P.C.I.E.T., CHHENDIPADA, DIST- ANGUL				
THEORY LESSON PLAN FOR THE SESSION 2023 - 24				
BRANCH : ELECTRICAL ENGG. SEMESTER : 3RD, SECTION :- EA			NAME OF THE FACULTY : (1) KISHIRA MOHAN BEHERA, (2) SAROJ KUMAR SAHOO (LECT. IN MATH.)	
SEMESTER FROM DT. 01.08.2023 TO 09.12.2023			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**	August 2023	
	1.1 Real and Imaginary numbers.	1		Dt. 1.08.2023
	1.2 Complex numbers, conjugate complex numbers, Modulus and Amplitude of a complex number.	1		Dt. 2.08.2023
	1.3 Geometrical Representation of Complex Numbers.	1		Dt. 3.08.2023
	1.4 Properties of Complex Numbers.	1		Dt. 4.08.2023, Dt. 8.08.2023
	1.5 Determination of three cube roots of unity and their properties.	1		Dt. 9.08.2023, Dt. 10.08.2023
	1.6 De Moivre's theorem	1		Dt. 11.08.2023, Dt. 16.08.2023
2	**UNIT - 2 : Matrices**	**4**		Dt. 17.08.2023, Dt - 18.08.2023
	2.1. Define rank of a matrix.	1		Dt. 22.08.2023, Dt. 23.08.2023
	2.2. Perform elementary row transformations to determine the rank of a matrix.	1		Dt. 24.08.2023, Dt. 25.08.2023

SI. 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. 29.08.2023,
	2.4. Solve equations in three unknowns testing consistency.	1		Dt. 31.08.2023
3	**UNIT - 3 : Linear Differential Equations**	**10**	SEPTEMBER	
	3.1. Define Homogeneous and Non – Homogeneous Linear Differential Equations with constant coefficients with examples.	1		Dt. 1.09.2023
	3.2. Find general solution of linear Differential Equations in terms of C.F. and P.I.	1		Dt. 5,09.2023, Dt. 7.09.2025
	3.3. Derive rules for finding C.F. And P.I. in terms of operator D, excluding.	1		Dt. 8.09.2023, Dt. 12.09.2023
	3.4. Define partial differential equation (P.D.E) .	1		Dt. 13.09.2023, Dt. 14.09.2023
	3.5. Form partial differential equations by eliminating arbitrary constants and arbitrary functions.	1		Dt. 15.09.2023, Dt. 21.09.2023
	3.6. Solve partial differential equations of the form Pp + Qq = R	1		Dt. 22.09.2023
	3.7. Solve problems on 3.1- 3.6	1		Dt. 26.09.2023
	3.7. Solve problems on 3.1- 3.6	1		Dt. 27.09.2023
	3.7. Solve problems on 3.1- 3.6	1		Dt. 28.09.2023
	3.7. Solve problems on 3.1- 3.6	1	OCTOBER	Dt. 3.10.2023

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**		
	4.1. Define Gamma function and and find .	1		Dt. 04.10.2023
	4.2. Define Laplace Transform of a function and Inverse Laplace Transform .	1		Dt. 05.10.2023
	4.3. Derive L.T. of standard functions and explain existence conditions of L.T.	1		Dt. 06.10.2023
	4.4. Explain linear, shifting property of L.T.	1		Dt. 10.10.2023
	4.5. Formulate L.T. of derivatives, integrals, multiplication by and division by .	1		Dt. 11.10.2023
	4.6. Derive formulae of inverse L.T. and explain method of partial fractions .	1		Dt. 12.10.2023
	4.7. solve problem on 4.1- 4.6	1		Dt. 13.10.2023
	4.7. solve problem on 4.1- 4.6	1		Dt. 17.10.2023
	4.7. solve problem on 4.1- 4.6	1		Dt. 18.10.2023
	4.7. solve problem on 4.1- 4.6	2		Dt. 19.10.2023
	4.7. solve problem on 4.1- 4.6	1		Dt. 20.10.2023
	4.7. solve problem on 4.1- 4.6	1		Dt. 25.10.2023

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. 26.10.2023
	5.2. State Dirichlet's condition for the Fourier expansion of a function and it's convergence	1		Dt. 27.10.2023
	5.3. Express periodic function satisfying Dirichlet's conditions as a Fourier series.	1		Dt. 31.10.2023
	5.4. State Euler's formulae.	1	NOVEMBER	Dt. 1.11.2023
5	5.5. Define Even and Odd functions and find Fourier Series in	2		Dt. 2.11.2023, Dt. 3.11.2023
	5.6. Obtain F.S of continuous functions and functions having points of discontinuity	2		Dt. 7.11.2023, Dt. 8.11.2023
	5.7. Solve problems on 5.1 – 5.6	2		Dt. 9.11.2023, Dt. 10.11.2023
	5.7. Solve problems on 5.1 – 5.6	1		Dt. 14.11.2023
	5.7. Solve problems on 5.1 – 5.6	1		Dt. 15.11.2023
	5.7. Solve problems on 5.1 – 5.6	1		Dt. 16.11.2023
	UNIT - 6 : Numerical Methods	**4**		
6	6.1. Appraise limitation of analytical methods of solution of Algebraic Equations.	1		Dt. 17.11.2023
	6.2. Derive Iterative formula for finding the solutions of Algebraic Equations by :	1		Dt. 21.11.2023
	6.2.1. Bisection method	1		Dt. 22.11.2023
	6.2.2. Newton- Raphson method	1		Dt. 23.11.2023, Dt. 24.11.2023

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. 28.11.2023
	7.2. Define shift Operator and establish relation between & difference operator.	1		Dt. 29.11.2023
	7.3. Derive Newton's forward and backward interpolation formula for equal intervals.	1		Dt. 30.11.2023
	7.4. State Lagrange's interpretation formula for unequal intervals.	1	DECEMBER	
	7.5. Explain numerical integration and state:	1		Dt. 01.12.2023
	7.5.1. Newton's Cote's formula.	1		Dt. 01.12.2023
	7.5.2. Trapezoidal rule.	1		Dt. 02.12.2023
	7.5.3. Simpson's 1/3rd rule	1		Dt. 02.12.2023
	7.6. Solve problems on 7.1- 7.5	1		Dt. 05.12.2023
	7.6. Solve problems on 7.1- 7.5	1		Dt. 06.12.2023
	7.6. Solve problems on 7.1- 7.5	1		Dt. 07.12.2023
	7.6. Solve problems on 7.1- 7.5	1		Dt. 08.12.2023

K.M.B SKS

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 2023 - 24

BRANCH : ELECTRICAL ENGG. SEMESTER : 3RD **SECTION :- EA**	**NAME OF THE FACULTY : (1) ER. SASWATI SANGHAMITRA PRADHAN, (2) ER. SAKTIDATTA PRADHAN, (3) ER. BIBHUTI BHUSAN SAHU** **(LECT. IN ELECT. ENGG.)**
SEMESTER FROM DT. 01.08.2023 TO 09.12.2023	**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**	AUGUST	Dt- 01.08.2023, Dt. 02.08.2023
	1.1 Introduction	1		Dt- 03.08.2023, Dt. 04.08.2023
	1.2 Magnetizing force, Intensity, MMF, flux and their relations	1		Dt- 07.08.2023, Dt. 08.08.2023
	1.3 Permeability, reluctance and permeance	1		Dt. 09.08.2023, Dt. 10.08.2023
	1.4 Analogy between electric and Magnetic Circuits	1		Dt. 11.08.2023, Dt. 14,08.2023
	1.5 B-H Curve	1		Dt. 16.08.2023, Dt. 17.08.2023
	1.6 Series & parallel magnetic circuit.	1		Dt. 18.08.2023, Dt. 21.08.2023
	1.7 Hysteresis loop	1		Dt. 22.08.2023, Dt. 23.08.2024
2	**UNIT-2 : COUPLED CIRCUITS**	**5**		
	2 .1 Self Inductance and Mutual Inductance 2 .2 Conductively coupled circuit and mutual impedance	1		Dt. 24.08.2023, Dt. 25.08.2023

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		Dt. 28.08.2023. Dt. 29.08.2023
	2.4 Coefficient of coupling	1		Dt. 30.08.2023.
	2 .5 Series and parallel connection of coupled inductors.	1	SEPTEMBER	Dt. 01.09.2023, Dt. 04.09.2023
	2 .6 Solve numerical problems	1		Dt. 05.09.2023 , Dt. 07.09.2023
3	**UNIT-3 : CIRCUIT ELEMENTS AND ANALYSIS**	**6**		Dt. 08.09.2023 , Dt. 11.09.2023
	3 .1 Active, Passive, Unilateral & bilateral, Linear & Non linear elements	1		Dt. 12.09.2023 , Dt. 13.09.2023
	3.2 Mesh Analysis, Mesh Equations by inspection	1		Dt. 14.09.2023 , Dt. 15.09.2023
	3.3 Super mesh Analysis	1		Dt. 18.09.2023, Dt. 21.09.2023
	3.4 Nodal Analysis, Nodal Equations by inspection	1		Dt. 22.09.2023, Dt. 25.09.2023
	3.5 Super node Analysis.	1		Dt. 26.09.2023. Dt. 27.09.2023
	3.6 Source Transformation Technique 3.7 Solve numerical problems (With Independent Sources Only)	1		Dt. 28.09.2023.
4	**UNIT-4 : NETWORK THEOREMS**	**8**	OCTOBER	
	4.1 Star to delta and delta to star transformation	1		Dt. 03.10.2023,
	4.2 Super position Theorem	1		Dt. 04.10.2023

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.05.10.2023, Dt.06.10.2023
	4.4 Norton's Theorem	1		Dt.09.10.2023
	4.5 Maximum power Transfer Theorem.	1		Dt.10.10.2023, Dt.11.10.2023
	4.6 Solve numerical problems (With Independent Sources Only)	3		Dt.12.10.2023, Dt.13.10.2023
5	**UNIT-5 : AC CIRCUIT AND RESONANCE**	**8**		
	5.1 A.C. through R-L, R-C & R-L-C Circuit	1		Dt.16.10.2023, Dt.17.10.2023
	5.2 Solution of problems of A.C. through R-L, R-C & R-L-C series Circuit by complex algebra method.	1		Dt.18.10.2023, Dt.19.10.2023
	5.3 Solution of problems of A.C. through R-L, R-C & R-L-C parallel & Composite Circuits	1		Dt.20.10.2023, Dt.25.10.2023
	5.4 Power factor & power triangle.	1		Dt.26.10.2023
	5.5 Deduce expression for active, reactive, apparent power.	1		Dt.27.10.2023
	5.6 Derive the resonant frequency of series resonance and parallel resonance circuit	1		Dt.30.10.2023
	5.7 Define Bandwidth, Selectivity & Q-factor in series circuit.	1		Dt.31.10.2023
	5.8 Solve numerical problems	1	NOVEMBER	Dt.01.11.2023, Dt.02.11.2023

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·03·11·2023, Dt·04·11·2023
	6.2 Relation between phase and line quantities in star & delta connection	1		Dt·06·11·2023, Dt·07·11·2023
	6.3 Power equation in 3-phase balanced circuit.	1		Dt·08·11·2023, Dt·09·11·2023
	6.4 Solve numerical problems	1		Dt·10·11·2023, Dt·13·11·2023
	6.5 Measurement of 3-phase power by two wattmeter method.	1		Dt·14·11·2023, Dt·15·11·2023
	6.6 Solve numerical problems.	1		Dt·16·11·2023, Dt·17·11·2023
7	**UNIT - 7 : TRANSIENTS**	**6**		[illegible]
	7.1 Steady state & transient state response.	2		Dt·20·11·2023, Dt·21·11·2023 Dt·22·11·2023
	7.2 Response to R-L, R-C & RLC circuit under DC condition.	2		Dt·23·11·2023
	7.3 Solve numerical problems	2		Dt·24·11·2023
8	**UNIT-8 : TWO-PORT NETWORK**	**8**		[illegible]
	8.1 Open circuit impedance (z) parameters	1		Dt·28·11·2023,
	8.2 Short circuit admittance (y) parameters	1		Dt·29·11·2023

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. 30.11.2023
	8.4 Hybrid (h) parameters.	1	DECEMBER	
	8.5 Inter relationships of different parameters.	1		Dt. 01.12.2023
	8.6 T and π representation.	1		Dt. 01.12.2023
	8.7 Solve numerical problems	1		Dt. 02.12.2023
9	**UNIT-9 : FILTERS**	**6**		
	9.1 Define filter 9.2 Classification of pass Band, stop Band and cut-off frequency. 9.3 Classification of filters.	1		Dt. 04.12.2023
	9.4 Constant – K low pass filter.	1		Dt. 05.12.2023
	9.5 Constant – K high pass filter.	1		Dt. 06.12.2023
	9.6 Constant – K Band pass filter.	1		Dt. 07.12.2023
	9.7 Constant – K Band elimination filter.	1		Dt. 07.12.2023
	9.8 Solve Numerical problems	1		Dt. 08.12.2023.

SSP SP B.B.S

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 2023 - 24

BRANCH : ELECTRICAL ENGG. SEMESTER : 3RD **SECTION : EA**	**NAME OF THE FACULTY : (1) ER. KAMALAKANTA TRIPATHY,** **(2) ER. SHUBHAM PRADHAN** **(LECT. IN MECH. ENGG.)**
SEMESTER FROM DT. 01.08.2023 TO 09.12.2023	**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**	AUGUST	
	1.1 State Unit of Heat and work, 1st law of thermodynamics.	2		Dt.02.08.2023, Dt.04.08.2023
	1.2 State Laws of perfect gases	2		Dt.05.08.2023, Dt.07.08.2023
	1.3 Determine relationship of specific heat of gases at constant volume and constant pressure.	2		Dt.09.08.2023, Dt.11.08.2023
2	**UNIT-2 : PROPERTIES OF STEAM**	**5**		
	2 .1 Use steam table for solution of simple problem	2		Dt. 14.08.2023, Dt. 16.08.2023
	2.2 Explain total heat of wet, dry and super heated steam	3		Dt. 18.08.2023, Dt. 19.08.2023
3	**UNIT-3 : BOILERS**	**10**		
	3.1 State types of Boilers	3		Dt. 21.08.2023, Dt. 23.08.2023
	3.2 Describe Cochran, Babcock Wilcox boiler	3		Dt. 25.08.2023, Dt. 28.08.2023
	3.3 Describe Mountings and accessories	4	SEPTEMBER	Dt. 01.09.2023, Dt.02.09.2023

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.04.09.2023, Dt.08.09.2023. Dt.11.09.2023
	4.2 Draw Indicator diagram	2		Dt.13.09.2023, Dt.15.09.2023, Dt.16.09.2023
	4.3 Calculate Mean effective pressure, IHP and BHP and mechanical efficiency.	2		Dt.18.09.2023, Dt.22.09.2023, Dt.25.09.2023
	4.4 Solve Simple problem.	4		Dt.27.09.2023, Dt.30.09.2023,
5	**UNIT-5 : STEAM TURBINES**	**6**	OCTOBER	
	5.1 State Types	3		Dt.03.10.2023, Dt.04.10.2023, Dt.6.10.2023 Dt.07.10.2023, Dt.09.10.2023
	5.2 Differentiate between impulse and reaction Turbine	3		Dt.11.10.2023, Dt.13.10.2023 Dt.16.10.2023, Dt.18.10.2023
6	**UNIT-6 : CONDENSER**	**4**		
	6.1 Explain the function of condenser	2		Dt.20.10.2023 Dt.25.10.2023 Dt.27.10.2023 Dt.30.10.2023
	6.2 State their types	2	NOVEMBER	Dt.01.11.2023, Dt.03.10.2023 Dt.04.11.2023 Dt.06.11.2023, Dt.08.11.2023, 14.10.11.2023
7	**UNIT-7 : I.C. ENGINE**	**4**		
	7.1 Explain working of two stroke and 4 stroke petrol and Diesel engines.	2		Dt.13.11.2023, Dt.15.11.2023 Dt.17.11.2023, Dt.18.11.2023
	7.2 Differentiate between them	2		Dt.20.11.2023, Dt.22.11.2023

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. 24.11.2023
	8.2 Determine pressure at a point, pressure measuring	3		Dt. 29.11.2023
9	**UNIT-9 : HYDROKINETICS**	**5**	DECEMBER	
	9.1 Deduce equation of continuity of flow	2		Dt. 01.12.2023
	9.2 Explain energy of flowing liquid	1		Dt. 02.12.2023
	9.3 State and explain Bernoulli's theorem	2		Dt. 04.12.2023
10	**UNIT-10 : HYDRAULIC DEVICES AND PNEUMATICS**	**5**		
	10.1 Intensifier	1		Dt. 06.12.2023
	10.2 Hydraulic lift	2		Dt. 06.12.2023
	10.3 Accumulator	1		Dt. 08.12.2023
	10.4 Hydraulic ram	1		Dt. 08.12.2023

K. Tripathy SP

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 2023 - 24

BRANCH : ELECTRICAL ENGG. SEMESTER : 3RD **SECTION : EA**	**NAME OF THE FACULTY : (1) ER. RASHMITA GADANAYAK,** **(2) ER. SUSHIL KUMAR MAJHI,** **(LECT. IN ELECT. ENGG.)**
SEMESTER FROM DT. 01.08.2023 TO 09.12.2023	**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**		
	1.1 Introduction	1	AUGUST	Dt. 01.08.2023
	1.2 Resistivity, factors affecting resistivity	2		Dt. 01.08.2023
	1.3 Classification of conducting materials into low-resistivity and high resistivity materials	2		Dt. 03.08.2023
	1.4 Low Resistivity Materials and their Applications. (Copper, Silver, Gold, Aluminum, Steel)	2		Dt. 03.08.2023
	1.5 Stranded conductors	2		Dt. 08.08.2023
	16 Bundled conductors	1		Dt. 08.08.2023
	1.7 Low resistivity copper alloys	1		Dt. 10.08.2023
	1.8 High Resistivity Materials and their Applications(Tungsten, Carbon, Platinum, Mercury)	2		Dt. 10.08.2023
	1.9 Superconductivity	1		Dt. 17.08.2023
	1.10 Superconducting materials	1		Dt. 17.08.2023
	1.11 Application of superconductor materials	1		Dt. 22.08.2023

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. 24.08.2023
	2.3 Electron Energy and Energy Band Theory	1		Dt. 24.08.2023
	2.4 Excitation of Atoms	1		Dt. 24.08.2023
	2.5 Insulators, Semiconductors and Conductors, 2 . 6 Semiconductor Materials, 2 . 7 Covalent Bonds	1		Dt. 29.08.2023
	2 . 8 Intrinsic Semiconductors, 2.9 Extrinsic Semiconductors, 2 .10 N-Type Materials, 2 .11 P-Type Materials	1		Dt. 29.08.2023
	2.12 Minority and Majority Carriers	1		Dt. 29.08.2023
	2.13 Semi-Conductor Materials, 2.14 Applications of Semiconductor materials	1		Dt. 29.08.2023
	2.14.1 Rectifiers,2.14.2 Temperature-sensitive resisters or thermistors,2.14.3 Photoconductive cells	1		Dt. 29.08.2023
	2.14.4 Photovoltaic cells, 2.14.7 Hall effect generators	1	SEPTEMBER	Dt. 05.09.2023
	2.14.5 Varisters, 2.14.6 Transistors, 2.14.8 Solar Power	1		Dt. 05.09.2023

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. 05. 09. 2023
	3 . 2 General properties of Insulating Materials	1		Dt. 07. 09. 2023
	3.2.1 Electrical properties	1		Dt. 07. 09. 2023
	3.2.2 Visual properties	1		Dt. 07. 09. 2023
	3.2.3 Mechanical properties	1		Dt. 12. 09. 2023
	3.2.4 Thermal properties	1		Dt. 12. 09. 2023
	3.2.5 Chemical properties	1		Dt. 12. 09. 2023
	3.2.6 Ageing	1		Dt. 12. 09. 2023
	3.3 Insulating Materials – Classification, properties, applications	1		Dt. 14. 09. 2023
	3.3.1 Introduction	1		Dt. 14. 09. 2023
	3.3.2 Classification of insulating materials on the basis physical	1		Dt. 14. 09. 2023
	3.4 Insulating Gases	1		Dt. 21. 09. 2023
	3.4.1 Introduction.	1		Dt. 21. 09. 2023
	3.4.2 Commonly used insulating gases	1		Dt. 21. 09. 2023

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 · 26 · 09 · 2023
	4.2 Dielectric Constant of Permittivity	2		Dt · 26 · 09 · 2023
	4.3 Polarization	1		Dt · 28 · 09 · 2023
	4.4 Dielectric Loss	1		Dt · 28 · 09 · 2023
	4.5 Electric Conductivity of Dielectrics and their Break Down	1	OCTOBER	Dt · 03 · 10 · 2023
	4.6 Properties of Dielectrics.	1		Dt · 03 · 10 · 2023
	4.7 Applications of Dielectrics.	1		Dt · 05 · 10 · 2023
5	**Unit- 5 : Magnetic Materials**	**8**		
	5.1 Introduction	1		Dt · 16 · 10 · 2023
	5.2 Classification	1		Dt · 17 · 10 · 2023
	5.2.1 Diamagnetism	1		Dt, 17 · 10 · 2023
	5.2.2 Para magnetism	1		Dt · 19 · 10 · 2023
	5.2.3 Ferromagnetism	1		Dt · 21 · 10 · 2023

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. 31.10.2023
	5.4 Hysteresis	1	NOVEMBER	Dt. 02.11.2023
	5.5 Eddy Currents			Dt. 02.11.2023
	5.6 Curie Point	1		Dt. 07.11.2023
	5.7 Magneto-striction			Dt. 07.11.2023
	5.8 Soft and Hard magnetic Materials	1		Dt. 07.11.2023
	5.8.1 Soft magnetic materials			Dt. 09.11.2023
	5.8.2 Hard magnetic materials	1		Dt. 14.11.2023
6	**Unit - 6 : Materials for Special Purposes**	**9**		
	6.1 Introduction	1		Dt. 16.11.2023
	6.2 Structural Materials	1		Dt. 21.11.2023
	6.3 Protective Materials	1		Dt. 23.11.2023
	6.3.1 Lead			Dt. 28.11.2023
	6.3.2 Steel tapes, wires and strips	1		Dt. 30.11.2023

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	DECEMBER	Dt.01.12.2023
	6.4.1 Thermocouple materials	1		Dt.02.12.2023
	6.4.2 Bimetals			Dt.04.12.2023
	6.4.3 Soldering Materials	1		Dt.05.12.2023
	6.4.4 Fuse and Fuse materials.	1		Dt.07.12.2023
	6.4.5 Dehydrating material.	1		Dt.08.12.2023

R.G SKM

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 2023 - 24				
BRANCH : ELECTRICAL ENGG. SEMESTER : 3RD SECTION : EA			NAME OF THE FACULTY : (1) ER. PRADYUMNA GARNAIK, (2) ER. SUSHIL SAHOO (LECT. IN ELECT. ENGG.)	
SEMESTER FROM DT. 01.08.2023 TO 09.12.2023			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**	AUGUST	
	Definition	1		Dt. 01.08.2023
	Scope of Environment	1		Dt. 03.08.2023
	Importance of Environment	1		Dt. 04.08.2023
	Need for public awareness	1		Dt. 07.08.2023
2	**UNIT 2 : NATURAL RESOURCES**	**10**		
	Renewable and non renewable resources	1		Dt. 08.08.2023
	Natural resources and associated problems	1		Dt. 10.08.2023
	Forest resources: Use and over-exploitation, deforestation, case studies, Timber extraction mining, dams and their effects on forests and tribal people	1		Dt. 11.08.2023
	Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dam's benefits and problems	1		Dt. 14.08.2023
	Mineral Resources: Use and exploitation, environmental effects of extracting and using mineralresources.	1		Dt. 17.08.2023

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.18.08.2023, Dt.21.08.2023
	Energy Resources: Growing energy need, renewable and non renewable energy sources, use of alternate energy sources, case studies.	1		Dt.22.08.2023, Dt.24.08.2023
	Land Resources: Land as a resource, land degradation, man induces landslides, soil erosion, anddesertification.	1		Dt.25.08.2023
	Role of individual in conservation of natural resources.	1		Dt.28.08.2023
	Equitable use of resources for sustainable life styles.	1		Dt.29.08.2023
	Revision	1		Dt.31.08.2023
3	**UNIT 3 : SYSTEMS**	**8**	SEPTEMBER	
	Concept of an eco system.Structure and function of an eco system	1		Dt.01.09.2023
	Producers, consumers,decomposers	1		Dt.04.09.2023
	Energy flow in the eco systems	1		Dt.05.09.2023
	Ecological succession	1		Dt.07.09.2023
	Food chains, food webs and ecological pyramids	1		Dt.08.09.2023
	Introduction, types, characteristic features	1		Dt.11.09.2023
	structure and function of the Forest ecosystem	1		Dt.12.09.2023
	structure and function of the Aquatic eco systems (ponds, streams, lakes,rivers, oceans, estuaries).	1		Dt.14.09.2023, Dt.15.09.2023

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·17·09·2023, Dt·18·09·2023
	Biogeographically classification of India	1		Dt·21·09·2023, Dt·22·09·2023
	Value of biodiversity: consumptive use	1		Dt·25·09·2023, Dt·26·09·2023
	Productive use, social , ethical, aesthetic and optinvalues	1		Dt·27·09·2023, Dt·28·09·2023
	Biodiversity at global, national and local level	1	OCTOBER	Dt·03·10·2023, Dt-05·10·2023
	Threats to biodiversity: Habitats loss, poaching of wild life	1		Dt·06·10·2023, Dt·9·10·2023
	Man wildlife conflicts	1		Dt·10·10·2023, Dt·12·10·2023
	Class test	1		Dt·13·10·2023, Dt·16·10·2023
5	**UNIT 5 : ENVIRONMENTAL POLLUATION**	**12**		
	Definition Causes, effects and control measures of:Air pollution	1		Dt·17·10·2023, Dt·19·10·2023
	Water pollution	1		Dt·20·10·2023, Dt·26·10·2023
	Soil pollution	1		Dt·27·10·2023
	Marine pollution	1		Dt·30·10·2023
	Noise pollution	1		Dt·31·10·2023
	Thermal pollution	1	NOVEMBER	Dt·02·11·2023

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	Nuclear hazards	1		Dt·03·11·2023, Dt·06·11·2023
	Solid waste Management	1		Dt·07·11·2023, Dt·9·11·2023
	Causes, effects and control measures of urban and industrial wastes.	1		Dt·10·11·2023, Dt·13·11·2023
	Role of an individual in prevention of pollution	1		Dt·14·11·2023, Dt·16·11·2023
	Disaster management: Floods, earth quake	1		Dt·17·11·2023
	Cyclone and landslides.	1		Dt·20·11·2023
6	**UNIT 6 : SOCIAL ISSUES AND THE ENVIRONMENT**	**10**		
	Form unsustainable to sustainable development	1		Dt·21·11·2023
	Urban problems related to energy	1		Dt·23·11·2023
	Water conservation, rain water harvesting, water shed management	1		Dt·24·11·2023
	Resettlement and rehabilitation of people; its problems and concern.	1		Dt·28·11·2023
	Environmental ethics: issue and possible solutions.	1		Dt·30·11·2023
	Climatechange, globalwarming,acidrain,ozonelayerdepletion	1		Dt·30·11·2023
	Nuclear accidents and holocaust, case studies	1		Dt·30·11·2023
	Air (prevention and control of pollution) Act.	1	DECEMBER	
	Water (prevention and control of pollution) Act.	1		Dt·01·12·2023
	Public awareness.	1		Dt·01·12·2023

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. 02.12.2023
	Population explosion- family welfare program	1		Dt. 04.12.2023
	Environment and humanhealth	1		Dt. 04.12.2023
	Human rights	1		Dt. 05.12.2023
	Value education	1		Dt. 05.12.2023
	Role of information technology in environment and human health	1		Dt. 07.12.2023
	Revision	1		Dt. 08.12.2023
	Class test	1		Dt. 08.12.2023.

P.U S.S

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 2023 - 24

BRANCH : ELECTRICAL ENGG. SEMESTER : 3RD, SECTION :- EB	**NAME OF THE FACULTY : (1) KISHIRA MOHAN BEHERA, (2) SAROJ KUMAR SAHOO (LECT. IN MATH.)**
SEMESTER FROM DT. 01.08.2023 TO 09.12.2023	**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**	AUGUST	
	1.1 Real and Imaginary numbers.	1		Dt. 01.08.2023
	1.2 Complex numbers, conjugate complex numbers, Modulus and Amplitude of a complex number.	1		Dt. 02.08.2023
	1.3 Geometrical Representation of Complex Numbers.	1		Dt. 03.08.2023
	1.4 Properties of Complex Numbers.	1		Dt. 07.08.2023
	1.5 Determination of three cube roots of unity and their properties.	1		Dt. 08.08.2023
	1.6 De Moivre's theorem	1		Dt. 09.08.2023
2	**UNIT - 2 : Matrices**	**4**		
	2.1. Define rank of a matrix.	1		Dt. 10.08.2023
	2.2. Perform elementary row transformations to determine the rank of a matrix.	1		Dt. 14.08.2023

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- 16.08.2023
	2 4. Solve equations in three unknowns testing consistency.	1		Dt-17.08.2023
3	**UNIT - 3 : Linear Differential Equations**	**10**		
	3 1. Define Homogeneous and Non – Homogeneous Linear Differential Equations with constant coefficients with examples.	2		Dt-21.08.2023 Dt-22.08.2023
	3 2. Find general solution of linear Differential Equations in terms of C.F. and P.I.	1		Dt-23.08.2023
	3.3. Derive rules for finding C.F. And P.I. in terms of operator D, excluding.	1		Dt-24.08.2023
	3.4. Define partial differential equation (P.D.E) .	1		Dt-28.08.2023
	3.5. Form partial differential equations by eliminating arbitrary constants and arbitrary functions.	1		Dt-29.08.2023 Dt-31.08.2023
	3.6. Solve partial differential equations of the form Pp + Qq = R	1	September	Dt-04.09.2023
	3.7. Solve problems on 3.1- 3.6	1		Dt.05.09.2023
	3.7. Solve problems on 3.1- 3.6	1		Dt.07.09.2023
	3.7. Solve problems on 3.1- 3.6	1		Dt.11.09.2023
	3.7. Solve problems on 3.1- 3.6	1		Dt.12.09.2023

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**		
	4.1. Define Gamma function and and find .	1		Dt. 13.09.2023
	4.2. Define Laplace Transform of a function and Inverse Laplace Transform .	1		Dt. 14.09.2023
	4.3. Derive L.T. of standard functions and explain existence conditions of L.T.	1		Dt. 18.09.2023
	4.4. Explain linear, shifting property of L.T.	1		Dt. 21.09.2023
	4.5. Formulate L.T. of derivatives, integrals, multiplication by and division by.	1		Dt. 25.09.2023
	4.6. Derive formulae of inverse L.T. and explain method of partial fractions.	1		Dt. 26.09.2023
	4.7. solve problem on 4.1- 4.6	1		Dt. 27.09.2023
	4.7. solve problem on 4.1- 4.6	1		Dt. 28.09.2023
	4.7. solve problem on 4.1- 4.6	1	October	Dt. 03.10.2023
	4.7. solve problem on 4.1- 4.6	2		Dt. 04.10.2023, Dt. 05.10.2023
	4.7. solve problem on 4.1- 4.6	1		Dt. 09.10.2023
	4.7. solve problem on 4.1- 4.6	1		Dt. 10.10.2023

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. 11.10.2023
	5.2. State Dirichlet's condition for the Fourier expansion of a function and it's convergence	1		Dt. 12.10.2023
	5.3. Express periodic function satisfying Dirichlet's conditions as a Fourier series.	1		Dt. 16.10.2023 Dt. 17.10.2023
	5.4. State Euler's formulae.	1		Dt. 18.10.2023, Dt. 19.10.2023
5	5.5. Define Even and Odd functions and find Fourier Series in	2		Dt. 25.10.2023, Dt. 26.10.2023
	5.6. Obtain F.S of continuous functions and functions having points of discontinuity	2		Dt. 30.10.2023, Dt. 31.10.2023
	5.7. Solve problems on 5.1 – 5.6	2	November	Dt. 01.11.2023, Dt. 02.11.2023
	5.7. Solve problems on 5.1 – 5.6	1		Dt. 06.11.2023
	5.7. Solve problems on 5.1 – 5.6	1		Dt. 07.11.2023
	5.7. Solve problems on 5.1 – 5.6	1		Dt. 08.11.2023
	UNIT - 6 : Numerical Methods	**4**		
6	6.1. Appraise limitation of analytical methods of solution of Algebraic Equations.	1		Dt. 09.11.2023
	6.2. Derive Iterative formula for finding the solutions of Algebraic Equations by :	1		Dt. 13.11.2023
	6.2.1. Bisection method	1		Dt. 14.11.2023
	6.2.2. Newton- Raphson method	1		Dt. 15.11.2023

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.16.11.2023 Dt.20.11.2023
	7.2. Define shift Operator and establish relation between & difference operator.	1		Dt.21.11.2023
	7.3. Derive Newton's forward and backward interpolation formula for equal intervals.	1		Dt.22.11.2023
	7.4. State Lagrange's interpretation formula for unequal intervals.	1		Dt.23.11.2023
	7.5. Explain numerical integration and state:	1		Dt.28.11.2023
	7.5.1. Newton's Cote's formula.	1		Dt.29.11.2023
	7.5.2. Trapezoidal rule.	1		Dt.30.11.2023
	7.5.3. Simpson's 1/3rd rule	1	December	Dt.01.12.2023
	7.6. Solve problems on 7.1- 7.5	1		Dt.02.12.2023, Dt.04.12.2023
	7.6. Solve problems on 7.1- 7.5	1		Dt.05.12.2023
	7.6. Solve problems on 7.1- 7.5	1		Dt.06.12.2023
	7.6. Solve problems on 7.1- 7.5	1		Dt.07.12.2023

KMB SKS

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 2023 - 24

BRANCH : ELECTRICAL ENGG. SEMESTER : 3RD **SECTION :- EB**	**NAME OF THE FACULTY : (1) ER. SASWATI SANGHAMITRA PRADHAN, (2) ER. SAKTIDATTA PRADHAN, (3) ER. BIBHUTI BHUSAN SAHU** **(LECT. IN ELECT. ENGG.)**
SEMESTER FROM DT. 01.,08.2023 TO 09.12.2023	**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**	AUGUST	1
	1.1 Introduction	1		Dt. 01.08.2023
	1.2 Magnetizing force, Intensity, MMF, flux and their relations	1		Dt. 02.08.2023
	1.3 Permeability, reluctance and permeance	1		Dt. 03.08.2023
	1.4 Analogy between electric and Magnetic Circuits	1		Dt. 04.08.2023
	1.5 B-H Curve	1		Dt. 07.08.2023
	1.6 Series & parallel magnetic circuit.	1		Dt. 08.08.2023
	1.7 Hysteresis loop	1		Dt. 09.08.2023
2	**UNIT-2 : COUPLED CIRCUITS**	**5**		
	2 .1 Self Inductance and Mutual Inductance 2 .2 Conductively coupled circuit and mutual impedance	4		Dt. 10.08.2023, Dt. 11.08.2023 Dt. 14.08.2023, Dt. 16.08.2023

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		Dt·17·08·2023 Dt·18·08·2023
	2.4 Coefficient of coupling	1		Dt·21·08·2023 Dt·22·08·2023
	2 .5 Series and parallel connection of coupled inductors.	1		Dt·23·08·2023, Dt·24·08·2023
	2 .6 Solve numerical problems	1		Dt·25·08·2023, Dt·28·08·2023
3	**UNIT-3 : CIRCUIT ELEMENTS AND ANALYSIS**	**6**		
	3 .1 Active, Passive, Unilateral & bilateral, Linear & Non linear elements	1		Dt·29·08·2023, Dt·31·08·2023
	3.2 Mesh Analysis, Mesh Equations by inspection	1	SEPTEMBER	Dt·01·09·2023, Dt·04·09·2023
	3.3 Super mesh Analysis	1		Dt·05·09·2023, Dt·07·09·2023
	3.4 Nodal Analysis, Nodal Equations by inspection	1		Dt·08·09·2023, Dt·10·09·2023
	3.5 Super node Analysis.	1		Dt·12·09·2023, Dt·13·09·2023
	3.6 Source Transformation Technique 3.7 Solve numerical problems (With Independent Sources Only)	1		Dt·14·09·2023, Dt·15·09·2023
4	**UNIT-4 : NETWORK THEOREMS**	**8**		
	4.1 Star to delta and delta to star transformation	1		Dt·18·09·2023, Dt·21·09·2023
	4.2 Super position Theorem	1		Dt·22·09·2023, Dt·25·09·2023

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. 26.09.2023, Dt. 27.09.2023
	4.4 Norton's Theorem	1		Dt. 28.09.2023
	4.5 Maximum power Transfer Theorem.	1	OCTOBER	Dt. 03.10.2023, Dt. 04.10.2023
	4.6 Solve numerical problems (With Independent Sources Only)	3		Dt. 05.10.2023, Dt. 06.10.2023 Dt. 09.10.2023, Dt. 10.10.2023
5	**UNIT-5 : AC CIRCUIT AND RESONANCE**	**8**		
	5.1 A.C. through R-L, R-C & R-L-C Circuit	1		Dt. 11.10.2023, Dt. 12.10.2023
	5.2 Solution of problems of A.C. through R-L, R-C & R-L-C series Circuit by complex algebra method.	1		Dt. 13.10.2023, Dt. 16.10.2023
	5.3 Solution of problems of A.C. through R-L, R-C & R-L-C parallel & Composite Circuits	1		Dt. 17.10.2023, Dt. 18.10.2023
	5.4 Power factor & power triangle.	1		Dt. 19.10.2023, Dt. 20.10.2023
	5.5 Deduce expression for active, reactive, apparent power.	1		Dt. 25.10.2023, Dt. 26.10.2023
	5.6 Derive the resonant frequency of series resonance and parallel resonance circuit	1		Dt. 27.10.2023. Dt. 30.10.2023
	5.7 Define Bandwidth, Selectivity & Q-factor in series circuit.	1		Dt. 31.10.2023.
	5.8 Solve numerical problems	1	NOVEMBER	Dt. 01.11.2023, Dt. 02.11.2023

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. 03.11.2023
	6.2 Relation between phase and line quantities in star & delta connection	1		Dt. 06.11.2023
	6.3 Power equation in 3-phase balanced circuit.	1		Dt. 07.11.2023
	6.4 Solve numerical problems	1		Dt. 08.11.2023
	6.5 Measurement of 3-phase power by two wattmeter method.	1		Dt. 09.11.2023
	6.6 Solve numerical problems.	1		Dt. 10.11.2023
7	**UNIT - 7 : TRANSIENTS**	**6**		
	7.1 Steady state & transient state response.	2		Dt. 13.11.2023, Dt. 14.11.2023
	7.2 Response to R-L, R-C & RLC circuit under DC condition.	2		Dt. 15.11.2023, Dt. 16.11.2023
	7.3 Solve numerical problems	2		Dt. 17.11.2023, Dt. 20.11.2023
8	**UNIT-8 : TWO-PORT NETWORK**	**8**		
	8.1 Open circuit impedance (z) parameters	1		Dt. 21.11.2023
	8.2 Short circuit admittance (y) parameters	1		Dt. 22.11.2023

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. 23.11.2023
	8.4 Hybrid (h) parameters.	1		Dt. 24.11.2023
	8.5 Inter relationships of different parameters.	1		Dt. 28.11.2023, Dt. 29.11.2023
	8.6 T and π representation.	1		Dt. 30.11.2023
	8.7 Solve numerical problems	1	DECEMBER	Dt. 01.12.2023
9	**UNIT-9 : FILTERS**	**6**		
	9.1 Define filter 9.2 Classification of pass Band, stop Band and cut-off frequency. 9.3 Classification of filters.	1		Dt. 02.12.2023
	9.4 Constant – K low pass filter.	1		Dt. 04.12.2023
	9.5 Constant – K high pass filter.	1		Dt. 05.12.2023
	9.6 Constant – K Band pass filter.	1		Dt. 06.12.2023
	9.7 Constant – K Band elimination filter.	1		Dt. 07.12.2023
	9.8 Solve Numerical problems	1		Dt. 08.12.2023

SSP SD BBS

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 2023 - 24

BRANCH : ELECTRICAL ENGG. SEMESTER : 3RD **SECTION : EB**	**NAME OF THE FACULTY : (1) ER. KAMALAKANTA TRIPATHY,** **(2) ER. SHUBHAM PRADHAN** **(LECT. IN MECH. ENGG.)**
SEMESTER FROM DT. 01.08.2023 TO 09.12.2023	**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**	AUGUST	
	1.1 State Unit of Heat and work, 1st law of thermodynamics.	2		Dt. 02. 08. 2023 Dt. 04. 08. 2023
	1.2 State Laws of perfect gases	2		Dt. 05. 08. 2023 Dt. 07. 08. 2023
	1.3 Determine relationship of specific heat of gases at constant volume and constant pressure.	2		Dt. 09. 08. 2023 Dt. 11. 08. 2023
2	**UNIT-2 : PROPERTIES OF STEAM**	**5**		
	2 .1 Use steam table for solution of simple problem	2		Dt. 14. 08. 2023 Dt. 16. 08. 2023
	2.2 Explain total heat of wet, dry and super heated steam	3		Dt. 18. 08. 2023, Dt. 19. 08. 2023 Dt. 21. 08. 2023
3	**UNIT-3 : BOILERS**	**10**		
	3.1 State types of Boilers	3		Dt. 23. 08. 2023, Dt. 25. 08. 2023 Dt. 28. 08. 2023
	3.2 Describe Cochran, Babcock Wilcox boiler	3	SEPTEMBER	Dt. 01. 09. 2023, Dt. 02. 09. 2023 Dt. 04. 09. 2023.
	3.3 Describe Mountings and accessories	4		Dt. 08. 09. 2023, Dt. 11. 09. 2023 Dt. 13. 09. 2023, Dt. 15. 09. 2023

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.16.09.2023 Dt.18.09.2023
	4.2 Draw Indicator diagram	2		Dt.22.09.2023 Dt.25.09.2023
	4.3 Calculate Mean effective pressure, IHP and BHP and mechanical efficiency.	2		Dt.27.09.2023 Dt.30.09.2023
	4.4 Solve Simple problem.	4	OCTOBER	Dt.04.10.2023, Dt.06.10.2023 Dt.07.10.2023, Dt.09.10.2023
	UNIT-5 : STEAM TURBINES	**6**		
5	5.1 State Types	3		Dt.11.10.2023, Dt.13.10.2023 Dt.16.10.2023
	5.2 Differentiate between impulse and reaction Turbine	3		Dt.18.10.2023, Dt.20.10.2023 Dt.25.10.2023
	UNIT-6 : CONDENSER	**4**		
6	6.1 Explain the function of condenser	2		Dt.27.10.2023 Dt.30.10.2023
	6.2 State their types	2	NOVEMBER	Dt.01.11.2023 Dt.03.11.2023
	UNIT-7 : I.C. ENGINE	**4**		
7	7.1 Explain working of two stroke and 4 stroke petrol and Diesel engines.	2		Dt.04.11.2023 Dt.06.11.2023
	7.2 Differentiate between them	2		Dt.08.11.2023 Dt.10.11.2023

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·13·11·2023 Dt·15·11·2023
	8.2 Determine pressure at a point, pressure measuring	3		Dt·17·11·2023, Dt·18·11·2023 Dt·20·11·2023
9	**UNIT-9 : HYDROKINETICS**	**5**		
	9.1 Deduce equation of continuity of flow	2		Dt·22·11·2023, Dt·24·11·2023
	9.2 Explain energy of flowing liquid	1		Dt·29·11·2023
	9.3 State and explain Bernoulli's theorem	2	DECEMBER	Dt·01·12·2023, Dt·02·12·2023
10	**UNIT-10 : HYDRAULIC DEVICES AND PNEUMATICS**	**5**		
	10.1 Intensifier	1		Dt·02·12·2023
	10.2 Hydraulic lift	2		Dt·04·12·2023, Dt·06·12·2023
	10.3 Accumulator	1		Dt·06·12·2023
	10.4 Hydraulic ram	1		Dt·08·12·2023

K. Tripathy SD

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 2023 - 24

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

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

SEMESTER FROM DT. 01.08.2023 TO 09.12.2023

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**	AUGUST	
	1.1 Introduction	1		Dt. 02.08.2023
	1.2 Resistivity, factors affecting resistivity	2		Dt. 07.08.2023
	1.3 Classification of conducting materials into low-resistivity and high resistivity materials	2		Dt. 09.08.2023
	1.4 Low Resistivity Materials and their Applications. (Copper, Silver, Gold, Aluminum, Steel)	2		Dt. 14.08.2023
	1.5 Stranded conductors	2		Dt. 16.08.2023
	16 Bundled conductors	1		Dt. 21.08.2023
	1.7 Low resistivity copper alloys	1		Dt. 23.08.2023
	1.8 High Resistivity Materials and their Applications(Tungsten, Carbon, Platinum, Mercury)	2		Dt. 28.08.2023
	1.9 Superconductivity	1		Dt. 28.08.2023
	1.10 Superconducting materials	1		Dt. 28.08.2023
	1.11 Application of superconductor materials	1	SEPTEMBER	Dt. 04.09.2023

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. 04.09.2023
	2.3 Electron Energy and Energy Band Theory	1		Dt. 11.09.2023
	2.4 Excitation of Atoms	1		Dt. 11.09.2023
	2.5 Insulators, Semiconductors and Conductors, 2 . 6 Semiconductor Materials, 2 . 7 Covalent Bonds	1		Dt. 13.09.2023
	2 . 8 Intrinsic Semiconductors, 2.9 Extrinsic Semiconductors, 2 .10 N-Type Materials, 2 .11 P-Type Materials	1		Dt. 13.09.2023
	2.12 Minority and Majority Carriers	1		Dt. 18.09.2023
	2.13 Semi-Conductor Materials, 2.14 Applications of Semiconductor materials	1		Dt. 18.09.2023
	2.14.1 Rectifiers,2.14.2 Temperature-sensitive resisters or thermistors,2.14.3 Photoconductive cells	1		Dt. 25.09.2023
	2.14.4 Photovoltaic cells, 2.14.7 Hall effect generators	1		Dt. 25.09.2023
	2.14.5 Varisters, 2.14.6 Transistors, 2.14.8 Solar Power	1		Dt. 25.09.2023

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. 27.09.2023
	3 . 2 General properties of Insulating Materials	1		Dt. 27.09.2023
	3.2.1 Electrical properties	1	OCTOBER	Dt. 04.10.2023
	3.2.2 Visual properties	1		Dt. 09.10.2023
	3.2.3 Mechanical properties	1		Dt. 09.10.2023
	3.2.4 Thermal properties	1		Dt. 11.10.2023
	3.2.5 Chemical properties	1		Dt. 11.10.2023
	3.2.6 Ageing	1		Dt. 16.10.2023
	3.3 Insulating Materials – Classification, properties, applications	1		Dt. 16.10-2023
	3.3.1 Introduction	1		Dt. 18.10.2023
	3.3.2 Classification of insulating materials on the basis physical	1		Dt. 18.10.2023
	3.4 Insulating Gases	1		Dt. 25.10.2023
	3.4.1 Introduction.	1		Dt. 25.10.2023
	3.4.2 Commonly used insulating gases	1		Dt. 30.10.2023

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. 30.10.2023
	4.2 Dielectric Constant of Permittivity	2	NOVEMBER	Dt. 01.11.2023
	4.3 Polarization	1		Dt. 01.11.2023
	4.4 Dielectric Loss	1		Dt. 06.11.2023
	4.5 Electric Conductivity of Dielectrics and their Break Down	1		Dt. 06.11.2023
	4.6 Properties of Dielectrics.	1		Dt. 08.11.2023
	4.7 Applications of Dielectrics.	1		Dt. 08.11.2023
5	**Unit- 5 : Magnetic Materials**	**8**		
	5.1 Introduction	1		Dt. 13.11.2023
	5.2 Classification	1		Dt. 13.11.2023
	5.2.1 Diamagnetism	1		Dt. 15.11.2023
	5.2.2 Para magnetism	1		Dt. 15.11.2023
	5.2.3 Ferromagnetism	1		Dt. 15.11.2023

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. 20.11.2023
	5.4 Hysteresis	1		Dt. 20.11.2023
	5.5 Eddy Currents	1		Dt. 20.11.2023
	5.6 Curie Point	1		Dt. 22.11.2023
	5.7 Magneto-striction	1		Dt. 22.11.2023
	5.8 Soft and Hard magnetic Materials	1		Dt. 29.11.2023
	5.8.1 Soft magnetic materials	1		Dt. 29.11.2023
	5.8.2 Hard magnetic materials	1		Dt. 29.11.2023
6	**Unit - 6 : Materials for Special Purposes**	9	DECEMBER	
	6.1 Introduction	1		Dt. 01.12.2023
	6.2 Structural Materials	1		Dt. 01.12.2023
	6.3 Protective Materials	1		Dt. 01.12.2023
	6.3.1 Lead	1		Dt. 02.12.2023
	6.3.2 Steel tapes, wires and strips	1		Dt. 02.12.2023

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. 02.12.2023
	6.4.1 Thermocouple materials	1		Dt. 04.12.2023
	6.4.2 Bimetals	1		Dt. 04.12.2023
	6.4.3 Soldering Materials	1		Dt. 06.12.2023
	6.4.4 Fuse and Fuse materials.	1		Dt. 06.12.2023
	6.4.5 Dehydrating material.	1		Dt. 06.12.2023

RG SKM

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 2023 - 24				
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. 01.08.2023 TO 09.12.2023			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**	AUGUST	
	Definition	1		Dt. 03.08.2023
	Scope of Environment	1		Dt. 04.08.2023
	Importance of Environment	1		Dt. 05.08.2023
	Need for public awareness	1		Dt. 07.08.2023
2	**UNIT 2 : NATURAL RESOURCES**	**10**		
	Renewable and non renewable resources	1		Dt. 10.08.2023
	Natural resources and associated problems	1		Dt. 11.08.2023
	Forest resources: Use and over-exploitation, deforestation, case studies, Timber extraction mining, dams and their effects on forests and tribal people	1		Dt. 14.08.2023
	Water resources: Use and over-utilization of surface and ground water,floods, drought, conflicts over water, dam's benefits and problems	1		Dt. 17.08.2023
	Mineral Resources: Use and exploitation, environmental effects of extracting and using mineral resources.	1		Dt. 18.08.2023

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. 19.08.2023
	Energy Resources: Growing energy need, renewable and non renewable energy sources, use of alternate energy sources, case studies.	1		Dt. 21.08.2023
	Land Resources: Land as a resource, land degradation, man induces landslides, soil erosion, anddesertification.	1		Dt. 24.08.2023, Dt. 25.08.2023
	Role of individual in conservation of natural resources.	1		Dt. 28.08.2023
	Equitable use of resources for sustainable life styles.	1		Dt. 31.08.2023
	Revision	2	SEPTEMBER	Dt. 01.09.2023, Dt. 02.09.2023
3	**UNIT 3 : SYSTEMS**	**8**		
	Concept of an eco system.Structure and function of an eco system	1		Dt. 04.09.2023
	Producers, consumers,decomposers	1		Dt. 07.09.2023
	Energy flow in the eco systems	1		Dt. 08.09.2023
	Ecological succession	1		Dt. 11.09.2023
	Food chains, food webs and ecological pyramids	1		Dt. 14.09.2023
	Introduction, types, characteristic features	1		Dt. 15.09.2023
	structure and function of the Forest ecosystem	1		Dt. 16.09.2023
	structure and function of the Aquatic eco systems (ponds, streams, lakes,rivers, oceans, estuaries).	1		Dt. 18.09.2023

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. 21.09.2023
	Biogeographically classification of India	1		Dt. 22.09.2023
	Value of biodiversity: consumptive use	1		Dt. 25.09.2023, Dt. 30.09.2023
	Productive use, social , ethical, aesthetic and optinvalues	4	OCTOBER	Dt. 05.10.2023, Dt. 06.10.2023 Dt. 07.10.2023, Dt. 09.10.2023
	Biodiversity at global, national and local level	1		Dt. 12.10.2023
	Threats to biodiversity: Habitats loss, poaching of wild life	1		Dt. 13.10.2023, Dt. 16.10.2023
	Man wildlife conflicts	1		Dt. 19.10.2023, Dt. 20.10.2023
	Class test	1		Dt. 26.10.2023
5	**UNIT 5 : ENVIRONMENTAL POLLUATION**	**12**		
	Definition Causes, effects and control measures of:Air pollution	1		Dt. 27.10.2023
	Water pollution	1		Dt. 30.10.2023
	Soil pollution	1	NOVEMBER	Dt. 02.11.2023
	Marine pollution	1		Dt. 03.11.2023
	Noise pollution	1		Dt. 04.11.2023
	Thermal pollution	1		Dt. 06.11.2023

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	Nuclear hazards	1		Dt. 09. 11. 2023
	Solid waste Management	1		Dt. 10. 11. 2023
	Causes, effects and control measures of urban and industrial wastes.	1		Dt. 13. 11. 2023
	Role of an individual in prevention of pollution	1		Dt. 16. 11. 2023
	Disaster management: Floods, earth quake	1		Dt. 17. 11. 2023
	Cyclone and landslides.	1		Dt. 18. 11. 2023
6	**UNIT 6 : SOCIAL ISSUES AND THE ENVIRONMENT**	**10**		
	Form unsustainable to sustainable development	1		Dt. 20. 11. 2023
	Urban problems related to energy	1		Dt. 23. 11. 2023
	Water conservation, rain water harvesting, water shed management	1		Dt. 24. 11. 2023
	Resettlement and rehabilitation of people; its problems and concern.	1		Dt. 30. 11. 2023
	Environmental ethics: issue and possible solutions.	1	DECEMBER	Dt. 01. 12. 2023
	Climatechange,globalwarming,acidrain,ozonelayerdepletion	1		Dt. 01. 12. 2023
	Nuclear accidents and holocaust, case studies	1		Dt. 01. 12. 2023
	Air (prevention and control of pollution) Act.	1		Dt. 02. 12. 2023
	Water (prevention and control of pollution) Act.	1		Dt. 02. 12. 2023
	Public awareness.	1		Dt. 02. 12. 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. 06.12.2023
	Population explosion- family welfare program	1		Dt. 06.12.2023
	Environment and humanhealth	1		Dt. 06.12.2023
	Human rights	1		Dt. 07.12.2023
	Value education	1		Dt. 07.12.2023
	Role of information technology in environment and human health	1		Dt. 08.12.2023
	Revision	1		Dt. 08.12.2023
	Class test	1		Dt. 08.12.2023

PG SB

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 2023 - 24

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

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

SEMESTER FROM DT. 01.08.2023 TO 09.12.2023 **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**	August		
1	Determination of M.A,V.R and efficiency of screw Jack.		1	Dt - 07 · 08 · 2023
2	Determination of friction co-efficient of bearing.		1	Dt - 14 · 08 · 2023
3	Determination of Young's modulus by searle's apparatus.		1	Dt - 21 · 08 · 2023
4	Determination of M.A,V.R and efficiency of wheel train.		1	Dt - 28 · 08 · 2023
5	Determination of bending stress in beam using strain gauge.	September	1	Dt - 04 · 09 · 2023
6	Study of UTM and determination of tensile stress and Young's modulus of M.S specification.		1	Dt - 11 · 09 · 2023
(II)	**HYDRAULICS & HYDRAULICS MACHINE LAB.**			
7	Study of pressure measuring devices such as piezo-meter,simple manometer.		1	Dt - 18 · 09 · 2023
8	Study of Venturi-meter.		1	Dt - 25 · 09 · 2023
9	Verification of Bernouli's theorem.	October	1	Dt - 09 · 10 · 2023

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 - 16.10.2023
(III)	**HEAT ENGINE LAB.**			
11	Study of cochran boiler .		1	Dt - 30.10.2023
12	Study and demonstration of steam engine.	NOVEMBER	1	Dt - 06.11.2023
13	Study and demonstration of Disel engine.		1	Dt - 13.11.2023
14	Study and demonstration of petrol engine.		1	Dt - 20.11.2023

S.P B.CB

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 2023 - 24

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

NAME OF THE FACULTY : (1) ER. DEBABRATA DIBYARANJAN, (2) ER. SAKTIDATTA PRADHAN, (3) ER. BIBHUTI BHUSAN SAHU (LECT. IN ELECT. ENGG.)

SEMESTER FROM DT. 01.08.2023 TO 09.12.2023 **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.	AUG	3	Dt- 03.08.2023, Dt- 04.08.2023 Dt- 10.08.2023
2	Measurment of power and power factor using series R-L-C load.		3	Dt- 11.08.2023, Dt- 17.08.2023 Dt- 18.08.2023
3	Verification of KCL and KVL.		3	Dt- 24.08.2023, Dt-25.08.2023 Dt- 31.08.2023
4	Verification of super position theorem.	SEPT	3	Dt- 01.09.2023, Dt.07.09.2023 Dt. 08.09.2023
5	Verification of Thevenin's theorem.		3	Dt- 14.09.2023, Dt. 15.09.2023 Dt. 21.09.2023
6	Verification of Norton's theorem.		2	Dt. 22.09.2023, Dt. 28.09.2023 D
7	Verification of maximum power transfer theorem.	OCT	3	Dt. 05.10.2023, Dt- 06.10.2023 Dt. 12.10.2023
8	Determine resonant frequency of series R-L-C circuit.		3	Dt- 13.10.2023, Dt-19.10.2023 Dt. 20.10.2023

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·26·10·2023, Dt·27·10·2023
10	Study of high pass filter and determination of cut-off frequency.	NOV	5	Dt·02·11·2023, Dt·03·11·2023, Dt·09·11·23 Dt·10·11·2023, Dt·16·11·2023
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.		4	Dt·17·11·2023, Dt·23·11·2023 Dt·24·11·2023, Dt·30·11·2023
12	Construct the superposition theorem,series resonance and R-L-C circuit using P-spice /MAT LAB software and compare the wave forms.	DEC	2	Dt·07·12·2023 Dt·08·12·2023

D.D S.P B.B

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 2023 - 24

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

NAME OF THE FACULTY : (1) ER. GOURI SANKAR PRADHAN, (2) ER. SAMIR PRASAD SAHU (LECT. IN MECH. ENGG.), (3) BHIMASEN ROUT (WORKSHOP INSTRUCTOR)

SEMESTER FROM DT. 01.08.2023 TO 09.12.2023 **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**			
1	Study about the carpentry tools and uses.	AUGUST	4	Dt.01.08.2023, Dt.02.08.2023 Dt.08.08.2023, Dt.09.08.2023
2	Different operations like sawing ,planning ,chiseling is to be done.		4	Dt.16.08.2023, Dt.22.08.2023 Dt.23.08.2023, Dt.29.08.2023
3	Learn to measure and marking on carpentry.	SEPTEMBER	5	Dt.05.09.2023, Dt.12.09.2023, Dt.13.09.23 Dt.26.09.2023, Dt.27.09.2023
4	Study of different types of timbers used by carpenters ,substitutions of timbers.	OCTOBER	4	Dt.03.10.2023, Dt.04.10.2023 Dt.10.10.2023, Dt.11.10.2023
5	Jobs on carpentry like slot Notch,Mortise and tenon joint is to be done.		4	Dt.17.10.2023, Dt.18.10.2023 Dt.25.10.2023, Dt.31.10.2023
(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.	NOVEMBER	8	Dt.01.11.2023, Dt.07.11.2023, Dt.08.11.23 Dt.14.11.2023, Dt.15.11.2023, Dt.21.11.23 Dt.22.11.2023, Dt.29.11.2023
7	A turning job is to be done.	DECEMBER	2	Dt.05.12.2023 Dt.06.12.2023

G.S.P S.P.S B.R

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

PRACTICAL LESSON PLAN FOR THE SESSION 2023 - 24

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

NAME OF THE FACULTY : (1) ER. DEBABRATA DIBYARANJAN (LECT. IN ELECT. ENGG.), (2) ER. LILI NAYAK (T.A., ELECT. ENGG.)

SEMESTER FROM DT. 01.08.2023 TO 09.12.2023 **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.	Presentations	AUGUST	2	Dt. 05.08.2023 Dt. 19.08.2023
2.	Gamify learning	SEPTEMBER	1	Dt. 02.09.2023
3.	Debates		2	Dt. 16.09.2023 Dt. 30.09.2023
4.	Encourage classroom collaboration	OCTOBER	1	Dt. 07.10.2023
5.	Inquiry-based learning	NOVEMBER	1	Dt. 04.11.2023
6.	Role plays		1	Dt. 18.11.2023

S.P B.C.B

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 2023 - 24

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

NAME OF THE FACULTY : (1)ER. KAMALAKANTA TRIPATHY, (2) ER. SHUBHAM PRADHAN (LECT. IN MECH. ENGG.), (3) ER. BISHNU CHARANA BEHERA (T.A., MECH. ENGG.)

SEMESTER FROM DT. 01.08.2023 TO 09.12.2023 **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**	AUG		
1	Determination of M.A,V.R and efficiency of screw Jack.		1	Dt- 07.08.2023
2	Determination of friction co-efficient of bearing.		1	Dt- 14.08.2023
3	Determination of Young's modulus by searle's apparatus.		1	Dt- 21.08.2023
4	Determination of M.A,V.R and efficiency of wheel tra n.		1	Dt- 28.08.2023
5	Determination of bending stress in beam using strain gauge.	SEPT	1	Dt- 04.09.2023
6	Study of UTM and determination of tensile stress and Young's modulus of M.S specification.		1	Dt- 11.09.2023
(II)	**HYDRAULICS & HYDRAULICS MACHINE LAB.**			
7	Study of pressure measuring devices such as piezo-meter,simple manometer.		2	Dt- 18.09.2023 Dt- 25.09.2023
8	Study of Venturi-meter.	OCT	1	Dt- 09.10.2023
9	Verification of Bernouli's theorem.		1	Dt- 16.10.2023

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- 30.10.2023
(III)	**HEAT ENGINE LAB.**	NOV		
11	Study of cochran boiler .		2	Dt- 06.11.2023 Dt - 13.11.2023
12	Study and demonstration of steam engine.		1	Dt -20.11.2023
13	Study and demonstration of Disel engine.	DEC	1	Dt- 04.12.2023
14	Study and demonstration of petrol engine.		1	Dt- 04.12.2023

K.Tripathy S.P

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 2023 - 24

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. 01.08.2023 TO 09.12.2023 **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.	AUGUST	4	Dt. 02.08.2023, Dt. 04.08.2023 Dt. 09.08.2023 Dt. 11.08.2023
2	Measurment of power and power factor using series R-L-C load.		4	Dt. 16.08.2023, Dt. 18.08.2023 Dt. 23.08.2023, Dt. 25.08.2023
3	Verification of KCL and KVL.	SEPTEMBER	3	Dt. 01.09.2023, Dt. 08.09.23 Dt. 13.09.2023
4	Verification of super position theorem.		3	Dt. 15.09.2023, Dt. 22.09.23 Dt. 27.09.2023.
5	Verification of Thevenin's theorem.	OCTOBER	4	Dt. 04.10.2023, Dt. 06.10.2023 Dt. 11.10.2023, Dt. 13.10.2023
6	Verification of Norton's theorem.		4	Dt. 18.10.2023, Dt. 20.10.2023 Dt. 25.10.2023, Dt. 27.10.2023
7	Verification of maximum power transfer theorem.	NOVEMBER	2	Dt. 01.11.2023 Dt. 03.11.2023
8	Determine resonant frequency of series R-L-C circuit.		2	Dt. 08.11.2023 Dt. 10.11.2023

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. 15.11.2023, Dt. 17.11.2023
10	Study of high pass filter and determination of cut-off frequency.		2	Dt. 22.11.2023, Dt. 24.11.2023
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. 29.11.2023
12	Construct the superposition theorem,series resonance and R-L-C circuit using P-spice /MAT LAB software and compare the wave forms.	DECEMBER	2	Dt. 06.12.2023 Dt. 08.12.2023

D.D S.P

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

PRACTICAL LESSION PLAN FOR THE SESSION 2023 - 24

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.), KRUSHNA CH. SAHU, BHIMASEN ROUT (WORKSHOP INSTRUCTOR) **(3)**

SEMESTER FROM DT. 01.08.2023 TO 09.12.2023 **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**	AUGUST		
1	Study about the carpentry tools and uses.		4	Dt.01.08.2023, Dt.03.08.2023 Dt.08.08.2023, Dt.10.08.2023
2	Different operations like sawing ,planning ,chiseling is to be done.		5	Dt.17.08.2023, Dt.22.08.2023 Dt.24.08.2023 Dt.29.08.23, Dt.31.8.23
3	Learn to measure and marking on carpentry.	SEPTEMBER	4	Dt.05.09.2023, Dt.07.09.2023, Dt.12.09.2023, Dt.14.09.2023
4	Study of different types of timbers used by carpenters ,substitutions of timbers.		3	Dt.21.09.2023, Dt.26.09.2023 Dt.28.09.2023.
5	Jobs on carpentry like slot Notch,Mortise and tenon joint is to be done.	OCTOBER	8	Dt-03.10.23, Dt-5.10.23, Dt.10.10.2023 Dt.12.10.23, Dt.17.10.23, Dt.19.10.23 Dt.26.10.23, Dt.31.10.23
(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.	NOVEMBER	9	Dt.02.11.2023, Dt.07.11.2023, Dt-09.11.23 Dt.14.11.2023, Dt.16.11.2023, Dt.21.11.23 Dt.28.11.2023, Dt.28.11.2023, Dt.30.11.23
7	A turning job is to be done.	DECEMBER	2	Dt.05.11.2023, Dt.07.11.2023

G.S.P G.B

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

PRACTICAL LESSON PLAN FOR THE SESSION 2023 - 4

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

NAME OF THE FACULTY : (1) ER. SWAGAT SAHOO, (2) ER. BIBHUTI BHUSAN SAHU (LECT. IN ELECT. ENGG.)

SEMESTER FROM DT. 01.08.2023 TO 09.12.2023 **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.	Presentations	AUGUST	1	Dt. 05.08.2023
2.	Gamaby learning		1	Dt. 19.08.2023
3.	Debates	SEPTEMBER	2	Dt. 02.09.2023 Dt. 16.09.2023
4.	Encourage classroom collaboration		1	Dt. 30.09.2023
5.	Inquiry-based learning	OCTOBER	1	Dt. 07.10.2023
6.	Role plays	NOVEMBER	2	Dt. 04.11.2023 Dt. 04.11.2023

K. Tripathy B.C.B

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 2023 - 24

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

NAME OF THE FACULTY : (1) ER. KAMALAKANTA TRIPATHY (LECT. IN MECH. ENGG.), (2) ER. BISHNU CHARANA BEHERA (T.A.,MECH. ENGG.)

SEMESTER FROM DT. 01.08.2023 TO 09.12.2023 **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**	August		
1	Determination of M.A,V.R and efficiency of screw Jack.		1	Dt - 03.08.2023
2	Determination of friction co-efficient of bearing.		1	Dt - 10.08.2023
3	Determination of Young's modulus by searle's apparatus.		1	Dt - 17, 08. 2023
4	Determination of M.A,V.R and efficiency of wheel train.		2	Dt - 24.08.2023 Dt - 31, 08. 2023
5	Determination of bending stress in beam using strain gauge.	September	1	Dt - 07.09.2023
6	Study of UTM and determination of tensile stress and Young's modulus of M.S specification.		1	Dt - 14.09.2023
(II)	**HYDRAULICS & HYDRAULICS MACHINE LAB.**			
7	Study of pressure measuring devices such as piezo-meter,simple manometer.		2	Dt - 21.09.2023, Dt - 28.09.2023
8	Study of Venturi-meter.	OCTOBER	1	Dt - 05.10.2023
9	Verification of Bernouli's theorem.		1	Dt - 12.10.2023

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- 19.10.2023 , Dt- 26.10.2023
(III)	**HEAT ENGINE LAB.**	NOV		
11	Study of cochran boiler .		2	Dt- 02.11.2023 Dt- 09.11.2023
12	Study and demonstration of steam engine.		2	Dt- 16.11.2023 Dt- 23.11.2023
13	Study and demonstration of Disel engine.		1	Dt- 30.11.2023
14	Study and demonstration of petrol engine.	DEC	1	Dt- 07.12.2023

K.Tripathy B.C.B

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

PRACTICAL LESSON PLAN FOR THE SESSION 2023 - 24

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. 01.08.2023 TO 09.12.2023 **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.	AUGUST	4	Dt. 01.08.2023, Dt. 02.08.2023 Dt. 08.08.2023, Dt. 09.08.2023
2	Measurment of power and power factor using series R-L-C load.		4	Dt. 16.08.2023, Dt. 22.08.2023 Dt. 23.08.2023, Dt. 29.08.2023
3	Verification of KCL and KVL.	SEPTEMBER	3	Dt. 05.09.2023, Dt. 12.09.2023 Dt. 13.09.2023
4	Verification of super position theorem.		2	Dt. 26.09.2023, Dt. 27.09.2023
5	Verification of Thevenin's theorem.	OCTOBER	3	Dt. 03.10.2023, Dt. 04.10.2023 Dt. 10.10.2023
6	Verification of Norton's theorem.		5	Dt. 11.10.2023, Dt. 17.10.2023, Dt. 18.10.2023, Dt. 25.10.2023, Dt. 31.10.23
7	Verification of maximum power transfer theorem.	NOVEMBER	2	Dt. 01.11.2023 Dt. 07.11.2023
8	Determine resonant frequency of series R-L-C circuit.		2	Dt. 08.11.2023 Dt. 14.11.2023

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. 15.11.2023 Dt. 21.11.2023
10	Study of high pass filter and determination of cut-off frequency.		2	Dt. 22.11.2023 Dt. 28.11.2023
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. 29.11.2023
12	Construct the superposition theorem,series resonance and R-L-C circuit using P-spice /MAT LAB software and compare the wave forms.	DECEMBER	2	Dt. 05.12.2023 Dt. 06.12.2023

D.D S.P

SIGNATURE OF THE CONCERNED FACULTY

S.prasadhan

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 2023 - 24

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

NAME OF THE FACULTY : (1) ER. SAMIR PRASAD SAHU (LECT. IN MECH. ENGG.), (2) KRUSHNA CHANDRA SAHU, (3) BHIMASEN ROUT (WORKSHOP INSTRUCTOR)

SEMESTER FROM DT. 01.08.2023 TO 09.12.2023 **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**	AUGUST		
1	Study about the carpentry tools and uses.		4	Dt.04.08.2023, Dt.07.08.2023 Dt.11.08.2023, Dt.14.08.2023
2	Different operations like sawing ,planning ,chiseling is to be done.		4	Dt.18.08.2023, Dt.21.08.2023 Dt.25.08.2023, Dt.28.08.2023
3	Learn to measure and marking on carpentry.	SEPTEMBER	4	Dt.01.09.2023, Dt.04.09.2023 Dt.08.09.2023, Dt.11.09.2023
4	Study of different types of timbers used by carpenters ,substitutions of timbers.		4	Dt.15.09.2023, Dt.18.09.2023 Dt.22.09.2023, Dt.25.09.2023
5	Jobs on carpentry like slot Notch,Mortise and tenon joint is to be done.	OCTOBER	7	Dt.06.09.2023, Dt.09.09.2023, Dt.13.09.2023 Dt.16.09.2023, Dt.20.09.2023, Dt.27.09.23 Dt.30.09.2023
(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.	NOVEMBER	7	Dt.03.11.2023, Dt.06.11.2023 Dt.10.11.2023, Dt.13.11.2023 Dt.17.11.2023, Dt.20.11.2023 Dt.24.11.2023
7	A turning job is to be done.	DECEMBER	2	Dt.04.12.2023 Dt.08.12.2023

S.P.S K.C.S B.P

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 2023 - 24

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

NAME OF THE FACULTY : (1) ER. DEBABRATA DIBYARANJAN (LECT. IN ELECT. ENGG.), (2) ER. LILI NAYAK (T.A., ELECT. ENGG.)

SEMESTER FROM DT. 01.08.2023 TO 09.12.2023 **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.	Presentations	AUGUST	2	Dt. 05.08.2023 Dt. 19.08.2023
2.	Gamify learning	SEPTEMBER	2	Dt. 02.09.2023 Dt. 16.09.2023
3.	Debates		1	Dt. 30.09.2023
4.	Encourage classroom collaboration	OCTOBER	1	Dt. 07.10.2023
5.	Inquiry-based learning	NOVEMBER	1	Dt. 04.11.2023
6.	Role plays		1	Dt. 18.11.2023

K. Tripathy BCB
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 2023 - 24

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

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

SEMESTER FROM DT. 01.08.2023 TO 09.12.2023 **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**	Aug		
1	Determination of M.A,V.R and efficiency of screw Jack.		2	Dt- 04.08.2023 Dt- 11.08.2023
2	Determination of friction co-efficient of bearing.		1	Dt - 18.08.2023
3	Determination of Young's modulus by searle's apparatus.		1	Dt- 25.08.2023
4	Determination of M.A,V.R and efficiency of wheel train.	Sept	1	Dt - 01.09.2023
5	Determination of bending stress in beam using strain gauge.		2	Dt - 08.09.2023 Dt - 15.09.2023
6	Study of UTM and determination of tensile stress and Young's modulus of M.S specification.		1	Dt - 22.09.2023
(II)	**HYDRAULICS & HYDRAULICS MACHINE LAB.**	OCT		
7	Study of pressure measuring devices such as piezo-meter,simple manometer.		1	Dt - 06.10.2023
8	Study of Venturi-meter.		1	Dt - 13.10.2023
9	Verification of Bernouli's theorem.		1	Dt - 20.10.2023

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 - 27 · 10 · 2023
(III)	**HEAT ENGINE LAB.**	NOV		
11	Study of cochran boiler .		1	Dt - 03 · 11 · 2023
12	Study and demonstration of steam engine.		1	Dt - 10 · 11 · 2023
13	Study and demonstration of Disel engine.		2	Dt - 17 · 11 · 2023 Dt - 24 · 11 · 2023
14	Study and demonstration of petrol engine.	DEC	1	Dt - 08 · 12 · 2023

S.P B.C.B

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 2023 - 24

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. 01.08.2023 TO 09.12.2023 **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.	AUGUST	4	Dt·01·08·2023, Dt·03·08·2023 Dt·08·08·2023, Dt·10·08·2023
2	Measurment of power and power factor using series R-L-C load.		5	Dt·17·08·2023, Dt·22·08·2023 Dt·24·08·2023, Dt·29·08·2023 Dt·31·08·2023
3	Verification of KCL and KVL.	SEPTEMBER	3	Dt·05·09·2023, Dt·07·09·2023 Dt·12·09·2023
4	Verification of super position theorem.		4	Dt·14·09·2023, Dt·21·09·2023 Dt·26·09·2023, Dt·28·09·2023
5	Verification of Thevenin's theorem.	OCTOBER	4	Dt·03·10·2023, Dt·05·10·2023 Dt·10·10·2023, Dt·12·10·2023
6	Verification of Norton's theorem.		2	Dt·17·10·2023, Dt·19·10·2023
7	Verification of maximum power transfer theorem.		2	Dt·26·10·2023, Dt·31·10·2023
8	Determine resonant frequency of series R-L-C circuit.	NOVEMBER	4	Dt·02·11·2023, Dt·07·11·2022 Dt·09·11·2023, Dt·14·11·2022

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
9	Study of low pass filter and determination of cut-off frequency.		2	Dt. 16.11.2023, Dt. 21.11.2023
10	Study of high pass filter and determination of cut-off frequency.		2	Dt. 23.11.2023, Dt. 28.11.2023
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. 30.11.2023
12	Construct the superposition theorem,series resonance and R-L-C circuit using P-spice /MAT LAB software and compare the wave forms.	DECEMBER	2	Dt. 05.12.2023 Dt. 07.12.2023

D.P S.P

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 2023 - 24

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. 01.08.2023 TO 09.12.2023 **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**	AUGUST		
1	Study about the carpentry tools and uses.		4	Dt. 02.08.2023, Dt. 07.08.2023 Dt. 09.08.2023, Dt. 14.08.2023
2	Different operations like sawing ,planning ,chiseling is to be done.		4	Dt. 16.08.2023, Dt. 21.08.2023 Dt. 22.08.2023, Dt. 28.08.2023
3	Learn to measure and marking on carpentry.	SEPTEMBER	6	Dt. 04.09.2023, Dt. 11.09.2023, Dt. 13.09.2023 Dt. 18.09.2023, Dt. 25.09.2023, Dt. 27.09.23
4	Study of different types of timbers used by carpenters ,substitutions of timbers.	OCTOBER	3	Dt. 04.10.2023, Dt. 11.10.2023 Dt. 16.10.2023
5	Jobs on carpentry like slot Notch,Mortise and tenon joint is to be done.		3	Dt. 18.10.2023, Dt. 25.10.2023 Dt. 30.10.2023
(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.	NOVEMBER	8	Dt. 01.11.2023, Dt. 06.11.2023 Dt. 08.11.2023, Dt. 13.11.2023 Dt. 15.11.2023, Dt. 20.11.2023 Dt. 22.11.2023, Dt. 28.11.2023
7	A turning job is to be done.	DECEMBER	2	Dt. 04.12.2023, Dt. 06.12.2023

G.S.P G.B

SIGNATURE OF THE CONCERNED FACULTY

S.pradhan

SIGNATURE OF THE H.O.D.

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

PRINCIPAL
Pratap Chandra Institute of Engineering & Technology
CHHENDIPADA

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

PRACTICAL LESSON PLAN FOR THE SESSION 2023 - 24

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

NAME OF THE FACULTY : (1) ER. SWAGAT SAHOO, (2) ER. BIBHUTI BHUSAN SAHU (LECT. IN ELECT. ENGG.)

SEMESTER FROM DT. 01.08.2023 TO 09.12.2023 **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.	Presentations	August	1	Dt. 05.08.2023
2.	Gamify learning		1	Dt. 19.08.2023
3.	Debates	SEPTEMBER	2	Dt. 02.09.2023 Dt. 16.09.2023
4.	Encourage classroom collaboration		1	Dt. 30.09.2023
5.	Inquiry-based learning	OCTOBER	1	Dt. 07.10.2023
6.	Role plays	NOVEMBER	2	Dt. 4.11.2023 Dt. 18.11.2023

S.P B.C.B

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