P.C.I.E.T., CHHENDIPADA, DIST- ANGUL				
THEORY LESSON PLAN FOR THE SESSION 2022 - 23				
BRANCH : ELECTRICAL ENGG. SEMESTER : 3RD, SECTION :- EA			NAME OF THE FACULTY : (1) KISHIRA MOHAN BEHERA (LECT. IN MATH.) (2) DR. BASANTA KUMAR SAHOO (DIRECTOR)	
SEMESTER FROM DT. 15.09.2022 TO 21.01.2023			THEORY SUBJECT : ENGINEERING MATHEMATICS-III (TH-1)	
CLASS ALLOTTED / WEEK: 04 PERIODS				
Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
1	**UNIT - 1 : Complex Numbers**	6	September	
	1.1 Real and Imaginary numbers.	1		Dt.15.09.2022
	1.2 Complex numbers, conjugate complex numbers, Modulus and Amplitude of a complex number.	1		Dt.19.09.2022
	1.3 Geometrical Representation of Complex Numbers.	1		Dt.20.09.2022
	1.4 Properties of Complex Numbers.	1		Dt.21.09.2022
	1.5 Determination of three cube roots of unity and their properties.	1		Dt.22.09.2022
	1.6 De Moivre's theorem	1		Dt.26.09.2022
2	**UNIT - 2 : Matrices**	4		
	2.1. Define rank of a matrix.	1		Dt.27.09.2022
	2.2. Perform elementary row transformations to determine the rank of a matrix.	1		Dt.28.09.2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	2.3. State Rouche's theorem for consistency of a system of linear equations in unknowns.	1		Dt - 29.09.2022
	2.4. Solve equations in three unknowns testing consistency.	1	October	Dt. 10.10.2022
3	**UNIT - 3 : Linear Differential Equations**	**10**		
	3.1. Define Homogeneous and Non – Homogeneous Linear Differential Equations with constant coefficients with examples.	1		Dt. 11.10.2022
	3.2. Find general solution of linear Differential Equations in terms of C.F. and P.I.	1		Dt. 12.10.2022
	3.3. Derive rules for finding C.F. And P.I. in terms of operator D, excluding.	1		Dt. 13.10.2022
	3.4. Define partial differential equation (P.D.E) .	1		Dt. 17.10.2022
	3.5. Form partial differential equations by eliminating arbitrary constants and arbitrary functions.	1		Dt. 18.10.2022
	3.6. Solve partial differential equations of the form Pp + Qq = R	1		Dt. 19.10.2022
	3.7. Solve problems on 3.1- 3.6	1		Dt. 20.10.2022
	3.7. Solve problems on 3.1- 3.6	1		Dt. 26.10.2022
	3.7. Solve problems on 3.1- 3.6	1		Dt. 27.10.2022
	3.7. Solve problems on 3.1- 3.6	1		Dt. 31.10.2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
4	**UNIT - 4 : Laplace Transforms**	12	November	
	4.1. Define Gamma function and and find .	1		Dt -01.11.2022
	4.2. Define Laplace Transform of a function and Inverse Laplace Transform .	1		Dt.02.11.2022
	4.3. Derive L.T. of standard functions and explain existence conditions of L.T.	1		Dt.03.11.2022
	4.4. Explain linear, shifting property of L.T.	1		Dt.07.11.2022
	4.5. Formulate L.T. of derivatives, integrals, multiplication by and division by .	1		Dt. 09.11.2022
	4.6. Derive formulae of inverse L.T. and explain method of partial fractions .	1		Dt. 10.11.2022
	4.7. solve problem on 4.1- 4.6	1		Dt. 14.11.2022
	4.7. solve problem on 4.1- 4.6	1		Dt. 15.11.2022
	4.7. solve problem on 4.1- 4.6	1		Dt. 16.11.2022
	4.7. solve problem on 4.1- 4.6	2		Dt. 17.11.2022, Dt-21.11.2022
	4.7. solve problem on 4.1- 4.6	1		Dt. 22.11.2022
	4.7. solve problem on 4.1- 4.6	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
	UNIT - 5 : Fourier Series	**12**		
	5.1. Define periodic functions.	1		Dt - 24.11.2022
	5.2. State Dirichlet's condition for the Fourier expansion of a function and it's convergence	1		Dt - 28.11.2022
	5.3. Express periodic function satisfying Dirichlet's conditions as a Fourier series.	1		Dt. 29.11.2022
	5.4. State Euler's formulae.	1		Dt. 30.11.2022
5	5.5. Define Even and Odd functions and find Fourier Series in	2	December	Dt - 1.12.2022, Dt. 5.12.2022
	5.6. Obtain F.S of continuous functions and functions having points of discontinuity	2		Dt. 6.12.2022, Dt. 7.12.2022
	5.7. Solve problems on 5.1 – 5.6	2		Dt. 8.12.2022, Dt. 12.12.2022
	5.7. Solve problems on 5.1 – 5.6	1		Dt. 13.12.2022
	5.7. Solve problems on 5.1 – 5.6	1		Dt. 14.12.2022
	5.7. Solve problems on 5.1 – 5.6	1		Dt. 15.12.2022
	UNIT - 6 : Numerical Methods	**4**		
6	6.1. Appraise limitation of analytical methods of solution of Algebraic Equations.	1		Dt. 19.12.2022
	6.2. Derive Iterative formula for finding the solutions of Algebraic Equations by :	1		Dt. 20.12.2022
	6.2.1. Bisection method	1		Dt. 21.12.2022
	6.2.2. Newton- Raphson method	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
7	**UNIT - 7 : Finite Difference and Interpolation**	**12**		
	7.1. Explain finite difference and form table of forward and backward difference.	1		Dt - 26.12.2022, Dt. 27.12.2022
	7.2. Define shift Operator and establish relation between & difference operator.	1		Dt. 28.12.2022, Dt. 29.12.2022
	7.3. Derive Newton's forward and backward interpolation formula for equal intervals.	1	January	Dt. 2.1.23 ,
	7.4. State Lagrange's interpretation formula for unequal intervals.	1		Dt. 3.1.23
	7.5. Explain numerical integration and state:	1		Dt. 5.1.2023, Dt- 9.1.2023
	7.5.1. Newton's Cote's formula.	1		Dt. 10.1.2023
	7.5.2. Trapezoidal rule.	1		Dt. 11.1.2023,
	7.5.3. Simpson's 1/3rd rule	1		Dt. 12.1.2023
	7.6. Solve problems on 7.1- 7.5	1		Dt. 16.1.2023
	7.6. Solve problems on 7.1- 7.5	1		Dt. 17.1.2023
	7.6. Solve problems on 7.1- 7.5	1		Dt. 18.1.2023
	7.6. Solve problems on 7.1- 7.5	1		Dt. 19.1.2023

SIGNATURE OF THE CONCERNED FACULTY

S. Pradhan
SIGNATURE OF THE H.O.D.

PRINCIPAL
P.C.I.E.T., CHHENDIPADA

PRINCIPAL
Uma Chandra Institute of Engineering & Technology
CHHENDIPADA, ANGUL

P.C.I.E.T., CHHENDIPADA, DIST- ANGUL				
THEORY LESSON PLAN FOR THE SESSION 2022 - 23				
BRANCH : ELECTRICAL ENGG. SEMESTER : 3RD SECTION :- EA			NAME OF THE FACULTY : (1) ER. SASWATI SANGHAMITRA PRADHAN, (2) ER. SAKTIDATTA PRADHAN (LECT. IN ELECT. ENGG.)	
SEMESTER FROM DT. 15.09.2022 TO 21.01.2023			THEORY SUBJECT : CIRCUIT & NETWORK THEORY (TH-2)	
CLASS ALLOTTED / WEEK: 04 PERIODS				
Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
1	**UNIT-1 : MAGNETIC CIRCUITS**	**7**	September	
	1.1 Introduction	1		Dt. 15.09.2022
	1.2 Magnetizing force, Intensity, MMF, flux and their relations	1		Dt. 16.09.2022
	1.3 Permeability, reluctance and permeance	1		Dt. 19.09.2022
	1.4 Analogy between electric and Magnetic Circuits	1		Dt. 20.09.2022
	1.5 B-H Curve	1		Dt. 21.09.2022
	1.6 Series & parallel magnetic circuit.	1		Dt. 22.09.2022
	1.7 Hysteresis loop	1		Dt. 23.09.2022
2	**UNIT-2 : COUPLED CIRCUITS**	**5**		
	2 .1 Self Inductance and Mutual Inductance 2 .2 Conductively coupled circuit and mutual impedance	1		Dt. 26.09.2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	2 .3 Dot convention	1		27.09.2022
	2.4 Coefficient of coupling	1		28.09.2022
	2 .5 Series and parallel connection of coupled inductors.	1		29.09.2022
	2 .6 Solve numerical problems	1		30.09.2022
3	**UNIT-3 : CIRCUIT ELEMENTS AND ANALYSIS**	**6**	October	
	3 .1 Active, Passive, Unilateral & bilateral, Linear & Non linear elements	1		Dt. 10.10.2022
	3.2 Mesh Analysis, Mesh Equations by inspection	1		Dt. 11.10.2022
	3.3 Super mesh Analysis	1		Dt. 12.10.2022
	3.4 Nodal Analysis, Nodal Equations by inspection	1		Dt. 13.10.2022
	3.5 Super node Analysis.	1		Dt. 14.10.2022
	3.6 Source Transformation Technique 3.7 Solve numerical problems (With Independent Sources Only)	1		Dt. 17.10.2022
4	**UNIT-4 : NETWORK THEOREMS**	**8**		
	4.1 Star to delta and delta to star transformation	1		Dt. 18.10.2022
	4.2 Super position Theorem	1		Dt. 19.10.2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	4.3 Thevenin's Theorem	1		Dt · 20 · 10 · 2022
	4.4 Norton's Theorem	1		Dt · 21 · 10 · 2022
	4.5 Maximum power Transfer Theorem.	1		Dt · 26 · 10 · 2022
	4.6 Solve numerical problems (With Independent Sources Only)	3		Dt · 27 · 10 · 2022, Dt · 28 · 10 · 2022, Dt · 31 · 10 · 2
5	**UNIT-5 : AC CIRCUIT AND RESONANCE**	**8**	November	
	5.1 A.C. through R-L, R-C & R-L-C Circuit	1		Dt. 01 · 11 · 2022
	5.2 Solution of problems of A.C. through R-L, R-C & R-L-C series Circuit by complex algebra method.	1		Dt. 02 · 11 · 2022
	5.3 Solution of problems of A.C. through R-L, R-C & R-L-C parallel & Composite Circuits	1		Dt · 03 · 11 · 2022
	5.4 Power factor & power triangle.	1		Dt · 04 · 11 · 2022
	5.5 Deduce expression for active, reactive, apparent power.	1		Dt · 07 · 11 · 2022
	5.6 Derive the resonant frequency of series resonance and parallel resonance circuit	1		Dt · 09 · 11 · 2022
	5.7 Define Bandwidth, Selectivity & Q-factor in series circuit.	1		Dt · 10 · 11 · 2022
	5.8 Solve numerical problems	1		Dt · 11 · 11 · 2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
6	**UNIT - 6 : POLYPHASE CIRCUIT**	6		
	6.1 Concept of poly-phase system and phase sequence	1		Dt . 14.11.2022
	6.2 Relation between phase and line quantities in star & delta connection	1		Dt . 15 . 11 . 2022
	6.3 Power equation in 3-phase balanced circuit.	1		Dt . 16 . 11 . 2022
	6.4 Solve numerical problems	1		Dt . 17 . 11 . 2022
	6.5 Measurement of 3-phase power by two wattmeter method.	1		Dt . 18 . 11 . 2022 , Dt . 21 . 11 . 2022
	6.6 Solve numerical problems.	1		Dt . 22 . 11 . 2022 ,
7	**UNIT - 7 : TRANSIENTS**	6		
	7.1 Steady state & transient state response.	2		Dt . 23 . 11 . 2022 , Dt . 24 . 11 . 2022
	7.2 Response to R-L, R-C & RLC circuit under DC condition.	2	December	Dt .01 . 12 . 2022 , Dt . 02 . 12 . 2022 , Dt . 03 . 12 . 22
	7.3 Solve numerical problems	2		Dt . 05 . 12 . 2022 , Dt .06 . 12 . 2022
8	**UNIT-8 : TWO-PORT NETWORK**	8		
	8.1 Open circuit impedance (z) parameters	1		Dt . 07 . 12 . 2022 , Dt . 08 . 12 . 2022
	8.2 Short circuit admittance (y) parameters	1		Dt . 09 . 12 . 2022 , Dt . 12 . 12 . 2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	8.3 Transmission (ABCD) parameters	1		Dt·13·12.22, Dt·14·12.2022, Dt.15.12.2022
	8.4 Hybrid (h) parameters.	1		Dt·16·12·2022, Dt·19·12·2022, Dt.20·12·2022
	8.5 Inter relationships of different parameters.	1		Dt·21·12·2022, Dt·22·12·2022, Dt·23·12.22
	8.6 T and π representation.	1		Dt·26·12·2022, Dt·27·12·22, Dt·28·12·22
	8.7 Solve numerical problems	1		Dt·29·12·2022, Dt·30·12·2022
9	**UNIT-9 : FILTERS**	**6**	January	
	9.1 Define filter 9.2 Classification of pass Band, stop Band and cut-off frequency. 9.3 Classification of filters.	1		Dt.02.01.2023, Dt·03.01.2023, Dt·04·01·2023
	9.4 Constant – K low pass filter.	1		Dt·05.01.2023, Dt·06.01.2023, Dt·09·1·2023
	9.5 Constant – K high pass filter.	1		Dt·10·01.23, Dt·11·01·2023, Dt·12·01·2023
	9.6 Constant – K Band pass filter.	1		Dt·13·01·2023, Dt·16.01·2023
	9.7 Constant – K Band elimination filter.	1		Dt·17.01.2023, Dt·18·01·2023
	9.8 Solve Numerical problems	1		Dt·19.01.2023, Dt.20·01·2023

SIGNATURE OF THE CONCERNED FACULTY

SIGNATURE OF THE H.O.D.

PRINCIPAL
P.C.I.E.T., CHHENDIPADA

PRINCIPAL
Purna Chandra Institute of Engineering & Technology
CHHENDIPADA

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

THEORY LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH : ELECTRICAL ENGG. SEMESTER : 3RD SECTION : EA	NAME OF THE FACULTY : (1) ER. ABINASH SAHOO, (LECT. IN MECH. ENGG.)
SEMESTER FROM DT. 15.09.2022 TO 21.01.2023	THEORY SUBJECT : ELEMENTS OF MECHANICAL 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	**UNIT-1 : THERMODYNAICS**	**6**	September	
	1.1 State Unit of Heat and work, 1st law of thermodynamics.	2		Dt.16.09.2022 , Dt.19.09.2022
	1.2 State Laws of perfect gases	2		Dt.21.09.2022, Dt.23.09.2022
	1.3 Determine relationship of specific heat of gases at constant volume and constant pressure.	2		Dt. 26.09.2022, Dt.28.09.2022
2	**UNIT-2 : PROPERTIES OF STEAM**	**5**		
	2 .1 Use steam table for solution of simple problem	2		Dt.30.09.2022
	2.2 Explain total heat of wet, dry and super heated steam	3	October	Dt.10.10.2022, Dt.12.10.2022, Dt.14.10.2022
3	**UNIT-3 : BOILERS**	**10**		
	3.1 State types of Boilers	3		Dt.17.10.2022 , Dt.19.10.2022, Dt.21.10.2022
	3.2 Describe Cochran, Babcock Wilcox boiler	3		Dt.26.10.2022, Dt.28.10.2022 , Dt.31.10.22
	3.3 Describe Mountings and accessories	4	November	Dt.02.11.2022 , Dt.4.11.2022, Dt.07.11.2022 Dt. 09.11.2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	UNIT-4 : STEAM ENGINES	**10**		
4	4.1 Explain the principle of Simple steam engine	2		Dt · 11.11.2022 , Dt · 14 · 11 · 2022
	4.2 Draw Indicator diagram	2		Dt · 16 · 11 · 2022 , Dt · 18 · 11 · 2022
	4.3 Calculate Mean effective pressure, IHP and BHP and mechanical efficiency.	2		Dt · 21 · 11 · 2022 , Dt · 23 · 11 · 2022
	4.4 Solve Simple problem.	4		Dt · 25 · 11 · 2022 , Dt · 28 · 11 · 2022 Dt · 30 · 11 · 2022
	UNIT-5 : STEAM TURBINES	**6**	December	
5	5.1 State Types	3		Dt.02 · 12 · 2022, Dt · 03.12 · 2022, Dt · 05.12.22
	5.2 Differentiate between impulse and reaction Turbine	3		Dt · 07.12.2022 , Dt · 09 · 12 · 2022, Dt · 10.12.22
	UNIT-6 : CONDENSER	**4**		
6	6.1 Explain the function of condenser	2		Dt.12.12.2022 , Dt · 14 · 12.2022
	6.2 State their types	2		Dt · 16 · 12 · 2022 , Dt · 17 · 12 · 2022
	UNIT-7 : I.C. ENGINE	**4**		
7	7.1 Explain working of two stroke and 4 stroke petrol and Diesel engines.	2		Dt · 19.12.2022 , Dt · 21 · 12 · 2022
	7.2 Differentiate between them	2		Dt · 23 · 12 · 2022 , Dt · 24 · 12 · 2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
8	**UNIT-8 : HYDROSTATICS**	5		
	8.1 Describe properties of fluid	2		Dt. 26.12.2022 , Dt. 28.12.2022
	8.2 Determine pressure at a point, pressure measuring	3		Dt. 30.12.2022 , Dt. 31.12.2022
9	**UNIT-9 : HYDROKINETICS**	5	January	
	9.1 Deduce equation of continuity of flow	2		Dt.02.01.2023 , Dt. 04.01.2023
	9.2 Explain energy of flowing liquid	1		Dt. 06.01.2023 . Dt. 07.01.2023
	9.3 State and explain Bernoulli's theorem	2		Dt. 09.01.2023 , Dt. 11.01.2023
10	**UNIT-10 : HYDRAULIC DEVICES AND PNEUMATICS**	5		
	10.1 Intensifier	1		Dt. 13.01.2023
	10.2 Hydraulic lift	2		Dt. 16.01.2023 , Dt. 18.01.2023
	10.3 Accumulator	1		Dt. 20.01.2023
	10.4 Hydraulic ram	1		Dt. 21.01.2023

Asahoo

SIGNATURE OF THE CONCERNED FACULTY

S. Pradhan

SIGNATURE OF THE H.O.D.

PRINCIPAL
P.C.I.E.T. CHHENDIPADA

PRINCIPAL
Purna Chandra Institute of Engineering & Technology
CHHENDIPADA, ANGUL

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

LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH : ELECTRICAL ENGG. SEMESTER : 3RD
SECTION : EA

NAME OF THE FACULTY : (1) ER. SAROJ KUMAR SAHU,
(2) ER. SUSHIL KUMAR MAJHI, (LECT. IN ELECT. ENGG.)

SEMESTER FROM DT. 15.09.2022 TO 21.01.2023

THEORY SUBJECT : ELECTRICAL ENGG. MATERIAL (TH-4)

CLASS ALLOTTED / WEEK: 04 PERIODS

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
1	**UNIT-1 : Conducting Materials**	16	September	
	1.1 Introduction	1		Dt - 15.09.2022
	1.2 Resistivity, factors affecting resistivity	2		Dt. 16.09.2022
	1.3 Classification of conducting materials into low-resistivity and high resistivity materials	2		Dt. 20.09.2022
	1.4 Low Resistivity Materials and their Applications. (Copper, Silver, Gold, Aluminum, Steel)	2		Dt. 21.09.2022
	1.5 Stranded conductors	2		Dt. 23.09.2022
	16 Bundled conductors	1		Dt. 27.09.2022
	1.7 Low resistivity copper alloys	1		Dt. 28.09.2022
	1.8 High Resistivity Materials and their Applications(Tungsten, Carbon, Platinum, Mercury)	2		Dt. 29.09.2022
	1.9 Superconductivity	1		Dt. 30.09.2022
	1.10 Superconducting materials	1	October	Dt. 11.10.2022
	1.11 Application of superconductor materials	1		Dt. 12.10.2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
2	**UNIT-2 : Semiconducting Materials**	**10**		
	2.1 Introduction,2 . 2 Semiconductors	1		Dt -13.10.2022
	2.3 Electron Energy and Energy Band Theory	1		Dt. 14.10.2022
	2.4 Excitation of Atoms	1		Dt. 18.10.2022
	2.5 Insulators, Semiconductors and Conductors, 2 . 6 Semiconductor Materials, 2 . 7 Covalent Bonds	1		Dt. 19.10.2022
	2 . 8 Intrinsic Semiconductors, 2.9 Extrinsic Semiconductors, 2 .10 N-Type Materials, 2 .11 P-Type Materials	1		Dt. 20.10.2022
	2.12 Minority and Majority Carriers	1		Dt. 21-10.2022
	2.13 Semi-Conductor Materials, 2.14 Applications of Semiconductor materials	1		Dt. 26-10-2022
	2.14.1 Rectifiers,2.14.2 Temperature-sensitive resisters or thermistors,2.14.3 Photoconductive cells	1		Dt. 27.10.2022
	2.14.4 Photovoltaic cells, 2.14.7 Hall effect generators	1		Dt. 28. 10.2022
	2.14.5 Varisters, 2.14.6 Transistors, 2.14.8 Solar Power	1	November	Dt. 1. 11. 2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
3	**Unit - 3 : Insulating Materials**	**9**		
	3 . 1 Introduction	1		Dt·02·11·2022
	3 . 2 General properties of Insulating Materials	1		Dt-03·11·2022
	3.2.1 Electrical properties	1		Dt·04·11·2022
	3.2.2 Visual properties	1		Dt·09·11·2022
	3.2.3 Mechanical properties	1		Dt·10·11·2022
	3.2.4 Thermal properties	1		Dt·11·11·2022
	3.2.5 Chemical properties	1		Dt·15·11·2022
	3.2.6 Ageing	1		Dt·17·11·2022
	3.3 Insulating Materials – Classification, properties, applications	1		Dt·18·11·2022
	3.3.1 Introduction	1		Dt·22·11·2022
	3.3.2 Classification of insulating materials on the basis physical	1		Dt·23·11·2022
	3.4 Insulating Gases	1		Dt·24·11·2022
	3.4.1 Introduction.	1		Dt·25·11·2022
	3.4.2 Commonly used insulating gases	1		Dt-29·11·2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
4	**Unit - 4 : Dielectric Materials**	8		
	4.1 Introduction	1		Dt. 30. 11. 2022
	4.2 Dielectric Constant of Permittivity	2	December	Dt. 01. 12. 2022, Dt. 02. 12. 2022
	4.3 Polarization	1		Dt. 06. 12. 2022
	4.4 Dielectric Loss	1		Dt. 07. 12. 2022
	4.5 Electric Conductivity of Dielectrics and their Break Down	1		Dt. 08. 12. 2022
	4.6 Properties of Dielectrics.	1		Dt. 09. 12. 2022
	4.7 Applications of Dielectrics.	1		Dt. 13. 12. 2022
5	**Unit- 5 : Magnetic Materials**	8		
	5.1 Introduction	1		Dt. 14. 12. 2022
	5.2 Classification	1		Dt. 15. 12. 2022
	5.2.1 Diamagnetism	1		Dt. 16. 12. 2022
	5.2.2 Para magnetism	1		Dt. 20. 12. 2022
	5.2.3 Ferromagnetism	1		Dt. 21. 12. 2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	5.3 Magnetization Curve	1		Dt. 22. 12. 2022
	5.4 Hysteresis	1		Dt. 23. 12. 2022
	5.5 Eddy Currents	1		Dt. 27. 12. 2022
	5.6 Curie Point	1		Dt. 28. 12. 2022
	5.7 Magneto-striction	1		Dt. 29. 12. 2022
	5.8 Soft and Hard magnetic Materials	1		Dt. 30. 12. 2022
	5.8.1 Soft magnetic materials	1	January	Dt. 03. 01. 2023
	5.8.2 Hard magnetic materials	1		Dt. 04. 01. 2023, 05. 01. 2023
6	**Unit - 6 : Materials for Special Purposes**	**9**		
	6.1 Introduction	1		Dt. 06. 01. 2023
	6.2 Structural Materials	1		Dt. 10. 01. 2023
	6.3 Protective Materials	1		Dt. 11. 01. 2023
	6.3.1 Lead	1		Dt. 12. 01. 2023
	6.3.2 Steel tapes, wires and strips	1		Dt. 13. 01. 2023

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	6.4 Other Materials	1		Dt. 13.01.2023
	6.4.1 Thermocouple materials	1		Dt. 17.01.2023
	6.4.2 Bimetals	1		Dt. 18.01.2023
	6.4.3 Soldering Materials	1		Dt. 19.01.2023
	6.4.4 Fuse and Fuse materials.	1		Dt. 19.01.2023
	6.4.5 Dehydrating material.	1		Dt. 20.01.2023

S.K. Sahu S.K. Majhi

SIGNATURE OF THE CONCERNED FACULTY

S. Pradhan

SIGNATURE OF THE H.O.D.

PRINCIPAL
P.C.I.E.T., CHHENDIPADA

PRINCIPAL
Purna Chandra Institute of Engineering & Technology
CHHENDIPADA, ANGUL

P.C.I.E.T., CHHENDIPADA, DIST- ANGUL				
THEORY LESSON PLAN FOR THE SESSION 2022 - 23				
BRANCH : ELECTRICAL ENGG. SEMESTER : 3RD SECTION : EA			NAME OF THE FACULTY : (1) ER. PRADYUMNA GARNAIK (LECT. IN ELECT. ENGG.)	
SEMESTER FROM DT. 15.09.2022 TO 21.01.2023			THEORY SUBJECT : ENVIRONMENTAL STUDIES (TH-5)	
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	**UNIT 1: THE MULTIDISCIPLINARY NATURE OF ENVIRONMENTAL STUDIES**	4	September	
	Definition	1		Dt. 15.09.2022
	Scope of Environment	1		Dt. 16.09.2022
	Importance of Environment	1		Dt. 19.09.2022
	Need for public awareness	1		Dt. 20.09.2022
2	**UNIT 2 : NATURAL RESOURCES**	10		
	Renewable and non renewable resources	1		Dt. 22.09.2022
	Natural resources and associated problems	1		Dt. 23.09.2022
	Forest resources: Use and over-exploitation, deforestation, case studies. Timber extraction mining, dams and their effects on forests and tribalpeople	1		Dt. 26.09.2022
	Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dam's benefits and problems	1		Dt. 27.09.2022
	Mineral Resources: Use and exploitation, environmental effects of extracting and using mineralresources.	1		Dt. 29.09.2022

S.No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	Food Resources: World food problems, changes caused by agriculture and over grazing, effects of modern agriculture, fertilizers- pesticides problems, water logging, salinity..	1		Dt. 30.09.2022
	Energy Resources: Growing energy need, renewable and non renewable energy sources, use of alternate energy sources, case studies.	1	October	Dt. 10.10.2022
	Land Resources: Land as a resource, land degradation, man induces landslides, soil erosion, anddesertification.	1		Dt. 11.10.2022
	Role of individual in conservation of natural resources.	1		Dt. 13.10.2022
	Equitable use of resources for sustainable life styles.	1		Dt. 14.10.2022
	Revision			Dt. 17.10.2022
3	**UNIT 3 : SYSTEMS**	**8**		
	Concept of an eco system.Structure and function of an eco system	1		Dt. 18.10.2022
	Producers, consumers,decomposers	1		Dt. 20.10.2022
	Energy flow in the eco systems	1		Dt. 21.10.2022
	Ecological succession	1		Dt. 27.10.2022
	Food chains, food webs and ecological pyramids	1		Dt. 28.10.2022
	Introduction, types, characteristic features	1	November	Dt. 02.11.2022
	structure and function of the Forest ecosystem	1		Dt. 03.11.2022
	structure and function of the Aquatic eco systems (ponds, streams, lakes,rivers, oceans, estuaries).	1		Dt. 04.11.2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
4	**UNIT 4 : BIODIVERSITY AND ITS CONSERVATION**	**8**		
	Introduction-Definition: genetics, species and ecosystem diversity	1		Dt. 07. 11. 2022
	Biogeographically classification of India	1		Dt. 08. 11. 2022
	Value of biodiversity: consumptive use	1		Dt. 10. 11. 2022
	Productive use, social , ethical, aesthetic and optinvalues	1		Dt. 11. 11. 2022
	Biodiversity at global, national and local level	1		Dt. 14. 11. 2022
	Threats to biodiversity: Habitats loss, poaching of wild life	1		Dt. 15. 11. 2022
	Man wildlife conflicts	1		Dt. 17. 11. 2022
	Class test	1		Dt. 18. 11. 2022
5	**UNIT 5 : ENVIRONMENTAL POLLUATION**	**12**		
	Definition Causes, effects and control measures of:Air pollution	1		Dt. 21. 11. 2022
	Water pollution	1		Dt. 22. 11. 2022
	Soil pollution	1		Dt. 24. 11. 2022
	Marine pollution	1		Dt. 25. 11. 2022
	Noise pollution	1	December	Dt. 01. 12. 2022
	Thermal pollution	1		Dt. 02. 12. 2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	Nuclear hazards	1		Dt. 05.12.2022
	Solid waste Management	1		Dt. 06. 12. 2022
	Causes, effects and control measures of urban and industrial wastes.	1		Dt. 08. 12. 2022
	Role of an individual in prevention of pollution	1		Dt. 09. 12. 2022
	Disaster management: Floods, earth quake			Dt. 12. 12. 2022
	Cyclone and landslides.	1		Dt. 13. 12. 2022
6	**UNIT 6 : SOCIAL ISSUES AND THE ENVIRONMENT**	**10**		
	Form unsustainable to sustainable development	1		Dt. 15. 12. 2022
	Urban problems related to energy	1		Dt. 16. 12. 2022
	Water conservation, rain water harvesting, water shed management	1		Dt. 19. 12. 2022
	Resettlement and rehabilitation of people; its problems and concern.	1		Dt. 20. 12. 2022
	Environmental ethics: issue and possible solutions.	1		Dt. 22. 12. 2022
	Climatechange, globalwarming,acidrain,ozonelayerdepletion	1		Dt. 23. 12. 2022, Dt. 26. 12. 2022
	Nuclear accidents and holocaust, case studies	1		Dt. 27. 12. 2022, Dt. 29. 12. 2022
	Air (prevention and control of pollution) Act.	1		Dt. 30. 12. 2022
	Water (prevention and control of pollution) Act.	1	January	Dt. 02. 01. 2023, Dt. 03. 01. 2023
	Public awareness.	1		Dt. 05. 01. 2023

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
7	**UNIT 7 : HUMAN POPULATION AND THE ENVIRONMENT**	8		
	Population growth and variation among nations	1		Dt.06.01.2023
	Population explosion- family welfare program	1		Dt.09.01.2023
	Environment and humanhealth	1		Dt.10.01.2023
	Human rights	1		Dt.12.01.2023
	Value education	1		Dt.13.01.2023
	Role of information technology in environment and human health	1		Dt.16.01.2023
	Revision	1		Dt.17.01.2023
	Class test	1		Dt.19.01.2023, Dt.20.01.2022

P. Garnaik

SIGNATURE OF THE CONCERNED FACULTY

S. Pradhan

SIGNATURE OF THE H.O.D.

PRINCIPAL
P.C.I.E.T., CHHENDIPADA

PRINCIPAL
Purna Chandra Institute of
Engineering & Technology
CHHENDIPADA, ANGUL

P.C.I.E.T., CHHENDIPADA, DIST- ANGUL				
THEORY LESSON PLAN FOR THE SESSION 2022 - 23				
BRANCH : ELECTRICAL ENGG. SEMESTER : 3RD, SECTION :- EB			NAME OF THE FACULTY : (1) KISHIRA MOHAN BEHERA (LECT. IN MATH.) (2) DR. BASANTA KUMAR SAHOO (DIRECTOR)	
SEMESTER FROM DT. 15.09.2022 TO 21.01.2023			THEORY SUBJECT : ENGINEERING MATHEMATICS-III (TH-1)	
CLASS ALLOTTED / WEEK: 04 PERIODS				
Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
1	**UNIT - 1 : Complex Numbers**	6	September	
	1.1 Real and Imaginary numbers.	1		Dt. 15.09.2022
	1.2 Complex numbers, conjugate complex numbers, Modulus and Amplitude of a complex number.	1		Dt. 19.09.2022
	1.3 Geometrical Representation of Complex Numbers.	1		Dt. 20.09.2022
	1.4 Properties of Complex Numbers.	1		Dt. 21.09.2022
	1.5 Determination of three cube roots of unity and their properties.	1		Dt. 22.09.2022
	1.6 De Moivre's theorem	1		Dt. 26.09.2022
2	**UNIT - 2 : Matrices**	4		
	2.1. Define rank of a matrix.	1		Dt. 27.09.2022
	2.2. Perform elementary row transformations to determine the rank of a matrix.	1		Dt. 28.09.2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	2.3. State Rouche's theorem for consistency of a system of linear equations in unknowns.	1		Dt. 29.09.2022
	2.4. Solve equations in three unknowns testing consistency.	1	octobere	Dt. 10.10.2022
3	**UNIT - 3 : Linear Differential Equations**	**10**		
	3.1. Define Homogeneous and Non – Homogeneous Linear Differential Equations with constant coefficients with examples.	1		Dt. 11.10.2022
	3.2. Find general solution of linear Differential Equations in terms of C.F. and P.I.	1		Dt. 12.10.2022
	3.3. Derive rules for finding C.F. And P.I. in terms of operator D, excluding.	1		Dt. 13.10.2022
	3.4. Define partial differential equation (P.D.E) .	1		Dt. 17.10.2022
	3.5. Form partial differential equations by eliminating arbitrary constants and arbitrary functions.	1		Dt. 18.10.2022
	3.6. Solve partial differential equations of the form Pp + Qq = R	1		Dt. 19.10.2022
	3.7. Solve problems on 3.1- 3.6	1		Dt. 20.10.2022
	3.7. Solve problems on 3.1- 3.6	1		Dt. 26.10.2022
	3.7. Solve problems on 3.1- 3.6	1		Dt. 27.10.2022
	3.7. Solve problems on 3.1- 3.6	1		Dt. 31.10.2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
4	**UNIT - 4 : Laplace Transforms**	**12**	November	
	4.1. Define Gamma function and and find .	1		Dt. 01. 11. 2022
	4.2. Define Laplace Transform of a function and Inverse Laplace Transform .	1		Dt. 02. 11. 2022
	4.3. Derive L.T. of standard functions and explain existence conditions of L.T.	1		Dt. 03. 11. 2022
	4.4. Explain linear, shifting property of L.T.	1		Dt. 07. 11. 2022
	4.5. Formulate L.T. of derivatives, integrals, multiplication by and division by .	1		Dt. 09. 11. 2022
	4.6. Derive formulae of inverse L.T. and explain method of partial fractions .	1		Dt. 10. 11. 2022
	4.7. solve problem on 4.1- 4.6	1		Dt. 14. 11. 2022
	4.7. solve problem on 4.1- 4.6	1		Dt. 15. 11. 2022
	4.7. solve problem on 4.1- 4.6	1		Dt. 16. 11. 2022
	4.7. solve problem on 4.1- 4.6	2		Dt. 17. 11. 2022, Dt. 21. 11. 2022
	4.7. solve problem on 4.1- 4.6	1		Dt. 22. 11. 2022
	4.7. solve problem on 4.1- 4.6	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
	UNIT - 5 : Fourier Series	**12**		
	5.1. Define periodic functions.	1		Dt. 24.11.2022
	5.2. State Dirichlet's condition for the Fourier expansion of a function and it's convergence	1		Dt. 28.11.2022
	5.3. Express periodic function satisfying Dirichlet's conditions as a Fourier series.	1		Dt. 29.11.2022
	5.4. State Euler's formulae.	1		Dt. 30.11.2022
5	5.5. Define Even and Odd functions and find Fourier Series in	2	December	Dt. 1.12.2022, Dt. 5.12.2022
	5.6. Obtain F.S of continuous functions and functions having points of discontinuity	2		Dt. 6.12.2022, Dt. 7.12.2022
	5.7. Solve problems on 5.1 – 5.6	2		Dt. 8.12.2022, Dt. 12.12.2022
	5.7. Solve problems on 5.1 – 5.6	1		Dt. 13.12.2022
	5.7. Solve problems on 5.1 – 5.6	1		Dt. 14.12.2022
	5.7. Solve problems on 5.1 – 5.6	1		Dt. 15.12.2022
	UNIT - 6 : Numerical Methods	**4**		
6	6.1. Appraise limitation of analytical methods of solution of Algebraic Equations.	1		Dt. 19.12.2022
	6.2. Derive Iterative formula for finding the solutions of Algebraic Equations by :	1		Dt. 20.12.2022
	6.2.1. Bisection method	1		Dt. 21.12.2022
	6.2.2. Newton- Raphson method	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
7	**UNIT - 7 : Finite Difference and Interpolation**	**12**		
	7.1. Explain finite difference and form table of forward and backward difference.	1		Dt·26·12·2022, Dt·27·12·2022
	7.2. Define shift Operator and establish relation between & difference operator.	1		Dt·28·12·2022, Dt·29·12·2022
	7.3. Derive Newton's forward and backward interpolation formula for equal intervals.	1	January	Dt·02·01·23
	7.4. State Lagrange's interpretation formula for unequal intervals.	1		Dt·03·01·23
	7.5. Explain numerical integration and state:	1		Dt·05·01·2023, Dt·09·01·2023
	7.5.1. Newton's Cote's formula.	1		Dt·10·01·2023
	7.5.2. Trapezoidal rule.	1		Dt·11·01·2023
	7.5.3. Simpson's 1/3rd rule	1		Dt·12·01·2023
	7.6. Solve problems on 7.1- 7.5	1		Dt·16·01·2023
	7.6. Solve problems on 7.1- 7.5	1		Dt·17·01·2023
	7.6. Solve problems on 7.1- 7.5	1		Dt·18·01·2023
	7.6. Solve problems on 7.1- 7.5	1		Dt·19·01·2023

SIGNATURE OF THE CONCERNED FACULTY

S. Pradhan

SIGNATURE OF THE H.O.D.

PRINCIPAL
P.C.I.E.T., CHHENDIPADA

PRINCIPAL
Puma Chandra Institute of
Engineering & Technology
CHHENDIPADA, ANGUL

P.C.I.E.T., CHHENDIPADA, DIST- ANGUL				
THEORY LESSON PLAN FOR THE SESSION 2022 - 23				
BRANCH : ELECTRICAL ENGG. SEMESTER : 3RD SECTION :- EB			NAME OF THE FACULTY : (1) ER. SASWATI SANGHAMITRA PRADHAN, (2) ER. SAKTIDATTA PRADHAN (LECT. IN ELECT. ENGG.)	
SEMESTER FROM DT. 15.09.2022 TO 21.01.2023			THEORY SUBJECT : CIRCUIT & NETWORK THEORY (TH-2)	
CLASS ALLOTTED / WEEK: 04 PERIODS				
Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
1	**UNIT-1 : MAGNETIC CIRCUITS**	**7**	September	
	1.1 Introduction	1		Dt. 15.09.2022
	1.2 Magnetizing force, Intensity, MMF, flux and their relations	1		Dt. 16.09.2022
	1.3 Permeability, reluctance and permeance	1		Dt. 19.09.2022
	1.4 Analogy between electric and Magnetic Circuits	1		Dt. 20.09.2022
	1.5 B-H Curve	1		Dt. 21.09.2022
	1.6 Series & parallel magnetic circuit.	1		Dt. 22.09.2022
	1.7 Hysteresis loop	1		Dt. 23.09.2022
2	**UNIT-2 : COUPLED CIRCUITS**	**5**		
	2 .1 Self Inductance and Mutual Inductance 2 .2 Conductively coupled circuit and mutual impedance	1		Dt. 26.09.2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	2 .3 Dot convention	1		27.09.2022
	2.4 Coefficient of coupling	1		28.09.2022
	2 .5 Series and parallel connection of coupled inductors.	1		29.09.2022
	2 .6 Solve numerical problems	1		30.09.2022
3	**UNIT-3 : CIRCUIT ELEMENTS AND ANALYSIS**	**6**	October	
	3 .1 Active, Passive, Unilateral & bilateral, Linear & Non linear elements	1		Dt. 10.10.2022
	3.2 Mesh Analysis, Mesh Equations by inspection	1		Dt. 11.10.2022
	3.3 Super mesh Analysis	1		Dt. 12.10.2022
	3.4 Nodal Analysis, Nodal Equations by inspection	1		Dt. 13.10.2022
	3.5 Super node Analysis.	1		Dt. 14.10.2022
	3.6 Source Transformation Technique 3.7 Solve numerical problems (With Independent Sources Only)	1		Dt. 17.10.2022
4	**UNIT-4 : NETWORK THEOREMS**	**8**		
	4.1 Star to delta and delta to star transformation	1		Dt. 18.10.2022
	4.2 Super position Theorem	1		Dt. 19.10.2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	4.3 Thevenin's Theorem	1		Dt · 20 · 10 · 2022
	4.4 Norton's Theorem	1		Dt · 21 · 10 · 2022
	4.5 Maximum power Transfer Theorem.	1		Dt · 26 · 10 · 2022
	4.6 Solve numerical problems (With Independent Sources Only)	3		Dt · 27 · 10 · 2022 , Dt · 28 · 10 · 2022, Dt · 31 · 10 · 22
5	**UNIT-5 : AC CIRCUIT AND RESONANCE**	**8**	November	
	5.1 A.C. through R-L, R-C & R-L-C Circuit	1		Dt · 01 · 11 · 2022
	5.2 Solution of problems of A.C. through R-L, R-C & R-L-C series Circuit by complex algebra method.	1		Dt · 02 · 11 · 2022
	5.3 Solution of problems of A.C. through R-L, R-C & R-L-C parallel & Composite Circuits	1		Dt · 03 · 11 · 2022
	5.4 Power factor & power triangle.	1		Dt · 04 · 11 · 2022
	5.5 Deduce expression for active, reactive, apparent power.	1		Dt · 07 · 11 · 2022
	5.6 Derive the resonant frequency of series resonance and parallel resonance circuit	1		Dt · 09 · 11 · 2022
	5.7 Define Bandwidth, Selectivity & Q-factor in series circuit.	1		Dt · 10 · 11 · 2022
	5.8 Solve numerical problems	1		Dt · 11 · 11 · 2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
6	**UNIT - 6 : POLYPHASE CIRCUIT**	**6**		
	6.1 Concept of poly-phase system and phase sequence	1		Dt · 14 · 11 · 2022
	6.2 Relation between phase and line quantities in star & delta connection	1		Dt · 15 · 11 · 2022
	6.3 Power equation in 3-phase balanced circuit.	1		Dt · 16 · 11 · 2022
	6.4 Solve numerical problems	1		Dt · 17 · 11 · 2022
	6.5 Measurement of 3-phase power by two wattmeter method.	1		Dt · 18 · 11 · 2022, Dt · 21 · 11 · 2022
	6.6 Solve numerical problems.	1		Dt · 22 · 11 · 2022
7	**UNIT - 7 : TRANSIENTS**	**6**		
	7.1 Steady state & transient state response.	2		Dt · 23 · 11 · 2022 , Dt · 24 · 11 · 2022
	7.2 Response to R-L, R-C & RLC circuit under DC condition.	2		Dt · 01 · 12 · 2022, Dt · 02 · 12 · 2022, Dt · 03 · 12 · 22
	7.3 Solve numerical problems	2		Dt · 05 · 12 · 2022 , Dt · 06 · 12 · 2022
8	**UNIT-8 : TWO-PORT NETWORK**	**8**		
	8.1 Open circuit impedance (z) parameters	1		Dt · 07 · 12 · 2022 , Dt · 08 · 12 · 2022
	8.2 Short circuit admittance (y) parameters	1		Dt · 09 · 12 · 2022 , Dt · 12 · 12 · 2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	8.3 Transmission (ABCD) parameters	1		Dt·13·12·2022, Dt·14·12·2022, Dt·15·12·2022
	8.4 Hybrid (h) parameters.	1		Dt·16·12·2022, Dt·19·12·2022, Dt·20·12·2022
	8.5 Inter relationships of different parameters.	1		Dt·21·12·2022, Dt·22·12·2022, Dt·28·12·22
	8.6 T and π representation.	1		Dt·26·12·2022, Dt·27·12·2022 Dt·28·12·2022
	8.7 Solve numerical problems	1		Dt·29·12·2022, Dt·30·12·2022
9	**UNIT-9 : FILTERS**	**6**	January	
	9.1 Define filter 9.2 Classification of pass Band, stop Band and cut-off frequency. 9.3 Classification of filters.	1		Dt·02·01·2023, Dt·03·01·2023 Dt·04·01·2023
	9.4 Constant – K low pass filter.	1		Dt·05·01·2023, Dt·06·01·2023, Dt·09·01·23
	9.5 Constant – K high pass filter.	1		Dt·10·01·2023, Dt·11·01·2023, Dt·12·01·2023
	9.6 Constant – K Band pass filter.	1		Dt·13·01·2023, Dt·16·01·2023
	9.7 Constant – K Band elimination filter.	1		Dt·17·01·2023, Dt·18·01·2023
	9.8 Solve Numerical problems	1		Dt·19·01·2023, Dt·20·01·2023

S.P.Pradhan

SIGNATURE OF THE CONCERNED FACULTY

S.Pradhan

SIGNATURE OF THE H.O.D.

PRINCIPAL
P.C.I.E.T., CHHENDIPADA

PRINCIPAL
Purna Chandra Institute of Engineering & Technology
CHHENDIPADA, ANGUL

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

THEORY LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH : ELECTRICAL ENGG. SEMESTER : 3RD **SECTION : EB**	**NAME OF THE FACULTY : (1) ER. ABINASH SAHOO,** **(LECT. IN MECH. ENGG.)**
SEMESTER FROM DT. 15.09.2022 TO 21.01.2023	**THEORY SUBJECT : ELEMENTS OF MECHANICAL 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	**UNIT-1 : THERMODYNAICS**	**6**	September	
	1.1 State Unit of Heat and work, 1st law of thermodynamics.	2		Dt. 16.09.2022 , Dt. 19.09.2022
	1.2 State Laws of perfect gases	2		Dt. 22.09.2022 , Dt. 23.09.2022
	1.3 Determine relationship of specific heat of gases at constant volume and constant pressure.	2		Dt. 26.09.2022 , Dt. 28.09.2022
2	**UNIT-2 : PROPERTIES OF STEAM**	**5**		
	2 .1 Use steam table for solution of simple problem	2		Dt. 30.09.2022
	2.2 Explain total heat of wet, dry and super heated steam	3	October	Dt. 10.10.2022 , Dt. 12.10.2022, Dt. 14.10.22
3	**UNIT-3 : BOILERS**	**10**		
	3.1 State types of Boilers	3		Dt. 17.10.2022 , Dt. 19.10.2022, Dt. 21.10.2022
	3.2 Describe Cochran, Babcock Wilcox boiler	3		Dt. 26.10.2022, Dt. 28.10.2022, Dt. 31.10.22
	3.3 Describe Mountings and accessories	4	November	Dt. 02.11.2022 , Dt. 4.11.2022 Dt. 07.11.2022 , Dt. 09.11.2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
4	**UNIT-4 : STEAM ENGINES**	**10**		
	4.1 Explain the principle of Simple steam engine	2		Dt·11·11·2022, Dt·14·11·2022
	4.2 Draw Indicator diagram	2		Dt·16·11·2022, Dt·18·11·2022
	4.3 Calculate Mean effective pressure, IHP and BHP and mechanical efficiency.	2		Dt·21·11·2022, Dt·23·11·2022
	4.4 Solve Simple problem.	4		Dt·25·11·2022, Dt·28·11·2022 Dt·30·11·2022
5	**UNIT-5 : STEAM TURBINES**	**6**	December	
	5.1 State Types	3		Dt·02·12·2022, Dt·03·12·2022 Dt·05·12·2022
	5.2 Differentiate between impulse and reaction Turbine	3		Dt·07·12·2022, Dt·09·12·2022 Dt·10·12·2022
6	**UNIT-6 : CONDENSER**	**4**		
	6.1 Explain the function of condenser	2		Dt·12·12·2022, Dt·14·12·2022
	6.2 State their types	2		Dt·16·12·2022, Dt·17·12·2022
7	**UNIT-7 : I.C. ENGINE**	**4**		
	7.1 Explain working of two stroke and 4 stroke petrol and Diesel engines.	2		Dt·19·12·2022, Dt·21·12·2022
	7.2 Differentiate between them	2		Dt·23·12·2022, Dt·24·12·2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
8	**UNIT-8 : HYDROSTATICS**	**5**		
	8.1 Describe properties of fluid	2		Dt. 26.12.2022, Dt. 28.12.2022
	8.2 Determine pressure at a point, pressure measuring	3		Dt. 30.12.2022 , Dt. 31.12.2022
9	**UNIT-9 : HYDROKINETICS**	**5**	January	
	9.1 Deduce equation of continuity of flow	2		Dt. 02.01.2023 , Dt. 04.01.2023
	9.2 Explain energy of flowing liquid	1		Dt. 06.01.2023 , Dt. 07.01.2023
	9.3 State and explain Bernoulli's theorem	2		Dt. 09.01.2023 , Dt. 11.01.2023
10	**UNIT-10 : HYDRAULIC DEVICES AND PNEUMATICS**	**5**		
	10.1 Intensifier	1		Dt. 13.01.2023
	10.2 Hydraulic lift	2		Dt. 16.01.2023 , Dt. 18.01.2023
	10.3 Accumulator	1		Dt. 20.01.2023
	10.4 Hydraulic ram	1		Dt. 21.01.2023

A. Sahoo

SIGNATURE OF THE CONCERNED FACULTY

S. Pradhan

SIGNATURE OF THE H.O.D.

PRINCIPAL
P.C.I.E.T., CHHENDIPADA

PRINCIPAL
Puma Chandra Institute of
Engineering & Technology
CHHENDIPADA, ANGUL

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

LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH : ELECTRICAL ENGG. SEMESTER : 3RD
SECTION : EB

NAME OF THE FACULTY : (1) ER. SAROJ KUMAR SAHU
(LECT. IN ELECT. ENGG.)

SEMESTER FROM DT. 15.09.2022 TO 21.01.2023

THEORY SUBJECT : ELECTRICAL ENGG. MATERIAL (TH-4)

CLASS ALLOTTED / WEEK: 04 PERIODS

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
1	**UNIT-1 : Conducting Materials**	16	September	
	1.1 Introduction	1		Dt. 15.09.2022
	1.2 Resistivity, factors affecting resistivity	2		Dt. 16.09.2022
	1.3 Classification of conducting materials into low-resistivity and high resistivity materials	2		Dt. 20.09.2022
	1.4 Low Resistivity Materials and their Applications. (Copper, Silver, Gold, Aluminum, Steel)	2		Dt. 21.09.2022
	1.5 Stranded conductors	2		Dt. 23.09.2022
	16 Bundled conductors	1		Dt. 27.09.2022
	1.7 Low resistivity copper alloys	1		Dt. 28.09.2022
	1.8 High Resistivity Materials and their Applications(Tungsten, Carbon, Platinum, Mercury)	2		Dt. 29.09.2022
	1.9 Superconductivity	1		Dt. 30.09.2022
	1.10 Superconducting materials	1	October	Dt. 11.10.2022
	1.11 Application of superconductor materials	1		Dt. 12.10.2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
2	**UNIT-2 : Semiconducting Materials**	**10**		
	2.1 Introduction,2 . 2 Semiconductors	1		Dt. 13.10.2022
	2.3 Electron Energy and Energy Band Theory	1		Dt. 14.10.2022
	2.4 Excitation of Atoms	1		Dt. 18.10.2022
	2.5 Insulators, Semiconductors and Conductors, 2 . 6 Semiconductor Materials, 2 . 7 Covalent Bonds	1		Dt. 19.10.2022
	2 . 8 Intrinsic Semiconductors, 2.9 Extrinsic Semiconductors, 2 .10 N-Type Materials, 2 .11 P-Type Materials	1		Dt. 20.10.2022
	2.12 Minority and Majority Carriers	1		Dt. 21.10.2022
	2.13 Semi-Conductor Materials, 2.14 Applications of Semiconductor materials	1		Dt. 26.10.2022
	2.14.1 Rectifiers,2.14.2 Temperature-sensitive resisters or thermistors,2.14.3 Photoconductive cells	1		Dt. 27.10.2022
	2.14.4 Photovoltaic cells, 2.14.7 Hall effect generators	1		Dt. 28.10.2022
	2.14.5 Varisters, 2.14.6 Transistors, 2.14.8 Solar Power	1	November	Dt. 1-11-2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
3	**Unit - 3 : Insulating Materials**	9		
	3 . 1 Introduction	1		Dt. 02.11.2022
	3 . 2 General properties of Insulating Materials	1		Dt. 03.11.2022
	3.2.1 Electrical properties	1		Dt. 04.11.2022
	3.2.2 Visual properties	1		Dt. 07.11.2022
	3.2.3 Mechanical properties	1		Dt. 10.11.2022
	3.2.4 Thermal properties	1		Dt. 11.11.2022
	3.2.5 Chemical properties	1		Dt. 15.11.2022
	3.2.6 Ageing	1		Dt. 17.11.2022
	3.3 Insulating Materials – Classification, properties, applications	1		Dt. 18.11.2022
	3.3.1 Introduction	1		Dt. 22.11.2022
	3.3.2 Classification of insulating materials on the basis physical	1		Dt. 23.11.2022
	3.4 Insulating Gases	1		Dt. 24.11.2022
	3.4.1 Introduction.	1		Dt. 25.11.2022
	3.4.2 Commonly used insulating gases	1		Dt. 29.11.2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
4	**Unit - 4 : Dielectric Materials**	**8**		
	4.1 Introduction	1		Dt. 30.11.2022
	4.2 Dielectric Constant of Permittivity	2	December	Dt. 01.12.2022, Dt. 02.12.2022
	4.3 Polarization	1		Dt. 06.12.2022
	4.4 Dielectric Loss	1		Dt. 07.12.2022
	4.5 Electric Conductivity of Dielectrics and their Break Down	1		Dt. 08.12.2022
	4.6 Properties of Dielectrics.	1		Dt. 09.12.2022
	4.7 Applications of Dielectrics.	1		Dt. 13.12.2022
5	**Unit- 5 : Magnetic Materials**	**8**		
	5.1 Introduction	1		Dt. 14.12.2022
	5.2 Classification	1		Dt. 15.12.2022
	5.2.1 Diamagnetism	1		Dt. 16.12.2022
	5.2.2 Para magnetism	1		Dt. 20.12.2022
	5.2.3 Ferromagnetism	1		Dt. 21.12.2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	5.3 Magnetization Curve	1		Dt · 22 · 12 · 2022
	5.4 Hysteresis	1		Dt · 23 · 12 · 2022
	5.5 Eddy Currents	1		Dt · 27 · 12 · 2022
	5.6 Curie Point	1		Dt · 28 · 12 · 2022
	5.7 Magneto-striction	1		Dt · 29 · 12 · 2022
	5.8 Soft and Hard magnetic Materials	1		Dt · 30 · 12 · 2022
	5.8.1 Soft magnetic materials	1	January	Dt · 03 · 01 · 2023
	5.8.2 Hard magnetic materials	1		Dt · 04 · 01 · 2023
6	**Unit - 6 : Materials for Special Purposes**	9		Dt · 05 · 01 · 2023
	6.1 Introduction	1		Dt · 06 · 01 · 2023
	6.2 Structural Materials	1		Dt · 10 · 01 · 2023
	6.3 Protective Materials	1		Dt · 11 · 01 · 2023
	6.3.1 Lead	1		Dt · 12 · 01 · 2023
	6.3.2 Steel tapes, wires and strips	1		Dt · 13 · 01 · 2023

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	6.4 Other Materials	1		Dt. 13.01.2023
	6.4.1 Thermocouple materials	1		Dt. 17.01.2023
	6.4.2 Bimetals	1		Dt. 18.01.2023
	6.4.3 Soldering Materials	1		Dt. 19.01.2023
	6.4.4 Fuse and Fuse materials.	1		Dt. 19.01.2023
	6.4.5 Dehydrating material.	1		Dt. 20.01.2023

S.K. Sahu S.K. Mahal

SIGNATURE OF THE CONCERNED FACULTY

S. Pradhan

SIGNATURE OF THE H.O.D.

PRINCIPAL
P.C.I.E.T., CHHENDIPADA

PRINCIPAL
Purna Chandra Institute of
Engineering & Technology
CHHENDIPADA, ANGUL

P.C.I.E.T., CHHENDIPADA, DIST- ANGUL				
THEORY LESSON PLAN FOR THE SESSION 2022 - 23				
BRANCH : ELECTRICAL ENGG. SEMESTER : 3RD SECTION : EB			NAME OF THE FACULTY : (1) ER. PRADYUMNA GARNAIK, (2) ER. SUSHIL SAHOO (LECT. IN ELECT. ENGG.)	
SEMESTER FROM DT. 15.09.2022 TO 21.01.2023			THEORY SUBJECT : ENVIRONMENTAL STUDIES (TH-5)	
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	**UNIT 1: THE MULTIDISCIPLINARY NATURE OF ENVIRONMENTAL STUDIES**	**4**	September	
	Definition	1		Dt. 15.09.2022
	Scope of Environment	1		Dt. 16.09.2022
	Importance of Environment	1		Dt. 19.09.2022
	Need for public awareness	1		Dt. 20.09.2022
2	**UNIT 2 : NATURAL RESOURCES**	**10**		
	Renewable and non renewable resources	1		Dt. 22.09.2022
	Natural resources and associated problems	1		Dt. 23.09.2022
	Forest resources: Use and over-exploitation, deforestation, case studies, Timber extraction mining, dams and their effects on forests and tribalpeople	1		Dt. 26.09.2022
	Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dam's benefits and problems	1		Dt. 27.09.2022
	Mineral Resources: Use and exploitation, environmental effects of extracting and using mineralresources.	1		Dt. 29.09.2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	Food Resources: World food problems, changes caused by agriculture and over grazing, effects of modern agriculture, fertilizers- pesticides problems, water logging, salinity,.	1		Dt. 30.09.2022
	Energy Resources: Growing energy need, renewable and non renewable energy sources, use of alternate energy sources, case studies.	1	October	Dt. 10.10.2022
	Land Resources: Land as a resource, land degradation, man induces landslides, soil erosion, anddesertification.	1		Dt. 11.10.2022
	Role of individual in conservation of natural resources.	1		Dt. 13.10.2022
	Equitable use of resources for sustainable life styles.	1		Dt. 14.10.2022
	Revision			Dt. 17.10.2022
3	**UNIT 3 : SYSTEMS**	**8**		
	Concept of an eco system.Structure and function of an eco system	1		Dt. 18.10.2022
	Producers, consumers,decomposers	1		Dt. 20.10.2022
	Energy flow in the eco systems	1		Dt. 21.10.2022
	Ecological succession	1		Dt. 27.10.2022
	Food chains, food webs and ecological pyramids	1		Dt. 28.10.2022
	Introduction, types, characteristic features	1	November	Dt. 02.11.2022
	structure and function of the Forest ecosystem	1		Dt. 03.11.2022
	structure and function of the Aquatic eco systems (ponds, streams, lakes,rivers, oceans, estuaries).	1		Dt. 04.11.2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
4	**UNIT 4 : BIODIVERSITY AND ITS CONSERVATION**	**8**		
	Introduction-Definition: genetics, species and ecosystem diversity	1		Dt·07·11·2022
	Biogeographically classification of India	1		Dt·08·11·2022
	Value of biodiversity: consumptive use	1		Dt·10·11·2022
	Productive use, social , ethical, aesthetic and optinvalues	1		Dt·11·11·2022
	Biodiversity at global, national and local level	1		Dt·14·11·2022
	Threats to biodiversity: Habitats loss, poaching of wild life	1		Dt·15·11·2022
	Man wildlife conflicts	1		Dt·17·11·2022
	Class test	1		Dt·18·11·2022
5	**UNIT 5 : ENVIRONMENTAL POLLUATION**	**12**		
	Definition Causes, effects and control measures of:Air pollution	1		Dt·21·11·2022
	Water pollution	1		Dt·22·11·2022
	Soil pollution	1		Dt·24·11·2022
	Marine pollution	1		Dt·25·11·2022
	Noise pollution	1	December	Dt·01·12·2022
	Thermal pollution	1		Dt·02·12·2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	Nuclear hazards	1		Dt. 05.12.2022
	Solid waste Management	1		Dt. 06.12.2022
	Causes, effects and control measures of urban and industrial wastes.	1		Dt. 08.12.2022
	Role of an individual in prevention of pollution	1		Dt. 09.12.2022
	Disaster management: Floods, earth quake			Dt. 12.12.2022
	Cyclone and landslides.	1		Dt. 13.12.2022
6	**UNIT 6 : SOCIAL ISSUES AND THE ENVIRONMENT**	**10**		
	Form unsustainable to sustainable development	1		Dt. 15.12.2022
	Urban problems related to energy	1		Dt. 16.12.2022
	Water conservation, rain water harvesting, water shed management	1		Dt. 19.12.2022
	Resettlement and rehabilitation of people; its problems and concern.	1		Dt. 20.12.2022
	Environmental ethics: issue and possible solutions.	1		Dt. 22.12.2022
	Climatechange, globalwarming,acidrain,ozonelayerdepletion	1		Dt. 23.12.2022, Dt. 26.12.2022
	Nuclear accidents and holocaust, case studies	1		Dt. 27.12.2022, Dt. 29.12.2022
	Air (prevention and control of pollution) Act.	1		Dt. 30.12.2022
	Water (prevention and control of pollution) Act.	1	January	Dt. 02.01.2023, Dt. 03.01.2023
	Public awareness.	1		Dt. 05.01.2023

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
7	**UNIT 7 : HUMAN POPULATION AND THE ENVIRONMENT**	8		
	Population growth and variation among nations	1		Dt · 06 · 01 · 2023
	Population explosion- family welfare program	1		Dt · 09 · 01 · 2023
	Environment and humanhealth	1		Dt · 10 · 01 · 2023
	Human rights	1		Dt · 12 · 01 · 2023
	Value education	1		Dt · 13 · 01 · 2023
	Role of information technology in environment and human health	1		Dt · 16 · 01 · 2023
	Revision	1		Dt · 17 · 01 · 2023
	Class test	1		Dt · 19 · 01 · 2023 , Dt · 20 · 01 · 2023

P. Gharnait S. Sahoo

SIGNATURE OF THE CONCERNED FACULTY

S. Pradhan

SIGNATURE OF THE H.O.D.

PRINCIPAL
P.C.I.E.T., CHHENDIPADA

PRINCIPAL
Purna Chandra Institute of
Engineering & Technology
CHHENDIPADA, ANGUL

P.C.I.E.T., CHHENDIPADA, DIST- ANGUL				
PRACTICAL LESSION PLAN FOR THE SESSION 2022-23				
BRANCH:-ELECTRICAL ENGG.		SEMESTER: 3RD		SECTION:- EA1
NAME OF THE FACULTY : (1) ER. ABINASH SAHOO (LECT. IN MECH. ENGG.)				
SEMESTER FROM DT.15.09.2022 TO 21.01.2023		PRACTICAL SUBJECT: MECHANICAL ENGINEERINGLABORATORY (PR-1)		
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
1	Determination of M.A,V.R and efficiency of screw Jack.	September	1	Dt. 19.09.2022
2	Determination of friction co-efficient of bearing.		1	Dt. 26.09.2022
3	Determination of Young's modulus by searle's apparatus.	October	1	Dt. 17.10.2022
4	Determination of M.A,V.R and efficiency of wheel train.		1	Dt. 31.10.2022
5	Determination of bending stress in beam using strain gauge.	November	1	Dt. 07.11.2022
6	Study of UTM and determination of tensile stress and Young's modulus of M.S specification.		1	Dt. 14.11.2022
(II)	HYDRAULICS & HYDRAULICS MACHINE LAB.			
7	Study of pressure measuring devices such as piezo-meter,simple manometer.		1	Dt. 21.11.2022
8	Study of Venturi-meter.		1	Dt. 28.11.2022
9	Verification of Bernouli's theorem.		1	Dt. 05.11.2022

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
10	Study the model of centrifugal pumps,Francis ,kaplan turbine & petton wheel.		1	Dt.12.12.2022
(III)	**HEAT ENGINE LAB.**			
11	Study of cochran boller .		2	Dt.29.12.2022, Dt.26.12.22
12	Study and demonstration of steam engine.		1	Dt.02.01.2023
13	Study and demonstration of Disel engine.		1	Dt.09.01.2023
14	Study and demonstration of petrol engine.		1	Dt.16.01.2023

Asahoo

SIGNATURE OF THE CONCERNED FACULTY

S.Pradhan

SIGNATURE OF THE H.O.D.

PRINCIPAL
P.C.I.E.T.,CHHENDIPADA

PRINCIPAL
Purna Chandra Institute of
Engineering & Technology
CHHENDIPADA, ANGUL

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

PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-ELECTRICAL ENGG. **SEMESTER: 3RD** **SECTION : EA1**

NAME OF THE FACULTY : (1) ER. DEBABRATA DIBYARANJAN, (2) ER. SAKTIDATTA PRADHAN (LECT. IN ELECT. ENGG.)

SEMESTER FROM DT.15.09.2022 TO 21.01.2023 **PRACTICAL SUBJECT:CIRCUIT AND SIMULATION LAB (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	Measurment of equivalent resistance in series and parallel circuit.	September	3	Dt·16·09·2022, Dt·22·09·2022 Dt·23·09·2022
2	Measurment of power and power factor using series R-L-C load.		2	Dt·29·09·2022, Dt·30·09·2022
3	Verification of KCL and KVL.	October	3	Dt·13·10·2022, Dt·19·10·2022 Dt·20·10·2022
4	Verification of super position theorem.		3	Dt·21·10·2022, Dt·27·10·2022 Dt·28·10·2022
5	Verification of Thevenin's theorem.	November	4	Dt·03·11·2022, Dt·04·11·2022 Dt·10·11·2022, Dt·11·11·2022
6	Verification of Norton's theorem.		4	Dt·17·11·2022, Dt·18·11·2022 Dt·24·11·2022, Dt·25·11·2022
7	Verification of maximum power transfer theorem.	December	4	Dt·01·12·2022, Dt·02·12·2022 Dt·08·12·2022, Dt·09·12·2022
8	Determine resonant frequency of series R-L-C circuit.		4	Dt·15·12·2022, Dt·16·12·2022 Dt·22·12·2022, Dt·23·12·2022

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
9	Study of low pass filter and determination of cut-off frequency.		2	Dt. 29.12.2022, Dt. 30.12.2022
10	Study of high pass filter and determination of cut-off frequency.	January	2	Dt. 05. 01.2023, Dt. 06. 01. 2023
11	Analyze the charging and discharging of R-C & R-L circuit with oscilloscope and compute the time constant from the tabulated data & determine the rise time.		2	Dt. 12. 01. 2023, Dt. 13.01.2023
12	Construct the superposition theorem,series resonance and R-L-C circuit using P-spice /MAT LAB software and compare the wave forms.		2	Dt. 19. 01. 2023, Dt. 20. 01. 2023

SIGNATURE OF THE CONCERNED FACULTY

S. Pradhan
SIGNATURE OF THE H.O.D.

PRINCIPAL
P.C.I.E.T., CHHENDIPADA

PRINCIPAL
Purna Chandra Institute of
Engineering & Technology
CHHENDIPADA, ANGUL

P.C.I.E.T., CHHENDIPADA, DIST- ANGUL				
PRACTICAL LESSION PLAN FOR THE SESSION 2022 - 23				
BRANCH:-ELECTRICAL ENGG.		SEMESTER: 3RD		SECTION : EA1
NAME OF THE FACULTY : (1) ER. GOURI SANKAR PRADHAN (LECT. IN MECH. ENGG.), (2) ER. GOBINDA BARIK (T.A., MECH. ENGG.), (3) KRUSHNA CHANDRA SAHU, (4) BHIMASEN ROUT (WORKSHOP INSTRUCTOR)				
SEMESTER FROM DT.15.09.2022 TO 21.01.2023			PRACTICAL SUBJECT: MECHANICAL WORKSHOP PRACTICE (PR-3)	
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
(I)	CARPENTRY	September		
1	Study about the carpentry tools and uses.		4	Dt·20·09·2022, Dt·21·09·2022 Dt·27·09·2022, Dt·28·09·2022
2	Different operations like sawing ,planning ,chiseling is to be done.	October	5	Dt·11·10·2022, Dt·12·10·2022 Dt·18·10·22 Dt·19·10·2022, Dt·26·10·2022
3	Learn to measure and marking on carpentry.	November	6	Dt·01·11·2022, Dt·02·11·22, Dt·09·11·22 Dt·15·11·2022, Dt·16·11·22, Dt·23·11·22
4	Study of different types of timbers used by carpenters ,substitutions of timbers.		3	Dt·23·11·2022, Dt·29·11·2022 Dt·30·11·2022
5	Jobs on carpentry like slot Notch,Mortise and tenon joint is to be done.	December	4	Dt·6·12·2022, Dt·07·12·2022, Dt·13·12·2022 Dt·14·12·2022
(II)	TURNINGS			
6	Study of S.C lathes and their accessories,practice in lathe work involving various operations such as plane turning,tapper turning,knuckling and external V. Threading.		4	Dt·20·12·2022, Dt·21·12·2022 Dt·27·12·2022, Dt·28·12·2022
7	A turning job is to be done.	January	6	Dt·3·01·2023, Dt·04·01·2023 Dt·10·1·23 Dt·11·01·23, Dt·17·01·23, Dt·18·01·23

G Pradhan EA K.C Sahu BA

SIGNATURE OF THE CONCERNED FACULTY

S. Pradhan

SIGNATURE OF THE H.O.D.

PRINCIPAL
P.C.I.E.T., CHHENDIPADA

PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:- ELECTRICAL ENGG. SEMESTER: 3RD SECTION:- EA1

NAME OF THE FACULTY : (1) ER. DEBABRATA DIBYARANJAN (LECT. IN ELECT. 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
1.	Library tasks & reading books	September	1	Dt-24.09.2022
2.	Reasoning & Aptitude class	October	3	Dt.15.10.2022, Dt.22.10.2022 Dt.29.10.2022
3.	Mock Peresonal Interview & Group dIScussIon	November	4	Dt.5.11.2022, Dt.12.11.2022 Dt.19.11.2022, Dt.26.11.2022
4.	Stage Presentatoons, Hold a competetion	December	2	Dt.03.12.2022, Dt.10.12.2022
5.	Gameby Learning		2	Dt. 17.12.2022, Dt-24.12.2022
6.	Seminars on dIfferent topics	January	3	Dt. 07.01.2023, Dt.21.01.2023 Dt.28.01.2023

DD

SIGNATURE OF THE CONCERNED FACULTY

S.Pradhan

SIGNATURE OF THE H.O.D.

PRINCIPAL
P.C.I.E.T., CHHENDIPADA

PRINCIPAL
Purna Chandra Institute of Engineering & Technology
CHHENDIPADA, ANGUL

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

PRACTICAL LESSION PLAN FOR THE SESSION 2022-23

BRANCH:-ELECTRICAL ENGG. SEMESTER: 3RD SECTION:- EA2

NAME OF THE FACULTY : (1) ER. ABINASH SAHOO (LECT. IN MECH. ENGG.)

SEMESTER FROM DT.15.09.2022 TO 21.01.2023 PRACTICAL SUBJECT: MECHANICAL ENGINEERINGLABORATORY (PR-1)

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	Determination of M.A,V.R and efficiency of screw Jack.	September	1	Dt. 22.09.2022
2	Determination of friction co-efficient of bearing.		1	Dt. 29.09.2022
3	Determination of Young's modulus by searle's apparatus.	October	2	Dt. 13.10.2022, Dt. 20.10.22
4	Determination of M.A,V.R and efficiency of wheel train.		1	Dt. 27.10.2022
5	Determination of bending stress in beam using strain gauge.	November	2	Dt. 03.11.2022, Dt. 10.11.22
6	Study of UTM and determination of tensile stress and Young's modulus of M.S specification.		1	Dt. 17.11.2022
(II)	**HYDRAULICS & HYDRAULICS MACHINE LAB.**			
7	Study of pressure measuring devices such as piezo-meter,simple manometer.		1	Dt. 24.11.2023
8	Study of Venturi-meter.	December	1	Dt. 01.12.2022
9	Verification of Bernouli's theorem.		2	Dt. 08.12.2022, Dt. 15.12.22

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
10	Study the model of centrifugal pumps,Francis ,kaplan turbine & petton wheel.		2	Dt.22.12.2022, Dt. 29.12.2022
(III)	HEAT ENGINE LAB.	January		
11	Study of cochran boiler .		1	Dt. 05.01.2023
12	Study and demonstration of steam engine.		1	Dt.12.01.2023
13	Study and demonstration of Disel engine.		1	Dt. 19.01.2023
14	Study and demonstration of petrol engine.		1	Dt. 19.01.2023

SIGNATURE OF THE CONCERNED FACULTY

SIGNATURE OF THE H.O.D.

PRINCIPAL
P.C.I.E.T.,CHHENDIPADA

PRINCIPAL
Purna Chandra Institute of
Engineering & Technology
CHHENDIPADA, ANGUL

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

PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-ELECTRICAL ENGG. **SEMESTER: 3RD** **SECTION : EA2**

NAME OF THE FACULTY : (1) ER. DEBABRATA DIBYARANJAN, (2) ER. SAKTIDATTA PRADHAN (LECT. IN ELECT. ENGG.)

SEMESTER FROM DT.15.09.2022 TO 21.01.2023 **PRACTICAL SUBJECT:CIRCUIT AND SIMULATION LAB (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	Measurment of equivalent resistance in series and parallel circuit.	September	2	Dt. 20.09.2022, Dt. 21.09.2022
2	Measurment of power and power factor using series R-L-C load.		2	Dt. 27.09.2022, Dt. 28.09.2022
3	Verification of KCL and KVL.	October	2	Dt. 11.10.2022, Dt. 12.10.2022
4	Verification of super position theorem.		2	Dt. 18.10.2022, Dt. 26.10.2022
5	Verification of Thevenin's theorem.	November	3	Dt. 09.11.2022, Dt. 15.11.2022 Dt. 16.11.2022
6	Verification of Norton's theorem.		4	Dt. 22.11.2022, Dt. 23.11.2022 Dt. 29.11.2022, Dt. 30.11.2022
7	Verification of maximum power transfer theorem.	December	3	Dt. 06.12.2022, Dt. 07.12.2022 Dt. 13.12.2022
8	Determine resonant frequency of series R-L-C circuit.		4	Dt. 20.12.2022, Dt. 21.12.2022 Dt. 27.12.2022, Dt. 28.12.2022

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
9	Study of low pass filter and determination of cut-off frequency.	January	2	Dt.03.01.2023, Dt.04.01.2023
10	Study of high pass filter and determination of cut-off frequency.		2	Dt.10.01.2023, Dt.11.01.2023
11	Analyze the charging and discharging of R-C & R-L circuit with oscilloscope and compute the time constant from the tabulated data & determine the rise time.		1	Dt. 17.01.2023
12	Construct the superposition theorem,series resonance and R-L-C circuit using P-spice /MAT LAB software and compare the wave forms.		1	Dt. 18.01.2023

SIGNATURE OF THE CONCERNED FACULTY

S. Pradhan

SIGNATURE OF THE H.O.D.

PRINCIPAL
P.C.I.E.T., CHHENDIPADA

PRINCIPAL
Purna Chandra Institute of
Engineering & Technology
CHHENDIPADA, ANGUL

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

PRACTICAL LESSION PLAN FOR THE SESSION 2022 - 23

BRANCH:-ELECTRICAL ENGG. **SEMESTER: 3RD** **SECTION : EA2**

NAME OF THE FACULTY : (1) ER. GOURI SANKAR PRADHAN (LECT. IN MECH. ENGG.), (2) ER. GOBINDA BARIK (T.A., MECH. ENGG.), (3) KRUSHNA CHANDRA SAHU, (4) BHIMASEN ROUT (WORKSHOP INSTRUCTOR)

SEMESTER FROM DT.15.09.2022 TO 21.01.2023 **PRACTICAL SUBJECT: MECHANICAL WORKSHOP PRACTICE (PR-3)**

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
(I)	CARPENTRY	September		
1	Study about the carpentry tools and uses.		4	Dt·16·09·2022, Dt·19·09·2022, Dt·23·9·22 Dt·26·09·2022, Dt·30·09·2022
2	Different operations like sawing ,planning ,chiseling is to be done.	October	4	Dt·19·10·2022, Dt·17·10·2022 Dt·21·10·2022, Dt·28·10·2022
3	Learn to measure and marking on carpentry.	November	4	Dt·01·11·2022, Dt·07·11·2022 Dt·11·11·2022, Dt·19·11·2022
4	Study of different types of timbers used by carpenters ,substitutions of timbers.		4	Dt·18·11·2022, Dt·21·11·2022 Dt·25·11·2022, Dt·28·11·2022
5	Jobs on carpentry like slot Notch,Mortise and tenon joint is to be done.	December	5	Dt·02·12·2022, Dt·05·12·2022 Dt·9·12·2022, Dt·12·12·2022, Dt·16·12·22
(II)	TURNINGS			
6	Study of S.C lathes and their accessories,practice in lathe work involving various operations such as plane turning,tapper turning,knuckling and external V. Threading.		4	Dt·19·12·2022, Dt·23·12·2022 Dt·26·12·2022, Dt·30·12·2022
7	A turning job is to be done.	January	6	Dt·02·01·23, Dt·06·01·23, Dt·09·01·23 Dt·13·01·23, Dt·16·01·23, Dt·20·01·23

G Pradhan G B K C Sahu
SIGNATURE OF THE CONCERNED FACULTY

S.Pradhan
SIGNATURE OF THE H.O.D.

PRINCIPAL
P.C.I.E.T., CHHENDIPADA

PRINCIPAL
Purna Chandra Institute of Engineering & Technology
CHHENDIPADA, ANGUL

PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:- ELECTRICAL ENGG. SEMESTER: 3RD SECTION:- EA2

NAME OF THE FACULTY : (1) ER. DEBABRATA DIBYARANJAN (LECT. IN ELECT. 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
1	Library tasks & reading books	September	1	21 - 24.09.2022
2	Reasoning & Aptitude class	October	3	Dt. 15.10.2022, Dt. 22.10.2022 Dt. 29.10.2022
3	Mock personal Interview & Group discussion	November	4	Dt. 5.11.2022, Dt. 12.11.2022 Dt. 19.11.2022, Dt. 26.11.2022
4	Stage presentations, Hold a competition	December	4	Dt. 3.12.2022, Dt. 10.12.2022 Dt. 17.12.2022, Dt. 24.12.2022
5	Gamify learning	January	2	Dt. 07.01.2023, Dt. 21.01.23
6	Seminars on different topics		1	Dt. 28.01.2023

DD

SIGNATURE OF THE CONCERNED FACULTY

S. Pradhan

SIGNATURE OF THE H.O.D.

PRINCIPAL
P.C.I.E.T., CHHENDIPADA

PRINCIPAL
Purna Chandra Institute of Engineering & Technology
CHHENDIPADA, ANGUL

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

PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-ELECTRICAL ENGG. **SEMESTER: 3RD** **SECTION : EB1**

NAME OF THE FACULTY : (1)ER. ABINASH SAHOO, (2) ER. SHUBHAM PRADHAN (LECT. IN MECH. ENGG.), (3) ER. BISHNU CHARANA BEHERA (TA.A., MECH. ENGG.)

SEMESTER FROM DT.15.09.2022 TO 21.01.2023 **PRACTICAL SUBJECT: MECHANICAL ENGINEERING LABORATORY (PR-1)**

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
(I)	**APPLIED MECHANICS & MATERIAL TESTING**	September		
1	Determination of M.A,V.R and efficiency of screw Jack.		1	Dt. 19.09.2022
2	Determination of friction co-efficient of bearing.		1	Dt. 26.09.2022
3	Determination of Young's modulus by searle's apparatus.	octobere	1	Dt. 10.10.2022
4	Determination of M.A,V.R and efficiency of wheel train.		1	Dt. 17.10.2022
5	Determination of bending stress in beam using strain gauge.		1	Dt. 19.10.2022
6	Study of UTM and determination of tensile stress and Young's modulus of M.S specification.		1	Dt. 26.10.2022
(II)	**HYDRAULICS & HYDRAULICS MACHINE LAB.**	November		
7	Study of pressure measuring devices such as piezo-meter,simple manometer.		1	Dt. 07.11.2022
8	Study of Venturi-meter.		2	Dt. 14.11.2022, Dt. 21.11.2022
9	Verification of Bernouli's theorem.		1	Dt. 28.11.2022

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
10	Study the model of centrifugal pumps,Francis ,kaplan turbine & petton wheel.	December	2	Dt·05·12·2022, Dt·12.12.2022
(III)	**HEAT ENGINE LAB.**			
11	Study of cochran boiler .		2	Dt·19·12.2022, Dt-26.12.2022
12	Study and demonstration of steam engine.	January	1	Dt. 02. 01. 2023
13	Study and demonstration of Disel engine.		1	Dt. 09. 01. 2023
14	Study and demonstration of petrol engine.		1	Dt. 16. 01. 2023

SIGNATURE OF THE CONCERNED FACULTY

S. Pradhan
SIGNATURE OF THE H.O.D.

PRINCIPAL
P.C.I.E.T., CHHENDIPADA

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

PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-ELECTRICAL ENGG. **SEMESTER: 3RD** **SECTION : EB1**

NAME OF THE FACULTY : (1) ER. DEBABRATA DIBYARANJAN, (2) ER. SAKTIDATTA PRADHAN (LECT. IN ELECT. ENGG.)

SEMESTER FROM DT.15.09.2022 TO 21.01.2023 **PRACTICAL SUBJECT:CIRCUIT AND SIMULATION LAB (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	Measurment of equivalent resistance in series and parallel circuit.	September	3	Dt·16·09·2022, Dt·21·09·2022 Dt. 23·09·2022
2	Measurment of power and power factor using series R-L-C load.		2	Dt·28·09·2022, Dt·30.09.22
3	Verification of KCL and KVL.	October	3	Dt. 12.10·2022, Dt·14.10·2022 Dt.19·10·2022
4	Verification of super position theorem.		3	Dt·21·10·2022, Dt·26·10·2022 Dt·28·10·2022.
5	Verification of Thevenin's theorem.	November	4	Dt·02·11·2022, Dt·04·11.22 Dt·09·11·2022, Dt·11·11·2022
6	Verification of Norton's theorem.		4	Dt·16·11·2022, Dt·18·11·2022 Dt·23·11·2022, Dt·25·11·22
7	Verification of maximum power transfer theorem.	December	3	Dt·02·12·2022, Dt·07·12·22 Dt·09·12·2022
8	Determine resonant frequency of series R-L-C circuit.		3	Dt·14·12·2022, Dt·16·12·2022 Dt·21·12·2022

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
9	Study of low pass filter and determination of cut-off frequency.		3	Dt. 23.12.2022, Dt. 28.12.2022 Dt. 30.12.2022
10	Study of high pass filter and determination of cut-off frequency.	January	2	Dt. 09.01.2023, Dt. 06.01.2023
11	Analyze the charging and discharging of R-C & R-L circuit with oscilloscope and compute the time constant from the tabulated data & determine the rise time.		2	Dt. 11.01.2023, Dt. 13.01.2023
12	Construct the superposition theorem, series resonance and R-L-C circuit using P-spice /MAT LAB software and compare the wave forms.		2	Dt. 18.01.2023, Dt. 20.01.2023

SIGNATURE OF THE CONCERNED FACULTY

S. Pradhan
SIGNATURE OF THE H.O.D.

PRINCIPAL
P.C.I.E.T., CHHENDIPADA

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

PRACTICAL LESSION PLAN FOR THE SESSION 2022 - 23

BRANCH:-ELECTRICAL ENGG. SEMESTER: 3RD SECTION : EB1

NAME OF THE FACULTY : (1) ER. GOURI SANKAR PRADHAN, (LECT. IN MECH. ENGG.), (2) ER. GOBINDA BARIK (T.A., MECH. ENGG.), (3) KRUSHNA CH. SAHU, BHIMASEN ROUT (WORKSHOP INSTRUCTOR)

SEMESTER FROM DT.15.09.2022 TO 21.01.2023 PRACTICAL SUBJECT: MECHANICAL WORKSHOP PRACTICE (PR-3)

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
(I)	CARPENTRY	September		
1	Study about the carpentry tools and uses.		4	Dt. 20.09.2022, Dt. 22.09.2022, Dt. 27.09.2022, Dt. 29.09.2022
2	Different operations like sawing ,planning ,chiseling is to be done.	October	2	Dt. 27.10.2022, Dt. 29.10.2022
3	Learn to measure and marking on carpentry.	October	3	Dt. 18.10.2022, Dt. 20.10.2022 Dt. 27.10.2022
4	Study of different types of timbers used by carpenters ,substitutions of timbers.	November	4	Dt. 01.11.2022, Dt. 03.11.2022 Dt. 10.11.2022, Dt. 15.11.2022
5	Jobs on carpentry like slot Notch,Mortise and tenon joint is to be done.	November	4	Dt. 17.11.2022, Dt. 23.11.2022 Dt. 24.11.2022, 29.11.2022
(II)	TURNINGS			
6	Study of S.C lathes and their accessories,practice in lathe work involving various operations such as plane turning,tapper turning,knuckling and external V. Threading.	December	7	Dt. 1.12.2022, Dt. 06.12.2022 Dt. 08.12.2022, Dt. 13.12.2022 Dt. 15.12.2022, Dt. 20.12.22, Dt. 22.12.22
7	A turning job is to be done.	January	5	Dt. 29.01.2023, Dt. 5.01.2023 Dt. 10.01.2023, Dt. 12.01.2022, Dt. 17.01.22

SIGNATURE OF THE CONCERNED FACULTY

SIGNATURE OF THE H.O.D.

PRINCIPAL
P.C.I.E.T., CHHENDIPADA

PRINCIPAL
Prime Chandra Institute of Engineering & Technology
CHHENDIPADA, ANGUL

PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23			
BRANCH:- ELECTRICAL ENGG.	SEMESTER: 3RD		SECTION:- EB1
NAME OF THE FACULTY : (1) ER. SAROJ KUMAR SAHOO (LECT. IN ELECT. 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
1.	Library tasks & reading books	September	1	Dt. 24.09.2022
2.	Reasoning & Aptitude class	october	2	Dt. 22.10.2022, Dt. 29.10.2022
3.	Mock Personal Interview & Group discussion	November	4	Dt. 05.11.2022, Dt. 12.11.2022 Dt. 19.11.2022, Dt. 26.11.2022
4.	Stage Presentations, Hold a-Competetation	December	4	Dt. 03.12.2022, Dt. 10.12.2022 Dt. 17.12.2022, Dt. 24.12.2022
5.	Gamiby Learning	January	2	Dt. 07.01.2023 Dt. 21.01.2023
6.	Semenars on different topics		1	Dt. 28.01.2023

S.K. Sahoo

SIGNATURE OF THE CONCERNED FACULTY

S. Pradhan

SIGNATURE OF THE H.O.D.

PRINCIPAL
P.C.I.E.T., CHHENDIPADA

Pama Chandra Institute of Engineering & Technology
CHHENDIPADA, ANGUL

P.C.I.E.T., CHHENDIPADA, DIST- ANGUL				
PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23				
BRANCH:-ELECTRICAL ENGG.		SEMESTER: 3RD		SECTION : EB2
NAME OF THE FACULTY : (1)ER. ABINASH SAHOO, (2) ER. SHUBHAM PRADHAN (LECT. IN MECH. ENGG.), (3) ER. BISHNU CHARANA BEHERA (T.A., MECH. ENGG.)				
SEMESTER FROM DT.15.09.2022 TO 21.01.2023		PRACTICAL SUBJECT: MECHANICAL ENGINEERING LABORATORY (PR-1)		
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
(I)	APPLIED MECHANICS & MATERIAL TESTING	September		
1	Determination of M.A,V.R and efficiency of screw Jack.		1	Dt. 19.09.2022
2	Determination of friction co-efficient of bearing.		1	Dt. 21.09.2022
3	Determination of Young's modulus by searle's apparatus.		2	Dt. 26.09.2022, Dt. 28.09.2022
4	Determination of M.A,V.R and efficiency of wheel train.	October	1	Dt. 14.10.2022
5	Determination of bending stress in beam using strain gauge.		1	Dt. 21.10.2022
6	Study of UTM and determination of tensile stress and Young's modulus of M.S specification.		1	Dt. 28.10.2022
(II)	HYDRAULICS & HYDRAULICS MACHINE LAB.	November		
7	Study of pressure measuring devices such as piezo-meter,simple manometer.		2	Dt. 04.11.2022, Dt. 11.11.2022
8	Study of Venturi-meter.		1	Dt. 18.11.2022
9	Verification of Bernoull's theorem.		1	Dt. 25.11.2022

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
10	Study the model of centrifugal pumps,Francis ,kaplan turbine & petton wheel.	December	2	Dt.02.12.2022, Dt.09.12.2022
(III)	**HEAT ENGINE LAB.**			
11	Study of cochran boiler .		2	Dt.16.12.2022, Dt.23.12.2022
12	Study and demonstration of steam engine.		1	Dt.30.12.2022
13	Study and demonstration of Disel engine.	January	1	Dt.06.01.2023
14	Study and demonstration of petrol engine.		2	Dt.13.01.2023 Dt.20.01.2023

Asha S. Pradhan
SIGNATURE OF THE CONCERNED FACULTY

S. Pradhan
SIGNATURE OF THE H.O.D.

PRINCIPAL
P.C.I.E.T., CHHENDIPADA

PRINCIPAL
Purna Chandra Institute of
Engineering & Technology
CHHENDIPADA, ANGUL

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

PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-ELECTRICAL ENGG. SEMESTER: 3RD SECTION : EB2

NAME OF THE FACULTY : (1) ER. DEBABRATA DIBYARANJAN, (2) ER. SAKTIDATTA PRADHAN (LECT. IN ELECT. ENGG.)

SEMESTER FROM DT.15.09.2022 TO 21.01.2023 PRACTICAL SUBJECT:CIRCUIT AND SIMULATION LAB (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	Measurment of equivalent resistance in series and parallel circuit.	September	4	Dt·20·09·2022, Dt·22.09·2022 Dt·27·09·2022, Dt·29·09·2022
2	Measurment of power and power factor using series R-L-C load.	October	3	Dt·11·10·2022, Dt·13·10·2022 Dt·18·10·2022
3	Verification of KCL and KVL.		2	Dt·20·10·2022, Dt·27·10·22
4	Verification of super position theorem.	November	4	Dt·01·11·2022, Dt·03·11·2022 Dt·08·11·2022, Dt·10·11·2022
5	Verification of Thevenin's theorem.		3	Dt·15·11·2022, Dt·17·11·2022 Dt·22·11·2022.
6	Verification of Norton's theorem.		2	Dt·24·11·2022, Dt·29·11·2022
7	Verification of maximum power transfer theorem.	December	4	Dt·01·12·2022, Dt·06·12·2022 Dt·08·12·2022. Dt·13·12·2022
8	Determine resonant frequency of series R-L-C circuit.		3	Dt·15·12·2022, Dt·20·12·2022 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
9	Study of low pass filter and determination of cut-off frequency.		2	Dt.27.12.2022, Dt.29.12.2022
10	Study of high pass filter and determination of cut-off frequency.	January	2	Dt.03.01.2023, Dt.05.01.2023
11	Analyze the charging and discharging of R-C & R-L circuit with oscilloscope and compute the time constant from the tabulated data & determine the rise time.		3	Dt.10.01.2023, Dt.12.01.2023 Dt.17.01.2023
12	Construct the superposition theorem,series resonance and R-L-C circuit using P-spice /MAT LAB software and compare the wave forms.		2	Dt.19.01.2023, Dt.21.01.2023

SIGNATURE OF THE CONCERNED FACULTY

S. Pradhan

SIGNATURE OF THE H.O.D.

PRINCIPAL
P.C.I.E.T., CHHENDIPADA

PRINCIPAL
Purna Chandra Institute of
Engineering & Techno
CHHENDIPADA, AN

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

PRACTICAL LESSION PLAN FOR THE SESSION 2022 - 23

BRANCH:-ELECTRICAL ENGG. SEMESTER: 3RD SECTION : EB2

NAME OF THE FACULTY : (1) ER. GOURI SANKAR PRADHAN, (LECT. IN MECH. ENGG.), (2) ER. GOBINDA BARIK (T.A., MECH. ENGG.), (3) KRUSHNA CH. SAHU, BHIMASEN ROUT (WORKSHOP INSTRUCTOR)

SEMESTER FROM DT.15.09.2022 TO 21.01.2023 PRACTICAL SUBJECT: MECHANICAL WORKSHOP PRACTICE (PR-3)

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
(I)	CARPENTRY	September		
1	Study about the carpentry tools and uses.		4	Dt·19·09·2022, Dt·21·09·2022 Dt·26·09·2022, Dt·28·09·2022
2	Different operations like sawing ,planning ,chiseling is to be done.	October	6	Dt·10·10·22, Dt·12·10·22, Dt·17·10·2022 Dt·19·10·2022, Dt·26·10·22, Dt·31·10·22
3	Learn to measure and marking on carpentry.	November	5	Dt·02·11·2022, Dt·07·11·22, Dt·9·11·2022 Dt·14·11·2022, Dt·16·11·2022
4	Study of different types of timbers used by carpenters ,substitutions of timbers.		4	Dt·21·11·2022, Dt·23·11·2022 Dt·25·11·2022, Dt·30·11·2022
5	Jobs on carpentry like slot Notch,Mortise and tenon joint is to be done.	December	4	Dt·5·12·2022, Dt·7·12·2022 Dt·12·12·2022, Dt·14·12·2022
(II)	TURNINGS			
6	Study of S.C lathes and their accessories,practice in lathe work involving various operations such as plane turning,tapper turning,knuckling and external V. Threading.		4	Dt·19·12·2022, Dt·21·12·2022 Dt·26·12·2022, Dt·28·12·2022
7	A turning job is to be done.	January	6	Dt·2·01·23, Dt·4·01·23, Dt·9·01·23 Dt·11·01·23, Dt·16·01·23, Dt·18·01·23

Gpradhan GP KC Sahu BR

SIGNATURE OF THE CONCERNED FACULTY

S. Pradhan

SIGNATURE OF THE H.O.D.

PRINCIPAL
P.C.I.E.T., CHHENDIPADA

PRINCIPAL
Purna Chandra Institute of Engineering & Technology
CHHENDIPADA, ANGUL

PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:- ELECTRICAL ENGG. SEMESTER: 3RD SECTION:- EB2

NAME OF THE FACULTY : (1) ER. SAROJ KUMAR SAHOO (LECT. IN ELECT. 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
1.	Library tasks & reading books	September	1	Dt. 29.09.2022
2.	Reasoning & Aptitude Class	October	2	Dt. 22.10.2022, Dt. 29.10.2022
3.	Mock personal Interview & Group discussion	November	4	Dt. 05.11.2022, Dt. 12.11.2022 Dt. 19.11.2022, Dt. 26.11.2022
4.	Stage presentations, Hold a competetation	December	4	Dt. 03.12.2022, Dt. 10.12.2022 Dt. 17.12.2022, Dt. 24.12.22
5.	Gamiby Learning	January	2	Dt. 07.01.2023 Dt. 21.01.2023
6.	Seminars on different topics		1	Dt. 28.01.2023

S. K. Sahoo
SIGNATURE OF THE CONCERNED FACULTY

S. Pradhan
SIGNATURE OF THE H.O.D.

PRINCIPAL
P.C.I.E.T., CHHENDIPADA

PRINCIPAL
Purna Chandra Institute of Engineering & Technology
CHHENDIPADA, ANGUL