Excel software.	JANUARY		Dt- 28.12.2021, Dt- 01.01.2022 & Dt- 11.01.2022
4	Preparation of abstract of cost and bill of quantities of the estimates as per item no. 1.0 above with help of MS. EXCEL software.			Dt- 18.01.2022 & Dt- 25.01.2022

*SKS* *S.P. Parida*

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*B. Sahoo*

SIGNATURE OF THE H.O.D.

*Pr. D. Len*  
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P.C.I.E.T., CHHENDIPADA, DIST- ANGUL				
PRACTICAL LESSON PLAN FOR THE SESSION 2021 - 22				
BRANCH:-CIVIL ENGG.		SEMESTER: 4TH		SECTION:- C1
NAME OF THE FACULTY : (1) ER. SIBANI SAHU, (2) ER. PRITAM SAGAR SAHOO, (3) ER. SUMANTA SAHOO (LECT. IN CIVIL ENGG.)				
SEMESTER FROM DT. 14.03.2022 TO 30.06.2022			PRACTICAL SUBJECT: LAND SURVEY PRACTICE-I ( PR-1)	
CLASS ALLOTTED /WEEK:- 07 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	Linear Measurements, Chaining and Chain Surveying:	MARCH	02	
	1.1 Testing and adjusting of a metric chain.			Dt. 14.03.2022
	1.2 Measurement of distance between two points (more than 2 chain lengths apart) with chain including direct ranging.			Dt. 14.03.2022
	1.3 Setting out different types of triangles, given the lengths of sides with chain and tape.			Dt. 21.03.2022
	1.4 Measurement of distance between two points by chaining across a sloped ground using stepping method and a clinometer.			Dt. 21.03.2022
	1.5 Measurement of distance by chaining across a obstacles on the chain line i) a pond ii)a building iii) a stream/ river (in the event of non-availability of stream / river, a pond or lake may be taken, considering that chaining around the same is not possible.			Dt. 25.03.2022
	1.6 Setting perpendicular offsets to various objects (at least 3) from a chain line using-(1) tape, (2) cross-staff, (3) optical square and comparing the accuracy of the 3 methods			Dt. 25.03.2022
	1.7 Setting oblique offsets to objects (at least 3) from a chain using tape			Dt. 25.03.2022

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
2	<b>Angular Measurement and Compass Surveying:</b>		04	
	2.1 Testing and adjustment of Prismatic compass and Surveyor's compass.			Dt. 26.03.2022
	2.2 Measurement of bearings of lines (at least 3 lines) and determination of included angles using Prismatic compass and Surveyor's compass.			Dt. 28.03.2022
	2.3 Setting out triangles (at least 2) with compass, given the length and bearing of one side and included angles.			Dt. 28.03.2022
	2.4 Setting out a closed traverse of 5 sides, using prismatic compass, given bearing of one line and included angles and lengths of sides.	APRIL		Dt. 02.04.2022
	2.5 Conducting chain and compass traverse surveying in a given plot of area (2plots) and recording data in the field book.			Dt. 04.04.2022
3	<b>Map Reading Cadastral Maps &amp; Nomenclature:</b>		03	
	3.1 Study of direction, Scale, Grid Reference and Grid Square			Dt. 08.04.2022
	3.2 Study of Signs and Symbols			Dt. 08.04.2022
	3.3 Cadastral Map Preparation Methodology			Dt. 08.04.2022
	3.4 Unique identification number of parcel			Dt. 09.04.2022
	3.5 Positions of existing Control Points and its types			Dt. 11.04.2022
	3.6 Adjacent Boundaries and Features, Topology Creation and verification.			Dt. 11.04.2022



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>Plane Table Surveying:</b>		04	
4	4.1 Setting up of Plane Table and Plotting five points by radiation method and five inaccessible points by intersection method.			Dt. 16.04.2022 & Dt. 18.04.2022
	4.2 Conducting Plane Table surveying in a given plot of area by traversing (Atleast a 5-sided traverse and locating the objects)			Dt. 18.04.2022 & Dt. 22.04.2022
	4.3 Plane table surveying by Resection method (two point & three point problem method)			Dt. 22.04.2022 & Dt. 23.04.2022
	<b>Theodolite Traversing:</b>		03	
5	5.1 Measurement of horizontal angles (3nos.) by repetition and reiteration method and compare two methods			Dt. 25.04.2022
	5.2 Prolonging a given straight line with the help of a theodolite			Dt. 25.04.2022
	5.3 Determination of magnetic bearing of 3 given straight lines Setting out a closed traverse with 6 sides and entering the field data	MAY		Dt. 06.05.2022
	5.4 Plotting the traverse from exercise 4.1 and checking the error of closure			Dt. 06.05.2022
	5.5 Setting out an open traverse with 5 sides and entering the field data			Dt. 06.05.2022 & Dt. 07.05.2022
	5.6 Plotting the traverse from exercise 4.3 and checking the error of closure			Dt. 09.05.2022
	<b>Leveling and Contouring:</b>		04	
6	6.1 Making temporary adjustments of Levels			Dt. 09.05.2022
	6.2 Determining Reduced Levels of five given points taking staff readings with Levels.			Dt. 09.05.2022

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
	6.3 Determining the difference of levels between two points (3 pairs of points / group) by taking staff readings from single set up of level, recording the readings in level book and application of Arithmetic check. (At least 3 change points must be covered)			Dt. 13.05.2022
	6.4 Conduct Fly Leveling (Compound) between two distant points with respect to R.L. of a given B.M. and reduction of levels by both height of collimation and rise & fall method and applying Arithmetic check. (At least 3 change points must be covered)			Dt. 13.05.2022
	6.5 Conduct profile leveling along the given alignment for a road / canal for 150m length, taking L. S. at every 15m and C. S. at 1m & 3m apart on both sides at every 30m interval and recording the data in level book and applying arithmetical check.			Dt. 14.05.2022 & Dt. 20.05.2022
	6.6 Locating contour points in the given area by direct method / indirect method			Dt. 20.05.2022
	6.7 Conducting block level survey in the given area			Dt. 20.05.2022
	6.8 Plotting and drawing contour map of a given area by radial method			Dt. 21.05.2022 & Dt. 23.05.2022
	6.9 Map Interpretation: Interpret Human and Economic Activities (i.e.: Settlement, Communication, Land use etc.), Interpret Physical landform (i.e.: Relief, Drainage Pattern etc.), Problem Solving and Decision Making			Dt. 23.05.2022
			03	
7	<b>Basics of Aerial Photography:</b>			Dt. 27.05.2022
	7.1 Film			Dt. 27.05.2022
	7.2. Focal Length			Dt. 27.05.2022
	7.3. Scale			Dt. 27.05.2022



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
	7.4. Types of Aerial Photographs (Oblique, Straight)	JUNE		Dt. 28.05.2022 & Dt. 03.06.2022
8	Basics of Photogrammetry, DEM and Ortho Image Generation:		12	
	8.1 Classification of Photogrammetry			Dt. 03.06.2022
	8.2 Aerial Photogrammetry			Dt. 04.06.2022 & Dt. 06.06.2022
	8.3 Terrestrial Photogrammetry			Dt. 06.06.2022
	Photogrammetry Process:			Dt. 10.06.2022
	8.4 Acquisition of Imagery using aerial and satellite platform			Dt. 11.06.2022 & Dt. 13.06.2022
	8.5 Control Survey			Dt. 13.06.2022
	8.6 Geometric Distortion in Imagery			Dt. 17.06.2022
	8.7 Application of Imagery and its support data			Dt. 18.06.2022 & Dt. 20.06.2022
	8.8 Orientation and Triangulation			Dt. 20.06.2022
	8.9 Stereoscopic Measurement: X-parallax and Y-parallax			Dt. 24.06.2022
	8.10 DTM/DEM Generation			Dt. 25.06.2022 & Dt. 27.06.2022
	8.11 Ortho Image Generation			Dt. 27.06.2022

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**P.C.I.E.T., CHHENDIPADA, DIST- ANGUL**  
**PRACTICAL LESSON PLAN FOR THE SESSION 2021 - 22**

BRANCH:-CIVIL ENGG.

SEMESTER: 4TH

SECTION:- C1

NAME OF THE FACULTY : (1) ER. SIBANI SAHU, (2) ER. SUJATA DALEI, (3) ER. SUMANTA SAHOO (LECT. IN CIVIL ENGG.),

SEMESTER FROM DT. 14.03.2022 TO 30.06.2022

PRACTICAL SUBJECT: CIVIL ENGINEERING DRAWING – II ( PR-2)

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	Detailed Drawing of Culvert	MARCH	08	
	Half foundation plan and half top plan, cross sectional elevation and longitudinal section of			Dt. 15.03.2022 & Dt. 17.03.2022
	i) RCC Slab culvert with right angled wing wall			Dt. 22.03.2022, Dt. 24.03.2022 & Dt. 29.03.2022
	ii) Hume pipe culvert with splayed wing wall	APRIL		Dt. 31.03.2022, Dt. 05.04.2022, & Dt. 07.04.2022
2	Irrigation Structures		12	
	2.1 Detail drawing of a vertical drop type fall (Sarada Type) from given specifications	MAY		Dt. 12.04.2022, 19.04.2022, 21.04.2022, 26.04.2022, 05.05.2022, 10.05.2022
	2.2 Drawing of a Drainage siphon from given specifications			12.05.2022, 17.05.2022, 19.05.2022, 24.05.2022, 26.05.2022, 31.05.2022
3	Plumbing and Sanitary connections and fittings of a two roomed building	JUNE	03	Dt. 02.06.2022, Dt. 07.06.2022 & Dt. 09.06.2022
4	Detailed drawing of septic tank up to 50 users with soak pit and necessary connection from the water closet.		07	Dt. 16.06.2022, 21.06.2022, 23.06.2022 Dt. 28.06.2022 & Dt. 30.06.2022

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PRACTICAL LESSON PLAN FOR THE SESSION 2021-22				
BRANCH:- CIVIL ENGINEERING		SEMESTER: 4TH	SECTION:- C1	
NAME OF THE FACULTY:- (1) ER. SIBANI SAHU, (2) ER. PRITAM SAGAR SAHOO (LECT. IN CIVIL ENGG.)				
SEMESTER FROM DT. 14.03.2022 TO 30.06.2022			PRACTICAL SUBJECT : SEMINAR (PR-3)	
CLASS 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
01	Introduction About Technical Seminar	MARCH	03	16.03.2022, 23.03.2022
02	Each Student has to select a recent topic in the area of Civil Engg.	APRIL	03	30.03.2022, 06.04.2022 13.04.2022
03	Preparation of Power point Presentation of Selected Topic			13.04.2022, 20.04.2022, 27.04.22
04	Preparation of Seminar Report of Selected topic	MAY	03	04.05.2022, 11.05.2022, 18.05.2022
05	Seminar Presentation of all students in individual different topics	JUNE		25.05.22, 01.06.22, 08.06.2022 22.06.2022
06	Submission of Seminar report for evaluation		01	29.06.2022

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P.S. Sahoo

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Babita Sahu.

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**PRACTICAL LESSON PLAN FOR THE SESSION 2021 - 22**

BRANCH:-CIVIL ENGG.

SEMESTER: 4TH

SECTION:- C2

NAME OF THE FACULTY : (1) ER. SIBANI SAHU, (2) ER. PRITAM SAGAR SAHOO, (3) ER. SUMANTA SAHOO (LECT. IN CIVIL ENGG.)

SEMESTER FROM DT. 14.03.2022 TO 30.06.2022

PRACTICAL SUBJECT: LAND SURVEY PRACTICE-I ( PR-1)

CLASS ALLOTTED /WEEK:- 07 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
	Linear Measurements, Chaining and Chain Surveying:	MARCH	02	
	1.1 Testing and adjusting of a metric chain.			Dt. 14.03.2022
	1.2 Measurement of distance between two points (more than 2 chain lengths apart) with chain including direct ranging.			Dt. 14.03.2022
	1.3 Setting out different types of triangles, given the lengths of sides with chain and tape.			Dt. 21.03.2022
	1.4 Measurement of distance between two points by chaining across a sloped ground using stepping method and a clinometer.			Dt. 21.03.2022
1	1.5 Measurement of distance by chaining across a obstacles on the chain line i) a pond ii)a building iii) a stream/ river (in the event of non-availability of stream / river, a pond or lake may be taken, considering that chaining around the same is not possible.			Dt. 25.03.2022
	1.6 Setting perpendicular offsets to various objects (at least 3) from a chain line using-(1) tape, (2) cross-staff, (3) optical square and comparing the accuracy of the 3 methods			Dt. 25.03.2022
	1.7 Setting oblique offsets to objects (at least 3) from a chain using tape			Dt. 25.03.2022



Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOB TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
2	Angular Measurement and Compass Surveying:		04	
	2.1 Testing and adjustment of Prismatic compass and Surveyor's compass.			Dt. 26. 03. 2022
	2.2 Measurement of bearings of lines (at least 3 lines) and determination of included angles using Prismatic compass and Surveyor's compass.			Dt. 28. 03. 2022
	2.3 Setting out triangles (at least 2) with compass, given the length and bearing of one side and included angles.			Dt. 28. 03. 2022
	2.4 Setting out a closed traverse of 5 sides, using prismatic compass, given bearing of one line and included angles and lengths of sides.	APRIL		Dt. 02. 04. 2022
	2.5 Conducting chain and compass traverse surveying in a given plot of area (2 plots) and recording data in the field book.			Dt. 04. 04. 2022
3	Map Reading Cadastral Maps & Nomenclature:		03	
	3.1 Study of direction, Scale, Grid Reference and Grid Square			Dt. 08. 04. 2022
	3.2 Study of Signs and Symbols			Dt. 08. 04. 2022
	3.3 Cadastral Map Preparation Methodology			Dt. 08. 04. 2022
	3.4 Unique identification number of parcel			Dt. 09. 04. 2022
	3.5 Positions of existing Control Points and its types			Dt. 11. 04. 2022
	3.6 Adjacent Boundaries and Features, Topology Creation and verification.			Dt. 11. 04. 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
			04	
4	<b>Plane Table Surveying:</b>			
	4.1 Setting up of Plane Table and Plotting five points by radiation method and five inaccessible points by intersection method.			Dt. 16.04.2022 & Dt. 18.04.2022
	4.2 Conducting Plane Table surveying in a given plot of area by traversing (Atleast a 5-sided traverse and locating the objects)			Dt. 18.04.2022 & Dt. 22.04.2022
	4.3 Plane table surveying by Resection method (two point & three point problem method)			Dt. 22.04.2022 & Dt. 23.04.2022
			03	
5	<b>Theodolite Traversing:</b>			
	5.1 Measurement of horizontal angles (3nos.) by repetition and reiteration method and compare two methods			Dt. 25.04.2022
	5.2 Prolonging a given straight line with the help of a theodolite			Dt. 25.04.2022
	5.3 Determination of magnetic bearing of 3 given straight lines Setting out a closed traverse with 6 sides and entering the field data	MAY		Dt. 06.05.2022
	5.4 Plotting the traverse from exercise 4.1 and checking the error of closure			Dt. 06.05.2022
	5.5 Setting out an open traverse with 5 sides and entering the field data			Dt. 06.05.2022 & Dt. 07.05.2022
	5.6 Plotting the traverse from exercise 4.3 and checking the error of closure			Dt. 09.05.2022
			04	
6	<b>Leveling and Contouring:</b>			
	6.1 Making temporary adjustments of Levels			Dt. 09.05.2022
	6.2 Determining Reduced Levels of five given points taking staff readings with Levels.			Dt. 09.05.2022



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
	6.3 Determining the difference of levels between two points (3 pairs of points / group) by taking staff readings from single set up of level, recording the readings in level book and application of Arithmetic check. (At least 3 change points must be covered)			Dt. 13.05.2022
	6.4 Conduct Fly Leveling (Compound) between two distant points with respect to R.L. of a given B.M. and reduction of levels by both height of collimation and rise & fall method and applying Arithmetic check. (At least 3 change points must be covered)			Dt. 13.05.2022
	6.5 Conduct profile leveling along the given alignment for a road / canal for 150m length, taking L. S. at every 15m and C. S. at 1m & 3m apart on both sides at every 30m interval and recording the data in level book and applying arithmetical check.			Dt. 14.05.2022 & Dt. 20.05.2022
	6.6 Locating contour points in the given area by direct method / indirect method			Dt. 20.05.2022
	6.7 Conducting block level survey in the given area			Dt. 20.05.2022
	6.8 Plotting and drawing contour map of a given area by radial method			Dt. 21.05.2022 & Dt. 23.05.2022
	6.9 Map Interpretation: Interpret Human and Economic Activities (i.e.: Settlement, Communication, Land use etc.), Interpret Physical landform (i.e.: Relief, Drainage Pattern etc.), Problem Solving and Decision Making			Dt. 23.05.2022
	<b>Basics of Aerial Photography:</b>		03	
	7.1 Film			Dt. 27.05.2022
7	7.2. Focal Length			Dt. 27.05.2022
	7.3. Scale			Dt. 27-05-2022

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
	7.4. Types of Aerial Photographs (Oblique, Straight)	JUNE		Dt. 28.05.2022 & Dt. 03.06.2022
8	Basics of Photogrammetry, DEM and Ortho Image Generation:		12	
	8.1 Classification of Photogrammetry			Dt. 03.06.2022
	8.2 Aerial Photogrammetry			Dt. 04.06.2022 & Dt. 06.06.2022
	8.3 Terrestrial Photogrammetry			Dt. 06.06.2022
	Photogrammetry Process:			Dt. 10.06.2022
	8.4 Acquisition of Imagery using aerial and satellite platform			Dt. 11.06.2022 & Dt. 13.06.2022
	8.5 Control Survey			Dt. 17.06.2022
	8.6 Geometric Distortion in Imagery			Dt. 18.06.2022 & Dt. 20.06.2022
	8.7 Application of Imagery and its support data			Dt. 20.06.2022
	8.8 Orientation and Triangulation			Dt. 24.06.2022
	8.9 Stereoscopic Measurement: X-parallax and Y-parallax			Dt. 24.06.2022
	8.10 DTM/DEM Generation			Dt. 25.06.2022 & Dt. 27.06.2022
	8.11 Ortho Image Generation			Dt. 27.06.2022

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**P.C.I.E.T., CHHENDIPADA, DIST- ANGUL**  
**PRACTICAL LESSON PLAN FOR THE SESSION 2021 - 22**

BRANCH:-CIVIL ENGG.

SEMESTER: 4TH

SECTION:- C2

NAME OF THE FACULTY : (1) ER. SIBANI SAHU, (2) ER. SUJATA DALEI, (3) ER. SUMANTA SAHOO (LECT. IN CIVIL ENGG.),

SEMESTER FROM DT. 14.03.2022 TO 30.06.2022

PRACTICAL SUBJECT: CIVIL ENGINEERING DRAWING – II ( PR-2)

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	Detailed Drawing of Culvert	MARCH	08	
	Half foundation plan and half top plan, cross sectional elevation and longitudinal section of			Dt. 15.03.2022 & Dt. 17.03.2022
	i) RCC Slab culvert with right angled wing wall			Dt. 22.03.2022, Dt. 24.03.2022 & Dt. 29.03.2022
	ii) Hume pipe culvert with splayed wing wall	APRIL		Dt. 31.03.2022, Dt. 05.04.2022 & Dt. 07.04.2022
2	Irrigation Structures		12	
	2.1 Detail drawing of a vertical drop type fall (Sarada Type) from given specifications	MAY		Dt. 12.04.2022, 19.04.2022, 21.04.2022, 26.04.2022, 05.05.2022 & 10.05.2022
	2.2 Drawing of a Drainage siphon from given specifications			12.05.2022, 17.05.2022, 19.05.2022, 24.05.2022, 26.05.2022, 31.05.2022
3	Plumbing and Sanitary connections and fittings of a two roomed building	JUNE	03	Dt. 02.06.2022, Dt. 07.06.2022 & Dt. 09.06.2022
4	Detailed drawing of septic tank up to 50 users with soak pit and necessary connection from the water closet.		07	Dt. 16.06.2022, 21.06.2022, 23.06.2022, Dt. 28.06.2022 & Dt. 30.06.2022

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**PRACTICAL LESSON PLAN FOR THE SESSION 2021-22**

BRANCH:- CIVIL ENGINEERING

SEMESTER: 4TH

SECTION:- C2

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

SEMESTER FROM DT. 14.03.2022 TO 30.06.2022

PRACTICAL SUBJECT : SEMINAR (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	Introduction About Technical Seminar	MARCH	03	16.03.2022 , 23.03.2022
02	Each student has to select a recent topic in the area of Civil Engg.	APRIL	03	30.03.2022, 06.04.2022, 13.04.22
03	Preparation of Power Point Presentation of selected topic			13.04.2022, 20.04.2022, 27.04.22
04	Preparation of seminar report of selected topic	MAY	03	04.05.2022, 11.05.2022, 18.05.22
05	Seminar Presentation of all students in individual different topics	JUNE		25.05.2022, 01.06.2022, 08.06.2022 22.06.2022
06	Submission of Seminar Report for evaluation		01	29.06.2022

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**PRACTICAL LESSON PLAN FOR THE SESSION 2021-2022**

BRANCH:-CIVIL ENGG.

SEMESTER: 5TH

SECTION:- C1

NAME OF THE FACULTY : (1) ER. SUNIL KUMAR SAHU, (2) ER. SIBANI SAHU, (3) ER. BABITA SAHU (LECT. IN CIVIL ENGG.),  
 (4) ER. SOUMYADARSINI SWAIN (T.A.)

SEMESTER FROM DT.01.10.2021 TO 31.01.2022

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
	TESTS ON SOIL:	OCTOBER	12	
	1.1 Determination of specific gravity of soil by pycnometer/ Density bottle.	2021		Dt. 07.10.2021
	1.2 Determination of field Density of soil by core cutter method.			Dt. 18.10.2021
	1.3 Determination of particle size gradation of sand/Gravel by sieve analysis.			Dt. 21.10.2021
	1.4 Wet Mechanical using pippette Method for clay and silt.			Dt. 25.10.2021
1	1.5 Determination of liquid limit by soil by casagrande's apparatus.			Dt. 28.10.2021
	1.6 Determination of plastic limit of soil.	NOVEMBER		Dt. 01.11.2021
	1.7 Determination of shrinkage limit of soil.	2021		Dt. 08.11.2021
	1.9 Determination of MDD & OMC of soil by using modified proctor test.			Dt. 11.11.2021
	1.12 Determination of CBR value using laboratory CBR testing device.			Dt. 15.11.2021

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.			Dt. 18.11.2021
	1.8 Determination of coefficient of permeability of coarse grained soils under constant head method.			Dt. 22.11.2021 & Dt. 25.11.2021
	<b>HYDRAULICS LABORATORY :</b>		06	
	2.1 Verification of Bernoulli's Theorem			Dt. 29.11.2021
2	2.2 Determination of coefficient of Discharge of a rectangular notch fitted in open Channel.	DECEMBER		Dt. 02.12.2021
	2.3 Determination of coefficient of Discharge of a Venturimeter, Orificemeter fitted in a pipe	2021		Dt. 06.12.2021 & Dt. 09.12.2021
	2.4 Determination of head Loss due to friction and coefficient of friction for flow through pipe.			Dt. 13.12.2021 & Dt. 16.12.2021
	<b>TRANSPORTATION LABORATORY:</b>		06	
	3.1 Penetration test of bitumen.			Dt. 20.12.2021
3	3.2 Ductility test of bitumen.			Dt. 23.12.2021 & Dt. 27.12.2021
	3.3 Viscosity test of bitumen.	JANUARY		Dt. 30.12.2021 & Dt. 03.01.2021
	3.4 Determination of bitumen content by centri fuge extractor.	2022		Dt. 06.01.2022




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
	PUBLIC HEALTH ENGINEERING LABORATORY:		06	
	4.1 Determination of turbidity of water sample using turbidimeter/Nephelometer/Jackson's candle turbidimeter.			Dt. 10.01.2022
	4.2 Determination of PH of water sample using (a) PH meter (b) colour computer			Dt. 13.01.2022
4	4.3 Determination of chlorid content of a water sample using method of titration.			Dt. 17.01.2022
	4.4 Determination of coagulant (Alum) dose requirment for a turbid water sample by jar test.			Dt. 20.01.2022
	4.5 Determination of dissolved oxygen of water sample.			Dt. 24.01.2022
	4.6 Determination of bacteriological quality of water sample by coliform test.			Dt. 27.01.2022



  
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**PRACTICAL LESSON PLAN FOR THE SESSION 2021 - 22**

**BRANCH:-CIVIL ENGG.**

**SEMESTER: 5TH**

**SECTION:- C1**

**NAME OF THE FACULTY : (1) ER. SUNIL KUMAR SAHU, (2) ER. NANDINI PRADHAN (LECT. IN CIVIL ENGG.)**

**SEMESTER FROM DT. 01.10.2021 TO 31.01.2022**

**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
1	<b>Estimate of Culverts and Bridges:</b>	OCTOBER		
	1.1 Detailed estimate of a RCC slab culvert with right angled wing walls with bar bending schedule.		01	Dt. 26.10.2021
	1.2 detailed estimate of RCC Hume pipe culvert with splayed angled wing wall	NOVEMBER	01	Dt. 02.11.2021
2	<b>Estimate of Irrigation Structures:</b>			
	2.1 Detailed estimate of simple type of vertical fall to given specification		01	Dt. 09.11.2021
	2.2 Detailed estimate of drainage siphon to given specification.		01	Dt. 16.11.2021
3	<b>Estimate of Roads:</b>			
	3.1 Detailed estimate of a water bound macadam road		01	Dt. 23.11.2021
	3.2 Detailed estimate of a flexible pavement in cutting / filling.		01	Dt. 30.11.2021
	3.3 Detailed estimate of septic tank and soak pit for 50 users	DEC	01	Dt. 07.12.2021



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
4	Estimate of Tube well, Piles and Pile Cap, Isolated and Combined Footings:			
	4.1 Detailed estimate of Tube wells.		01	Dt. 14.12.2021
	4.2 Detailed estimate of Piles and Pile cap.		02	Dt. 21.12.2021 & Dt. 28.12.2021
	4.3 Detailed estimate of Isolated footings.	JANUARY	02	Dt. 04.01.2022 & Dt. 11.01.2022
	4.4 Detailed estimate of Combined footing.		02	Dt. 18.01.2022 & Dt. 25.01.2022

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*B. Sahu*

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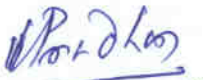
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P.C.I.E.T., CHHENDIPADA, DIST- ANGUL				
PRACTICAL LESSON PLAN FOR THE SESSION 2021 - 22				
BRANCH:-CIVIL ENGG.		SEMESTER: 5TH		SECTION:- C1
NAME OF THE FACULTY : (1) ER. SIBANI SAHU, (2) ER. PRITAM SAGAR SAHOO, (3) ER. BABITA SAHU (LECT. IN CIVIL ENGG.)				
SEMESTER FROM DT.01.10.2021 TO 31.01.2022			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	OCT	15	6/10/2021, 9.10.2021, 23.10.2021, 27.10.2021, 30.10.2021, 3.11.2021
02	PLANNING & EXECUCATION	NOV	15	6.11.2021, 10.11.2021, 13.11.2021, 17.11.2021, 20.11.2021, 24.11.2021, 27.11.2021
03	QUALITY OF PERFORMANCE	DEC	15	1.12.2021, 4.12.2021, 8.12.2021, 11.12.2021, 15.12.2021, 18.12.2021, 22.12.2021, 25.12.2021, 29.12.2021
04	PRODUCTION OF FINAL PRODUCT	JAN	15	5.1.2022, 8.1.2022, 12.1.2022, 15.1.2022, 19.1.2022, 22.1.2022, 29.1.2022

  
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**P.C.I.E.T., CHHENDIPADA, DIST- ANGUL**  
**PRACTICAL LESSON PLAN FOR THE SESSION 2021 -22**

BRANCH:-CIVIL ENGG.

SEMESTER: 5TH

SECTION:- C2

NAME OF THE FACULTY : (1) ER. SUNIL KUMAR SAHU, (2) ER. SIBANI SAHU, (3) ER. BABITA SAHU (LECT. IN CIVIL ENGG.),  
 (4) ER. SOUMYADARSINI SWAIN (T.A.)

SEMESTER FROM DT.01.10.2021 TO 31.01.2022

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
	TESTS ON SOIL:	OCTOBER	12	
	1.1 Determination of specific gravity of soil by pycnometer/ Density bottle.	2021		Dt. 07.10.2021
	1.2 Determination of field Density of soil by core cutter method.			Dt. 18.10.2021
	1.3 Determination of particle size gradation of sand/Gravel by sieve analysis.			Dt. 21.10.2021
	1.4 Wet Mechanical using pippette Method for clay and silt.			Dt. 25.10.2021
1	1.5 Determination of liquid limit by soil by casagrande's apparatus.			Dt. 28.10.2021
	1.6 Determination of plastic limit of soil.	NOVEMBER		Dt. 01.11.2021
	1.7 Determination of shrinkage limit of soil.	2021		Dt. 08.11.2021
	1.9 Determination of MDD & OMC of soil by using modified proctor test.			Dt. 11.11.2021
	1.12 Determination of CBR value using laboratory CBR testing device.			Dt. 15.11.2021

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.			Dt. 18.11.2021
	1.8 Determination of coefficient of permeability of coarse grained soils under constant head method.			Dt. 22.11.2021 & Dt. 25.11.2021
	<b>HYDRAULICS LABORATORY :</b>		06	
	2.1 Verification of Bernoulli's Theorem			Dt. 29.11.2021
2	2.2 Determination of coefficient of Discharge of a rectangular notch fitted in open Channel.	DECEMBER		Dt. 02.12.2021
	2.3 Determination of coefficient of Discharge of a Venturimeter, Orificemeter fitted in a pipe	2021		Dt. 06.12.2021 & Dt. 09.12.2021
	2.4 Determination of head Loss due to friction and coefficient of friction for flow through pipe.			Dt. 13.12.2021 & Dt. 16.12.2021
	<b>TRANSPORTATION LABORATORY:</b>		06	
	3.1 Penetration test of bitumen.			Dt. 20.12.2021
3	3.2 Ductility test of bitumen.			Dt. 23.12.2021 & Dt. 27.12.2021
	3.3 Viscosity test of bitumen.	JANUARY		Dt. 30.12.2021 & Dt. 03.01.2022
	3.4 Determination of bitumen content by centri fuge extractor.	2022		Dt. 06.01.2022

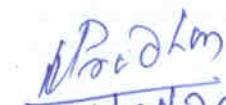


Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOB TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
	<b>PUBLIC HEALTH ENGINEERING LABORATORY:</b>		06	
	4.1 Determination of turbidity of water sample using turbidimeter/Nephelometer/Jackson's candle turbidimeter.			Dt. 10.01.2022
	4.2 Determination of PH of water sample using (a) PH meter (b) colour computer			Dt. 13.01.2022
4	4.3 Determination of chlorid content of a water sample using method of titration.			Dt. 17.01.2022
	4.4 Determination of coagulant (Alum) dose requirement for a turbid water sample by jar test.			Dt. 20.01.2022
	4.5 Determination of dissolved oxygen of water sample.			Dt. 24.01.2022
	4.6 Determination of bacteriological quality of water sample by coliform test.			Dt. 27.01.2022



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

**PRACTICAL LESSON PLAN FOR THE SESSION 2021 - 22**

**BRANCH:-CIVIL ENGG.**

**SEMESTER: 5TH**

**SECTION:- C2**

**NAME OF THE FACULTY : (1) ER. SUNIL KUMAR SAHU, (2) ER. NANDINI PRADHAN (LECT. IN CIVIL ENGG.)**

**SEMESTER FROM DT. 01.10.2021 TO 31.01.2022**

**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
1	<b>Estimate of Culverts and Bridges:</b>	OCTOBER		
	1.1 Detailed estimate of a RCC slab culvert with right angled wing walls with bar bending schedule.		01	Dt. 26.10.2021
	1.2 detailed estimate of RCC Hume pipe culvert with splayed angled wing wall	NOVEMBER	01	Dt. 02.11.2021
2	<b>Estimate of Irrigation Structures:</b>			
	2.1 Detailed estimate of simple type of vertical fall to given specification		01	Dt. 09.11.2021
	2.2 Detailed estimate of drainage siphon to given specification.		01	Dt. 16.11.2021
3	<b>Estimate of Roads:</b>			
	3.1 Detailed estimate of a water bound macadam road		01	Dt. 23.11.2021
	3.2 Detailed estimate of a flexible pavement in cutting / filling.		01	Dt. 30.11.2021
	3.3 Detailed estimate of septic tank and soak pit for 50 users	DEC	01	Dt. 07.12.2021



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
4	Estimate of Tube well, Piles and Pile Cap, Isolated and Combined Footings:			
	4.1 Detailed estimate of Tube wells.		01	Dt. 14.12.2021
	4.2 Detailed estimate of Piles and Pile cap.		02	Dt. 21.12.2021 & Dt. 28.12.2021
	4.3 Detailed estimate of Isolated footings.	JANUARY	02	Dt. 04.01.2022 & Dt. 11.01.2022
	4.4 Detailed estimate of Combined footing.		02	Dt. 18.01.2022 & Dt. 25.01.2022

S.K.S.  
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N. Pradhas

B. Sahu  
SIGNATURE OF THE H.O.D.

M. P. D. M.  
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P.C.I.E.T., CHHENDIPADA, DIST- ANGUL				
PRACTICAL LESSON PLAN FOR THE SESSION 2021 - 22				
BRANCH:-CIVIL ENGG.		SEMESTER: 5TH		SECTION:- C2
NAME OF THE FACULTY : (1) ER. SIBANI SAHU, (2) ER. PRITAM SAGAR SAHOO, (3) ER. BABITA SAHU (LECT. IN CIVIL ENGG.)				
SEMESTER FROM DT.01.10.2021 TO 31.01.2022			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 DATES MADE
01	SELECTION OF PROJECT	OCT	15	6.10.2021, 9.10.2021, 23.10.2021 27.10.2021, 30.10.2021, 3.11.2021
02	PLANNING & EXECUTION	NOV	15	6.11.2021, 10.11.2021, 13.11.2021, 17.11.2021, 20.11.2021, 24.11.2021, 27.11.2021
03	QUALITY OF PERFORMANCE	DEC	15	1.12.2021, 4.12.2021, 18.12.2021, 11.12.2021 15.12.2021, 18.12.2021, 22.12.2021, 25.12.2021 29.12.2021
04	PRODUCTION OF FINAL PRODUCT	JAN	15	5.1.2022, 8.1.2022, 12.1.2022 15.1.2022, 19.1.2022, 22.1.2022, 29.1.2022

*Sibani Sahu*  
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*B. Sahu*  
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*P. S. Sahoo*  
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**PRACTICAL LESSON PLAN FOR THE SESSION 2021 - 22**

**BRANCH:-CIVIL ENGG.**

**SEMESTER: 6TH**

**SECTION:- C1**

**NAME OF THE FACULTY : (1) ER. SUJATA DALEI, (2) ER. BABITA SAHU (LECT. IN CIVIL ENGG.)**

**SEMESTER FROM DT. 14.03.2022 TO 30.06.2022 PRACTICAL SUBJECT: CONSTRUCTION WORKS PRACTICE & MS PROJECT (PR-1)**

**CLASS ALLOTTED /WEEK:- 05 PERIODS**

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
	<b>PART 1: Construction Work Practices</b>		<b>13</b>	
1	1. Study of tools required for construction of masonry.	<b>MARCH</b>		Dt. 14.03.2022
2	2. Lay out Plan of a building.			Dt - 16.03.2022
3	3. Construction of 1 & 1 ½ Brick thick walls in English Bond in Mud mortar including a corner.			Dt - 21.03.2022
4	Construction of 1 & 1 ½ Brick thick Pillar in Mud mortar.			Dt - 23.03.2022
5	Bar bending and fabrication of reinforcements for a beam.			Dt - 28.03.2022
6	Bar bending and fabrication of reinforcements for a slab.			Dt - 30.03.2022
7	Bar bending and fabrication of reinforcements for a lintel with chajja.	<b>APRIL</b>		Dt - 04.04.2022
8	Bar bending and fabrication of reinforcements for a column.			Dt - 06.04.2022
9	Conducting a Non destructive compressive strength test on concrete beam using rebound Hammer as per I.S:1311(Part-2)-1992.			Dt - 11.04.2022
10	Study of pipe joints and plumbing fixtures.			Dt - 13.04.2022

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
11	<b>Field Visits:</b>			
	Visit to a construction site of a building where the following works are in progress.			Dt - 18.04.2022
	Excavation of foundation, b) Masonry works, c) Plumbing works d) Painting (interior/ exterior), e) Wood works, f) Fabrication & concreting works, g) Flooring			Dt - 20.04.2022, Dt - 25.04.22
	<b>PART II: MS Project</b>		13	
1	Introduction to Microsoft Project			Dt - 27.04.2022
	1.1 Project Management-Definition & concept			Dt - 04.05.2022
	1.2 Features of Microsoft project	MAY		Dt - 09.05.2022
	1.3 MS project scheduling for engineering			
2	Creating a project plan			Dt - 11.05.2022
	2.1 Basic information for a new project			Dt - 18.05.2022
	2.2 Creating project from a blank			Dt - 23.05.2022, Dt - 25.05.2022
	2.3 Creating project from existing			
4	<b>Basics of Microsoft Project</b>			Dt - 01.06.2022, Dt - 06.06.2022
	3.1 Estimating a project	JUNE		Dt - 08.06.2022, Dt - 13.06.2022
	3.2 Project Task			Dt - 20.06.2022, Dt - 22.06.2022
	3.3 Project Resources			Dt - 22.06.2022
5	Tracking the project progress			Dt - 27.06.2022
6	Project Reporting			Dt - 29.06.2022
7	Custom views and field			

S. Date: *B. Sahu*  
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**PRACTICAL LESSON PLAN FOR THE SESSION 2021 - 22**

**BRANCH:-CIVIL ENGG.**

**SEMESTER: 6TH**

**SECTION:- C1**

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

**SEMESTER FROM DT. 14.03.2022 TO 30.06.2022**

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

**CLASS ALLOTTED /WEEK:- 05 PERIODS**

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
1	<b>TRIGONOMETRICAL SURVEYING &amp; TACHEOMETRY:</b>		03	
	Determination of height of 3 objects whose bases are accessible	MARCH		Dt-15.03.2022
	Determination of stadia constants			Dt-15.03.2022
	Determination of horizontal distance an elevation with Staff vertical , by stadia method			Dt-15.03.2022
2	<b>SETTING OUT CURVES AND SITE SURVEYING:</b>		03	
	Setting out a simple circular curve by offsets from long chord			Dt-22.03.2022
	Setting out a simple circular curve by offsets from the tangent			Dt-22.03.2022
	Setting out a simple circular curve by offsets from chords produces			Dt-22.03.2022
	Setting out a simple circular curve by Rankine's method of tangent angle (Deflection angles)			Dt-24.03.2022
	Setting out a site the center line and foundation width of a building from the given plan			Dt-24.03.2022
	Setting out the foundation line for a culvert			Dt-29.03.2022
	Dividing an area into plots of given size			Dt-29.03.2022

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>STUDY OF MAP AND MAP SERIES:</b>		03	
	Physical Map			Dt-31.03.2022
	Topographic Map			Dt-31.03.2022
	Road Map			Dt-31.03.2022
	Political Map			Dt-31.03.2022
	Economic & Resources Map			Dt-31.03.2022
	Thematic Map			Dt-31.03.2022
	Climate Map			Dt-31.03.2022
	Open Series map and Defense Series Map			Dt-31.03.2022
	<b>STUDY ON GPS &amp; DGPS AND ETS:</b>		03	
	4.1 GPS: - Global Positioning, GPS Signals, Errors of GPS, Positioning Methods	APRIL		Dt-05.04.2022
	4.2 DGPS: - Differential Global Positioning System			Dt-05.04.2022
	4.2.1 Base Station Setup			Dt-07.04.2022
	4.2.2 Rover GPS Set up			Dt-07.04.2022
	4.2.3 Download, Post-Process and Export GPS data			Dt-07.04.2022
	4.2.4 Sequence to download GPS data from flashcards			Dt-12.04.2022
	4.2.5 Sequence to Post-Process GPS data			Dt-12.04.2022
	4.2.6 Sequence to export post process GPS data			Dt-19.04.2022
	4.2.7 Sequence to export GPS Time tags to file			Dt-19.04.2022



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
			08	
5	ETS: - Electronic Total Station			Dt-21.04.2022
	Distance Measurement			Dt-21.04.2022
	Angle Measurement			Dt-26.04.2022
	Leveling			Dt-26.04.2022
	Determining position			Dt-05.05.2022
	Reference networks	MAY		Dt-10.05.2022
	Errors and Accuracy			Dt-10.05.2022
6	STUDY OF GIS AND MAP PREPARATION USING GIS		06	Dt-10.05.2022
	Components of GIS, Integration of Spatial and Attribute Information			Dt-10.05.2022
	Three Views of Information System			Dt-12.05.2022
	Database or Table View, Map View and Model View			Dt-17.05.2022
	Spatial Data Model			Dt-19.05.2022
	Attribute Data Management and Metadata Concept			Dt-24.05.2022
	Prepare data and adding to Arc Map.			Dt-26.05.2022
	Organizing data as layers.			Dt-31.05.2022
	Editing the layers.	JUNE		Dt-02.06.2022
	Switching to Layout View.			Dt-07.06.2022
	Change page orientation.			Dt-09.06.2022
	Removing Borders.			Dt-15.06.2022, Dt-21.06.2022
	Adding and editing map information.			Dt-23.06.2022, Dt-28.06.2022
	Finalize the map			Dt-30.06.2022

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**PRACTICAL LESSON PLAN FOR THE SESSION 2021 - 22**

**BRANCH:-CIVIL ENGG.**

**SEMESTER: 6TH**

**SECTION:- C1**

**NAME OF THE FACULTY : (1) ER. SUNIL KUMAR SAHU, (2) ER. SWARNAPRAVA PARIDA, (3) ER. SUJATA DALEI (LECT., CIVIL ENGG.)**

**SEMESTER FROM DT. 14.03.2022 TO 30.06.2022**

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

**CLASS ALLOTTED /WEEK:-**

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
1	<b>Structural Detailing Practice:</b>		06	
	Draw the following with necessary details and schedule of bars from supplied sketches or given references such as SP 34			
	i) Slab, beam and lintel with chajja as in a simple building (Plate I)	MARCH		Dt - 25.03.2022
	ii) Columns, column-beam connections with & without splicing, isolated footing, staircase (Plate 2)			Dt - 25.03.2022
	iii) Different types of bolt connections, welded connections. (Plate3)			Dt - 25.03.2022
	iv) Details of Pile and Pile cap	APRIL		Dt - 08.04.2022
2	<b>Use of STADD Pro Software:</b>		05	
	2-D Modelling of structures, Use of Structure wizard, Geometry, Property, Support, Loads and combinations, Analysis			Dt - 22.04.2022
	Analysis of a Continuous beam with more than two span subjected to udl and point load			Dt - 22.04.2022



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
	3-D modeling of building structures ,dead load, live load, earthquake and wind load analysis, design of a 3 storeyed building and preparation of reinforcement drawing and detailing	MAY		Dt-06.05.2022
	Introduction to STADD foundation.			Dt-06.05.2022
	Revit Architecture Software:		03	
	Basics- Modify, Wall, Door, Window, Component Room, Roof, Floor, Grid, Lines, Dimension, Section, Level, Text, View			Dt-13.05.2022
	Modelling- Ramp, Railing, Stair			Dt-20.05.2022
	Site- Topo surface- Parking Component, Site Component			Dt-27.05.2022
3	Align, Split, Trim, offset, Match type, Line work, Paint, Scale, Unit	JUNE		Dt-03.06.2022 Dt-10.06.2022
	3D View			Dt-17.06.2022
	Preparation of approval drawing of a double storied residential building from given specifications with its 3D view using above commands			Dt-24.06.2022

S. Dalei Swarnaprabha SK2  
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Babita Sahu.  
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*[Signature]*  
30/06/2022  
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P.C.I.E.T., CHHENDIPADA, DIST- ANGUL  
PRACTICAL LESSON PLAN FOR THE SESSION 2021 - 22

BRANCH:-CIVIL ENGG. SEMESTER: 6TH SECTION:- C1  
NAME OF THE FACULTY : (1) ER. SUJATA DALEI (2) ER. NANDINI PRADHAN, (3) ER. BABITA SAHU (LECT., CIVIL ENGG.)  
SEMESTER FROM DT. 14.03.2022 TO 30.06.2022 PRACTICAL SUBJECT: PROJECT PHASE - II( PR-4 )  
CLASS ALLOTTED /WEEK:- 05 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
1	SELECTION OF PROJECT ASSIGNMENTS	MARCH	15	16.3.2022, 23.3.2022, 26.3.2022
2	PLANNING & EXECUTION OF CONSIDRATION	APRIL	15	30.3.2022, 6.4.2022, 13.4.2022
3	QUALITY OF PERFORMANCE			16.4.2022, 20.4.2022, 23.4.2022
4	SELECTION OF MATERIALS	MAY	15	27.4.2022, 4.5.2022, 7.5.2022
5	SENSE OF RESPONSIBILITY			11.5.2022, 14.5.2022, 18.5.2022
6	SELF EXPERIANCE / COMMUNICATION			21.5.2022, 25.5.2022
	/PRESENTATION SKILL	JUNE	15	28.5.2022, 1.6.2022
7	INTERPERSONAL SKILL / HUMAN RELATION			4.6.2022, 8.6.2022, 11.6.2022
8	REPORT WRITING SKILL		15	15.6.2022, 18.6.2022, 22.6.2022
9	VIVA VOICE			25.06.2022, 29.06.2022

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

PRACTICAL LESSON PLAN FOR THE SESSION 2021-22

BRANCH:- CIVIL ENGG.

SEMESTER: 6TH

SECTION:- C1

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

SEMESTER FROM DT. 14.03.2022 TO 30.06.2022

PRACTICAL SUBJECT : LIFE SKILLS (PR-5)

CLASS ALLOTTED /WEEK:- 02 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
1	SOCIAL SKILL	MARCH	03	25.3.2022
2	PROBLEM SOLVING	APRIL	03	8.4.2022, 22.4.2022
3	PRESENTATION SKILL	MAY	03	6.5.2022, 13.5.2022
4	GROUP DISCUSSION & INTERVIEW TECHNIQUES			20.5.2022, 27.05.2022
5	WORKING IN TEAM	JUNE	01	3.6.2022, 10.6.2022
6	TASK MANAGEMENT			
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**P.C.I.E.T., CHHENDIPADA, DIST- ANGUL**

**PRACTICAL LESSON PLAN FOR THE SESSION 2021 - 22**

**BRANCH:-CIVIL ENGG.**

**SEMESTER: 6TH**

**SECTION:- C2**

**NAME OF THE FACULTY : (1) ER. SUJATA DALEI, (2) ER. BABITA SAHU (LECT. IN CIVIL ENGG.)**

**SEMESTER FROM DT. 14.03.2022 TO 30.06.2022 PRACTICAL SUBJECT: CONSTRUCTION WORKS PRACTICE & MS PROJECT (PR-1)**

**CLASS ALLOTTED /WEEK:- 05 PERIODS**

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
	<b>PART 1: Construction Work Practices</b>		<b>13</b>	
1	1. Study of tools required for construction of masonry.	<b>MARCH</b>		Dt- 14.03.2022
2	2. Lay out Plan of a building.			Dt- 16.03.2022
3	3. Construction of 1 & 1 ½ Brick thick walls in English Bond in Mud mortar including a corner.			Dt- 21.03.2022
4	Construction of 1 & 1 ½ Brick thick Pillar in Mud mortar.			Dt- 23.03.2022
5	Bar bending and fabrication of reinforcements for a beam.			Dt- 28.03.2022
6	Bar bending and fabrication of reinforcements for a slab.			Dt- 30.03.2022
7	Bar bending and fabrication of reinforcements for a lintel with chajja.	<b>APRIL</b>		Dt- 04.04.2022
8	Bar bending and fabrication of reinforcements for a column.			Dt- 06.04.2022
9	Conducting a Non destructive compressive strength test on concrete beam using rebound Hammer as per I.S:1311(Part-2)-1992.			Dt- 11.04.2022
10	Study of pipe joints and plumbing fixtures.			Dt- 13.04.2022





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**PRACTICAL LESSON PLAN FOR THE SESSION 2021 - 22**

**BRANCH:-CIVIL ENGG.**

**SEMESTER: 6TH**

**SECTION:- C2**

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

**SEMESTER FROM DT. 14.03.2022 TO 30.06.2022**

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

**CLASS ALLOTTED /WEEK:- 05 PERIODS**

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
1	TRIGONOMETRICAL SURVEYING & TACHEOMETRY:		03	
	Determination of height of 3 objects whose bases are accessible	MARCH		St - 15/03/2022
	Determination of stadia constants			St - 15/03/2022
	Determination of horizontal distance an elevation with Staff vertical , by stadia method			St - 15/03/2022
2	SETTING OUT CURVES AND SITE SURVEYING:		03	
	Setting out a simple circular curve by offsets from long chord			St - 22/03/2022
	Setting out a simple circular curve by offsets from the tangent			St - 22/03/2022
	Setting out a simple circular curve by offsets from chords produces			St - 22/03/2022
	Setting out a simple circular curve by Rankine's method of tangent angle (Deflection angles)			St - 24/03/2022
	Setting out a site the center line and foundation width of a building from the given plan			St - 24/03/2022
	Setting out the foundation line for a culvert			St - 29/03/2022
	Dividing an area into plots of given size			St - 29/03/2022



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
3	<b>STUDY OF MAP AND MAP SERIES:</b>		03	
	Physical Map			St - 31/03/2022
	Topographic Map			St - 31/03/2022
	Road Map			St - 31/03/2022
	Political Map			St - 31/03/2022
	Economic & Resources Map			St - 31/03/2022
	Thematic Map			St - 31/03/2022
	Climate Map			St - 31/03/2022
	Open Series map and Defense Series Map			St - 31/03/2022
4	<b>STUDY ON GPS &amp; DGPS AND ETS:</b>		03	
	4.1 GPS: - Global Positioning, GPS Signals, Errors of GPS, Positioning Methods	APRIL		St - 05/04/2022
	4.2 DGPS: - Differential Global Positioning System			St - 05/04/2022
	4.2.1 Base Station Setup			St - 07/04/2022
	4.2.2 Rover GPS Set up			St - 07/04/2022
	4.2.3 Download, Post-Process and Export GPS data			St - 07/04/2022
	4.2.4 Sequence to download GPS data from flashcards			St - 12/04/2022
	4.2.5 Sequence to Post-Process GPS data			St - 12/04/2022
	4.2.6 Sequence to export post process GPS data			St - 19/04/2022
	4.2.7 Sequence to export GPS Time tags to file			St - 19/04/2022

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
5	ETS: - Electronic Total Station			St - 21/04/2022
	Distance Measurement			St - 21/04/2022
	Angle Measurement			St - 26/04/2022
	Leveling			St - 26/04/2022
	Determining position			St - 05/05/2022
	Reference networks	MAY		St - 10/05/2022
	Errors and Accuracy			
6	STUDY OF GIS AND MAP PREPARATION USING GIS		06	
	Components of GIS, Integration of Spatial and Attribute Information			St - 12/05/2022
	Three Views of Information System			St - 17/05/2022
	Database or Table View, Map View and Model View			St - 19/05/2022
	Spatial Data Model			St - 24/05/2022
	Attribute Data Management and Metadata Concept			St - 26/05/2022
	Prepare data and adding to Arc Map.			St - 31/05/2022
	Organizing data as layers.	JUNE		St - 02/06/2022
	Editing the layers.			St - 07/06/2022
	Switching to Layout View.			St - 09/06/2022
	Change page orientation.			St - 15/06/2022
	Removing Borders.			St - 23/06/2022, 21.06.22
	Adding and editing map information.			St - 30/06/2022, 28.06.22
	Finalize the map			St - 30/06/2022

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**PRACTICAL LESSON PLAN FOR THE SESSION 2021 - 22**

**BRANCH:-CIVIL ENGG.**

**SEMESTER: 6TH**

**SECTION:- C2**

**NAME OF THE FACULTY : (1) ER. SUNIL KUMAR SAHU, (2) ER. SWARNAPRAVA PARIDA, (3) ER. SUJATA DALEI (LECT., CIVIL ENGG.)**

**SEMESTER FROM DT. 14.03.2022 TO 30.06.2022**

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

**CLASS ALLOTTED /WEEK:-**

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
1	<b>Structural Detailing Practice:</b>		06	
	Draw the following with necessary details and schedule of bars from supplied sketches or given references such as SP 34			
	i) Slab, beam and lintel with chajja as in a simple building (Plate I)	MARCH		St - 25/03/2022
	ii) Columns, column-beam connections with & without splicing, isolated footing, staircase (Plate 2)			St - 25/03/2022
	iii) Different types of bolt connections, welded connections. (Plate3)			St - 25/03/2022
	iv) Details of Pile and Pile cap	APRIL		St - 08/04/2022
2	<b>Use of STADD Pro Software:</b>		05	
	2-D Modelling of structures, Use of Structure wizard, Geometry, Property, Support, Loads and combinations, Analysis			St - 22/04/2022
	Analysis of a Continuous beam with more than two span subjected to udl and point load			St - 22/04/2022

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
	3-D modeling of building structures ,dead load, live load, earthquake and wind load analysis, design of a 3 storeyed building and preparation of reinforcement drawing and detailing	MAY		DE - 06/05/2022
	Introduction to STADD foundation.			DE - 06/05/2022
	<b>Revit Architecture Software:</b>		03	
	Basics- Modify, Wall, Door, Window, Component Room, Roof, Floor, Grid, Lines, Dimension, Section, Level, Text, View			DE - 13/05/2022
	Modelling- Ramp, Railing, Stair			DE - 20/05/2022
	Site- Topo surface- Parking Component, Site Component			DE - 27/05/2022
3	Align, Split, Trim, offset, Match type, Line work, Paint, Scale, Unit			DE - 03/06/2022 10/06/2022
	3D View			DE - 17/06/2022
	Preparation of approval drawing of a double storied residential building from given specifications with its 3D view using above commands			DE - 24/06/2022

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**P.C.I.E.T., CHHENDIPADA, DIST- ANGUL**  
**PRACTICAL LESSON PLAN FOR THE SESSION 2021 - 22**

BRANCH:-CIVIL ENGG. SEMESTER: 6TH SECTION:- C2  
 NAME OF THE FACULTY : (1) ER. SUJATA DALEI (2) ER. NANDINI PRADHAN, (3) ER. BABITA SAHU (LECT., CIVIL ENGG.)  
 SEMESTER FROM DT. 14.03.2022 TO 30.06.2022 PRACTICAL SUBJECT: PROJECT PHASE - II( PR-4 )  
 CLASS ALLOTTED /WEEK:- 05 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
1	SELECTION OF PROJECT ASSIGN.	MARCH	15	16.3.2022, 23.3.2022, 26.3.2022
2	PLANNING & EXECUTION.	APRIL	15	30.3.2022, 6.4.2022, 13.4.2022
3	QUALITY OF PERFORMANCE			16.4.2022, 20.4.2022, 23.04.2022
4	SELECTION OF MATERIAL	MAY	15	27.4.2022, 4.5.2022, 7.5.2022
5	SENCE OF RESPONSIBILITY			11.5.2022, 14.5.2022, 18.5.2022
6	SELF EXPERIANCE/COMMUNICAT			21.5.2022, 25.5.2022,
	ION/PRESENTATION SKILL	JUNE	15	28.5.2022, 1.6.2022
7	INTER PERSONAL SKILL/HUMAN RELATION			4.6.2022, 8.6.2022, 11.6.2022
8	REPORT WRITING SKILL		15	15.6.2022, 18.6.2022, 22.6.2022
9	VIVA VOICE			25.06.2022, 29.06.2022

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

PRACTICAL LESSON PLAN FOR THE SESSION 2021-22

BRANCH:- CIVIL ENGG.

SEMESTER: 6TH

SECTION:- C2

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

SEMESTER FROM DT. 14.03.2022 TO 30.06.2022

PRACTICAL SUBJECT : LIFE SKILLS (PR-5)

CLASS ALLOTTED /WEEK:- 02 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
1	SOCIAL SKILL	MARCH	03	25.3.2022,
2	PROBLEM SOLVING	APRIL	03	8.4.2022, 22.4.2022
3	PRESENTATION SKILL	MAY	03	6.5.2022, 13.5.2022
4	GROUP DISCUSSION & INTERVIEW TECHNIQUES			20.5.2022, 27.5.2022.
5	WORKING IN TEAM	JUNE	01	3.6.2022, 10.6.2022
6	TASK MANAGEMENT			17.6.2022, 24.6.2022.
7				
8				
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