

P.C.I.E.T., CHHENDIPADA, DIST- ANGUL					
THEORY LESSON PLAN FOR THE SESSION 2022 - 23					
BRANCH : ELECTRICAL ENGINEERING, SEMESTER : 6TH SECTION : EA		NAME OF THE FACULTY : (1) ER. SUBHASHREE PRADHAN (HOD, ELECT. ENGG.), (2) ER. RAMESH CHANDRA PRADHAN (LECT. IN ELECT. ENGG.)			
SEMESTER FROM : 13.02.2023 to 23.05.2023		THEORY SUBJECT: ELECTRICAL INSTALLATION & ESTIMATING (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 INDIAN ELECTRICITY RULES	6	JANUARY		
	1.1 Definitions, Ampere, Apparatus, Accessible, Bare, cable, circuit, circuit breaker, conductor voltage (low, medium, high, EH), live, dead, cut-out, conduit, system, danger, Installation, earthing system, span, volt, switch gear, etc	2		Dt. 16.01.2024 Dt. 17.01.2024	
	1.2 General safety precautions, rule 29, 30, 31, 32, 33, 34, 35, 36, 40, 41, 43, 44, 45, 46.	1		Dt. 18.01.2024	
	1.3 General conditions relating to supply and use of energy : rule 47, 48, 49, 50, 51, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 70.	2		Dt. 19.01.2024 Dt. 22.01.2024	
	1.4 OH lines : Rule 74, 75, 76, 77, 78, 79, 80, 86, 87, 88, 89, 90, 91	1		Dt. 24.01.2024	
2	UNIT-2 ELECTRICAL INSTALLATIONS	12			
	2. 1 Electrical installations, domestics, industrial, Wiring System, Internal distribution of Electrical Energy. Methods of wiring, systems of wiring, wire and cable, conductor materials used in cables, insulating materials mechanical protection. Types of cables used in internal wiring, multi-stranded cables, voltage grinding of cables, general specifications of cables.	4		Dt. 25.01.2024 Dt. 29.01.2024 Dt. 30.01.2024 Dt. 31.01.2024	

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	2. 2 ACCESSORIES: Main switch and distribution boards, conduits, conduit accessories and fittings, lighting accessories and fittings, fuses, important definitions, determination of size of fuse – wire, fuse units. Earthing conductor, earthing, IS specifications regarding earthing of electrical installations, points to be earthed. Determination of size of earth wire and earth plate for domestic and industrial installations. Material required for GI pipe earthing.	4	FEBRUARY	Dt. 01.02.2024 Dt. 02.02.2024 Dt. 05.02.2024 Dt. 06.02.2024
	2. 3 LIGHTING SCHEME: Aspects of good lighting services. Types of lighting schemes, design of lighting schemes, factory lighting, public lighting installations, street lighting, general rules for wiring, determination of number of points (light, fan, socket, outlets), determination of total load, determination of Number of subcircuits	4		Dt. 07.02.2024 Dt. 08.02.2024 Dt. 09.02.2024 Dt. 12.02.2024
	UNIT-3 INTERNAL WIRING	12		
	3. 1 Type of internal wiring, cleat wiring, CTS wiring, wooden casing capping, metal sheathed wiring, conduit wiring, their advantage and disadvantages comparison and applications.	2		Dt. 13.02.2024 Dt. 15.02.2024
	3. 2 Prepare one estimate of materials required for CTS wiring for small domestic installation of one room and one verandah within 25 m2 with given light, fan & plug points.	2		Dt. 16.02.2024 Dt. 19.02.2024
3	3. 3 Prepare one estimate of materials required for conduit wiring for small domestic installation of one room and one verandah within 25 m2 with given light, fan & plug points	2		Dt. 20.02.2024 Dt. 21.02.2024

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
4	3. 4 Prepare one estimate of materials required for concealed wiring for domestic installation of two rooms and one latrine, bath, kitchen & verandah within 80m ² with given light, fan & plug points.	3		Dt. 22.02.2024 Dt. 23.02.2024 Dt. 26.02.2024
	3. 5 Prepare one estimate of materials required for erection of conduct wiring to a small workshop installation about 30m ² and load within 10 KW.	3		Dt. 27.02.2024, Dt. 28.02.2024 Dt. 29.02.2024
	UNIT-4 OVER HEAD INSTALLATION	12	MARCH	
	4.1. Main components of overhead lines, line supports, factors Governing Height of pole, conductor materials, determination of size of conductor for overhead transmission line, cross arms, pole brackets and clamps, guys and stays, conductors configurations, spacing and clearances, span lengths, overhead line insulators, types of insulators, lighting arresters, danger plates, anti-climbing devices, bird guards, beads of jumpers, jumpers, tee-offs, guarding of overhead lines.	4		Dt. 01.03.2024 Dt. 04.03.2024 Dt. 06.03.2024 Dt. 07.03.2024
	4.2. Prepare an estimate of materials required for LT distribution line within load of 100 KW maximum and standard spans involving calculation of the size of conductor (from conductor chart), current carrying capacity and voltage regulation VI Sem Electrical Page 5 of 28 consideration using ACSR	4		Dt. 11.03.2024 Dt. 12.03.2024 Dt. 13.03.2024 Dt. 14.03.2024
	4.3. Prepare an estimate of materials required for LT distribution line within load of 100 KW maximum and standard spans involving calculation of the size of conductor (from conductor chart), current carrying capacity and voltage regulation consideration using ACSR.	2		Dt. 15.03.2024 Dt. 18.03.2024

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	4.4. Prepare an estimate of materials required for HT distribution line (11 KV) within 2 km and load of 2000 KVA maximum and standard spans involving calculation of the size of conductor (from conductor chart), current carrying capacity and voltage regulation of the size of conductor (from conductor chart), current carrying capacity and voltage regulation consider action using ACSR.	4		Dt. 19.03.2024 Dt. 20.03.2024 Dt. 21.03.2024 Dt. 22.03.2024
	UNIT 5 OVER HEAD SERVICE LINES	12		
	5. 1 Components of service lines, service line (cables and conductors), bearer wire, lacing rod, Ariel fuse, service support, energy box and meters etc.	2		Dt. 24.03.2024 Dt. 28.03.2024
	5. 2 Prepare and estimate for providing single phase supply of load of 5 KW (light, fan, socket) to a single stored residential building.	2	April	Dt. 02.04.2024, Dt. 03.04.2024
5	5. 3 Prepare and estimate for providing single phase supply load of 3KW to each floor of a double stored building having separate energy meter	2		Dt. 04.04.2024 Dt. 05.04.2024
	5. 4 Prepare one estimate of materials required for service connection to a factory building with load within 15 KW using insulated wire.	3		Dt. 08.04.2024, Dt. 09.04.2024 Dt. 10.04.2024
	5. 5 Prepare one estimate of materials required for service connection to a factory building with load within 15 KW using bare conductor and insulated wire combined.	3		Dt. 12.04.2024, Dt. 15.04.2024 Dt. 16.04.2024, Dt. 18.04.2024

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	UNIT-6 ESTIMATING FOR DISTRIBUTION SUBSTATIONS	6		
6	6. 1 Prepare one materials estimate for following types of transformer substations. 6.1.1 Pole mounted substation. 6.1.2 Plinth Mounted substation.	6		Dt. 19.04.2024, Dt. 22.04.2024 Dt. 23.04.2024, Dt. 24.04.2024 Dt. 25.04.2024, Dt. 26.04.2024

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THEORY LESSON PLAN FOR THE SESSION 2023 - 24				
BRANCH : ELECTRICAL ENGINEERING, SEMESTER : 6TH SECTION : EA		NAME OF THE FACULTY : (1) ER. SUGYANI SAHOO, (2) ER. SWAGAT SAHOO, (3) ER. BIJAYA KUMAR BEHERA (LECT. IN ELECT. ENGG.)		
SEMESTER FROM : 16.01.2024 to 26.04.2024 CLASS ALLOTTED /WEEK : 04 PERIODS		THEORY SUBJECT: SWITCH GEAR AND PROTECTIVE DEVICES (TH-2)		
Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
1	UNIT-1 INTRODUCTION TO SWITCHGEAR	6	JANUARY	
	1.1 Essential Features of switchgear	1		Dt. 16.01.2024
	1.2 Switchgear Equipment.	1		Dt. 17.01.2024
	1.3 Bus-Bar Arrangement.	1		Dt. 18.01.2024
	1.4 Switchgear Accommodation	1		Dt. 19.01.2024
	1.5 Short Circuit.			Dt. 22.01.2024
	1.6 Short circuit.	1		Dt. 24.01.2024
	1.7 Faults in a power system.	1		Dt. 25.01.2024
2	UNIT-2 FAULT CALCULATION	10		
	2.1 Symmetrical faults on 3-phase system.	2		Dt. 26.01.2024 , Dt. 29.01.2024
	2.2 Limitation of fault current.	1		Dt. 30.01.2024
	2.3 Percentage Reactance	1		Dt. 31.01.2024
	2.4 Percentage Reactance and Base KVA.	1	FEBRUARY	Dt. 01.02.2024
	2.5 Short – circuit KVA	1		Dt. 02.02.2024
	2.6 Reactor control of short circuit currents	1		Dt. 05.02.2024
	2.7 Location of reactors.	1		Dt. 06.02.2024
	2.8 Steps for symmetrical Fault calculations	1		Dt. 07.02.2024
	2.9 Solve numerical problems on symmetrical fault.	1		Dt. 08.02.2024

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
3	UNIT-3 FUSES	6		
	3.1 Desirable characteristics of fuse element	1		Dt. 09.02.2024
	3.2 Fuse Element materials.	1		Dt. 12.02.2024
	3.3 Types of Fuses and important terms used for fuses	1		Dt. 13.02.2024
	3.4 Low and High voltage fuses.	1		Dt. 15.02.2024
	3.5 Current carrying capacity of fuse element.	1		Dt. 16.02.2024
	3.6 Difference Between a Fuse and Circuit Breaker	1		Dt. 19.02.2024
4	UNIT-4 CIRCUIT BREAKERS	10		
	4.1 Definition and principle of Circuit Breaker	1		Dt. 20.02.2024
	4.2 Arc phenomenon and principle of Arc Extinction.			Dt. 21.02.2024
	4.3 Methods of Arc Extinction.	1		Dt. 22.02.2024
	4.4 Definitions of Arc voltage, Re-striking voltage and Recovery voltage.			Dt. 23.02.2024
	4.5 Classification of circuit Breakers.	1		Dt. 26.02.2024
	4.6 Oil circuit Breaker and its classification.			Dt. 26.02.2024
	4.7 Plain brake oil circuit breaker			Dt. 27.02.2024
	4.8 Arc control oil circuit breaker.	1		Dt. 24.02.2024
	4.9 Low oil circuit breaker.	1		Dt. 28.02.2024
	4.10 Maintenance of oil circuit breaker			Dt. 28.02.2024

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
5	4.11 Air-Blast circuit breaker and its classification.	1		Dt-29.02.2024
	4.12 Sulphur Hexa-fluoride (SF6) circuit breaker.			Dt-29.02.2024
	4.13 Vacuum circuit breakers.	1	MARCH	Dt-01.03.2024
	4.14 Switchgear component	1		Dt-04.03.2024
	4.15 Problems of circuit interruption			Dt-06.03.2024
	4.16 Resistance switching.	1		Dt-07.03.2024
	4.17 Circuit Breaker Rating	1		Dt-11.03.2024
	UNIT-5 PROTECTIVE RELAYS	8		
	5.1 Definition of Protective Relay.	1		Dt-12.03.2024
	5.2 Fundamental requirement of protective relay.	1		Dt-13.03.2024
	5.3 Basic Relay operation 5.3.1. Electromagnetic Attraction type 5.3.2. Induction type	1		Dt-14.03.2024
	5.4 Definition of following important terms			Dt-15.03.2024
	5.5 Definition of following important terms. 5.5.1. Pick-up current. 5.5.2. Current setting. 5.5.3. Plug setting Multiplier. 5.5.4. Time setting Multiplier.	1		Dt-18.03.2024
	5.6 Classification of functional relays	1		Dt-19.03.2024
	5.7 Induction type over current relay (Non-directional)	1		Dt-20.03.2024
	5.8 Induction type directional power relay.			Dt-20.03.2024
	5.9 Induction type directional over current relay	1		Dt-21.03.2024
	5.10 Differential relay 5.10.1. Current differential relay 5.10.2. Voltage balance differential relay.	1		Dt-22.03.2024
	5.11 Types of protection	1		Dt-24.03.2024

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6	UNIT-6 PROTECTION OF ELECTRICAL POWER EQUIPMENT AND LINES	6		
	6.1 Protection of alternator	1	APRIL	Dt. 28.03.2024
	6.2 Differential protection of alternators.			Dt. 02.04.2024
	6.3 Balanced earth fault protection.	1		Dt. 03.04.2024
	6.4 Protection systems for transformer			Dt. 04.04.2024
	6.5 Buchholz relay.	1		Dt. 05.04.2024
	6.6 Protection of Bus bar			Dt. 08.04.2024
	6.7 Protection of Transmission line.	1		Dt. 09.04.2024
	6.8 Different pilot wire protection (Merz-price voltage Balance system)	1		Dt. 10.04.2024
7	6.9 Explain protection of feeder by over current and earth fault relay	1		Dt. 12.04.2024
	UNIT -7 PROTECTION AGAINST OVER VOLTAGE AND LIGHTING	8		
	7.1. Voltage surge and causes of over voltage.	1		Dt. 12.04.2024
	7.2. Internal cause of over voltage.	1		Dt. 15.04.2024
	7.3. External cause of over voltage (lighting)	1		Dt. 15.04.2024
	7.4. Mechanism of lightning discharge.	1		Dt. 15.04.2024
	7.5. Types of lightning strokes.	1		Dt. 16.04.2024

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	7.6. Harmful effect of lightning.	1		Dt. 16.04.2024
	7.7. Lightning arresters and Type of lightning Arresters. 7.7.1. Rod-gap lightning arrester. 7.7.2. Horn-gap arrester. 7.7.3. Valve type arrester.	1		Dt. 16.04.2024
	7.8. Surge Absorber	1		Dt. 18.04.2024
8	UNIT - 8 STATIC RELAY	6		
	8. 1 Advantage of static relay.	2		Dt. 18.04.2024, Dt. 19.04.2024
	8. 2 Instantaneous over current relay.	2		Dt. 19.04.2024, Dt. 22.04.2024
	8. 3 Principle of IDMT relay.	2		Dt. 23.04.2024, Dt. 25.04.2024

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SEMESTER FROM : 16.01.2024 to 26.04.2024 CLASS ALLOTTED /WEEK : 04 PERIODS		THEORY SUBJECT: CONTROL SYSTEM ENGINEERING (TH-3)		
Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
1	UNIT-1 FUNDAMENTAL OF CONTROL SYSTEM	4	JANUARY	
	1.1. Classification of Control system	1		Dt.16.01.2024
	1.2. Open loop system & Closed loop system and its comparison	1		Dt.17.01.2024
	1.3. Effects of Feed back	1		Dt.18.01.2024
	1.4. Standard test Signals(Step, Ramp, Parabolic, impulse Functions)	1		Dt.19.01.2024
	1.5. Servomechanism	1		Dt.22.01.2024
2	UNIT-2 MATHEMATICAL MODEL OF A SYSTEM	4		
	2.1. Transfer Function & Impulse response,	1		Dt.24.01.2024
	2.2. Properties, Advantages & Disadvantages of Transfer Function	1		Dt.25.01.2024
	2.3. Poles & Zeroes of transfer Function	1		Dt.29.01.2024
	2.4. Simple problems of transfer function of network.	1		Dt.30.01.2024
	2.5. Mathematical modeling of Electrical Systems(R, L, C, Analogous systems)	1		Dt.31.01.2024

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
3	UNIT-3 CONTROL SYSTEM COMPONENTS	4	FEBRUARY	
	3.1. Components of Control System	2		Dt. 01.02.2024 , Dt. 02.02.2024
	3.2. Gyroscope, Synchros, Tachometer, DC servomotors, Ac Servomotors.	2		Dt. 05.02.2024 , Dt. 06.02.2024
4	UNIT-4 BLOCK DIAGRAM ALGEBRA & SIGNAL FLOW GRAPHS	8		
	4.1. Definition: Basic Elements of Block Diagram	1		Dt. 07.02.2024
	4.2. Canonical Form of Closed loop Systems	1		Dt. 08.02.2024
	4.3. Rules for Block diagram reduction	1		Dt. 09.02.2024
	4.4. Procedure for of Reduction of Block Diagram	1		Dt. 12.02.2024
	4.5. Simple Problem for equivalent transfer function	1		Dt. 13.02.2024
	4.6. Basic Definition in Signal Flow Graph & properties	1		Dt. 15.02.2024
	4.7. Construction of Signal Flow graph from Block diagram	1		Dt. 16.02.2024
	4.8. Mason's Gain formula	1		Dt. 19.02.2024
	4.9. Simple problems in Signal flow graph for network	1		Dt. 20.02.2024
5	UNIT-5 TIME RESPONSE ANALYSIS	10		
	5.1 Time response of control system.	5		Dt. 21.02.2024 , Dt. 22.02.2024 , Dt. 23.02.2024 Dt. 26.02.2024 , Dt. 27.02.2024
	5.2 Standard Test signal. 5.2.1. Step signal, 5.2.2. Ramp Signal 5.2.3. Parabolic Signal 5.2.4. Impulse Signal	3		Dt. 27.02.2024 , Dt. 28.02.2024 Dt. 29.02.2024

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	5.3 Time Response of first order system with: 5.3.1 Unit step response, 5.3.2 Unit impulse response	2	MARCH	Dt. 01.03.2024 , Dt. 04.03.2024
	5.4 Time response of second order system to the unit step input : 5.4.1 Time response specification, 5.4.2 Derivation of expression for rise time, peak time, peak overshoot, settling time and steady state error, 5.4.3 Steady state error and error constants, 5.5 Types of control system (Steady state errors in Type-0, Type-1, Type-2 system, 5.6 Effect of adding poles and zero of transfer function, 5.7 Response with P, PI, PD and PID Controller.			Dt. 06.03.2024 Dt. 07.03.2024 Dt. 11.03.2024 Dt. 12.03.2024
	ANALYSIS OF STABILITY BY ROOT LOCUS TECHNIQUE	10		
6	6.1 Root locus concept			Dt. 13.03.2024 , Dt. 14.03.2024
	6.2 Construction of root loci			Dt. 15.03.2024
	6.3 Rules for construction of the root locus			Dt. 18.03.2024 , Dt. 19.03.2024
	6.4 Effect of adding poles and zeros to G(s) and H(s)			Dt. 20.03.2024 , Dt. 21.03.2024
	FREQUENCY RESPONSE ANALYSIS	10		
7	7.1 Correlation between time response and frequency response			Dt. 22.03.2024 , Dt. 27.03.2024
	7.2 Polar plots			Dt. 28.03.2024
	7.3 Bode plots			Dt. 02.04.2024 , Dt. 03.04.2024
	7.4 All pass and minimum phase system			Dt. 04.04.2024 , Dt. 05.04.2024

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	7.5 Computation of Gain margin and phase margin			Dt. 08.04.2024
	7.6 Log magnitude versus phase plot			Dt. 09.04.2024
	7.7 Closed loop frequency response			Dt. 12.04.2024
	NYQUIST PLOT	10		
	3.1 Principle of argument			Dt. 15.04.2024 , Dt. 16.04.2024
	3.2 Nyquist stability criterion			Dt. 18.04.2024 , Dt. 19.04.2024
	3.3 Nyquist stability criterion applied to inverse polar plot			Dt. 22.04.2024
	3.4 Effect of addition of poles and zeros to G(S), H(S) on the shape of Nyquist plot			Dt. 23.04.2024
	3.5 Assessment of relative stability			Dt. 24.04.2024
	3.6 Constant M and N circle			Dt. 25.04.2024
	3.7 Nicholas chart			Dt. 26.04.2024

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SEMESTER FROM : 16.01.2024 to 26.04.2024 CLASS ALLOTTED /WEEK : 04 PERIODS		THEORY SUBJECT: RENEWABLE ENERGY SYSTEM (TH-4B)		
Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
1	UNIT-1 INTRODUCTION TO RENEWABLE ENERGY	5	JANUARY	
	1.1. Environmental consequences of fossil fuel use	1		Dt. 16. 01. 2024
	1.2. Importance of renewable sources of energy			Dt. 17. 01. 2024
	1.3. Sustainable Design and development	1		Dt. 18. 01. 2024
	1.4. Types of RE sources	1		Dt. 19. 01. 2024
	1.5. Limitations of RE sources	1		Dt. 22. 01. 2024
	1.6. Present Indian and international energy scenario of conventional and RE sources	1		Dt. 24. 01. 2024
2	UNIT-2 SOLAR ENERGY	15		
	2.1. Solar photovoltaic system-Operating principle	2		Dt. 25. 01. 2024 , Dt. 29. 01. 2024
	2.2. Photovoltaic cell concepts 2.2.1. Cell, module, array, Series and parallel connections. Maximum power point tracking (MPPT).	3		Dt. 29. 01. 2024 , Dt. 30. 01. 2024, Dt. 31. 01. 2024
	2.3. Classification of energy Sources	2	FEBRUARY	Dt. 01. 02. 2024, Dt. 02. 02. 2024
	2.4. Extra-terrestrial and terrestrial Radiation	3	FEBRUARY	Dt. 05. 02. 2024, Dt. 06. 02. 2024, Dt. 07. 02. 2024
	2.5. Azimuth angle, Zenith angle, Hour angle, Irradiance, Solar constant	2		Dt. 08. 02. 2024, Dt. 09. 02. 2024

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	2.6. Solar collectors, Types and performance characteristics	2		Dt . 12.02.2024 , Dt . 13.02.2024
	2.7. Applications: Photovoltaic - battery charger, domestic lighting, street lighting, water pumping, solar cooker, Solar Pond	1		Dt . 15.02.2024.
	UNIT-3 WIND ENERGY	12		
	3.1. Introduction to Wind energy	2		Dt . 16.02.2024 , Dt . 19.02.2024
	3.2. Wind energy conversion	2		Dt . 20.02.2024 , Dt . 21,02.2024
	3.3. Types of wind turbines	1		Dt . 22.02.2024
	3.4. Aerodynamics of wind rotors	1		Dt . 23.02.2024
	3.5. Wind turbine control systems; conversion to electrical power	1		Dt . 26.02.2024
	3.6. Induction and synchronous generators	1		Dt . 27.02.2024
	3.7. Grid connected and self excited induction generator operation	1		Dt . 29.02.2024
	3.8. Constant voltage and constant frequency generation with power electronic control	1	MARCH	Dt . 01.03.2024
	3.9. Single and double output systems.	1		Dt . 04.03.2024
	3.10. Characteristics of wind power plant	1		Dt . 06.03.2024
	4 UNIT-4 BIOMASS POWER	12		
	4.1. Energy from Biomass	2		Dt . 07.03.2024 , Dt . 11.03.2024
	4.2. Biomass as Renewable Energy Source	1		Dt . 12.03.2024
	4.3. Types of Biomass Fuels - Solid, Liquid and Gas	1		Dt . 13.03.2024

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	4 4. Combustion and fermentation	2		Dt. 14. 03. 2024, Dt. 15. 03. 2024
	4 5. Anaerobic digestion	1		Dt. 18. 03. 2024
	4 6. Types of biogas digester	1		Dt. 19. 03. 2024
	4 7. Wood gasifier	1		Dt. 20. 03. 2024
	4 8. Pyrolysis	2		Dt. 21. 03. 2024 , Dt. 22. 03. 2024
	4 9. Applications: Bio gas, Bio diesel	1		Dt. 27. 03. 2024
	UNIT-5 OTHER ENERGY SOURCES	16		
	5 1. Tidal Energy: Energy from the tides, Barrage and Non Barrage Tidal power systems	3	APRIL	Dt. 28. 03. 2024 , Dt. 02. 04. 2024, Dt. 04. 04. 2024
	5 2. Ocean Thermal Energy Conversion (OTEC)	2		Dt. 05. 04. 2024 , Dt. 08. 04. 2024
	5 3. Geothermal Energy – Classification	3		Dt. 09. 04. 2024 , Dt. 10. 04. 2024, Dt. 12. 04. 2024
	5 4. Hybrid Energy Systems	2		Dt. 15. 04. 2024 , Dt. 16. 04. 2024
	5 5. Need for Hybrid Systems	2		Dt. 18. 04. 2024 , Dt. 19. 04. 2024
	5 6. Diesel-PV, Wind-PV, Microhydel-PV	2		Dt. 22. 04. 2024 , Dt. 23. 04. 2024
	5 7. Electric and hybrid electric vehicles	3		Dt. 24. 04. 2024, Dt. 25. 04. 2024, Dt. 26. 04. 2024.

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P.C.I.E.T., CHHENDIPADA, DIST- ANGUL				
THEORY LESSON PLAN FOR THE SESSION 2023 - 24				
BRANCH : ELECTRICAL ENGINEERING, SEMESTER : 6TH SECTION : EB		NAME OF THE FACULTY : (1) ER. SUBHASHREE PRADHAN (HOD, ELECT. ENGG.), (2) ER. RAMESH CHANDRA PRADHAN, (3) ER. BISWARANJAN JENA (LECT. IN ELECT. ENGG.)		
SEMESTER FROM : 16.01.2024 to 26.04.2024		THEORY SUBJECT: ELECTRICAL INSTALLATION & ESTIMATING (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 INDIAN ELECTRICITY RULES	6	JANUARY	
	1.1 Definitions, Ampere, Apparatus, Accessible, Bare, cable, circuit, circuit breaker, conductor voltage (low, medium, high, EH), live, dead, cut-out, conduit, system, danger, Installation, earthing system, span, volt, switch gear, etc	2		Dt. 16.01.2024 Dt. 17.01.2024
	1.2 General safety precautions, rule 29, 30, 31, 32, 33, 34, 35, 36, 40, 41, 43, 44, 45, 46.	1		Dt. 18.01.2024
	1.3 General conditions relating to supply and use of energy : rule 47, 48, 49, 50, 51, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 70.	2		Dt. 19.01.2024 Dt. 22.01.2024
	1.4 OH lines : Rule 74, 75, 76, 77, 78, 79, 80, 86, 87, 88, 89, 90, 91	1		Dt. 24.01.2024
2	UNIT-2 ELECTRICAL INSTALLATIONS	12		
	2. 1 Electrical installations, domestics, industrial, Wiring System, Internal distribution of Electrical Energy. Methods of wiring, systems of wiring, wire and cable, conductor materials used in cables, insulating materials mechanical protection. Types of cables used in internal wiring, multi-stranded cables, voltage grinding of cables, general specifications of cables.	4		Dt. 25.01.2024 Dt. 29.01.2024 Dt. 30.01.2024 Dt. 31.01.2024

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	2. 2 ACCESSORIES: Main switch and distribution boards, conduits, conduit accessories and fittings, lighting accessories and fittings, fuses, important definitions, determination of size of fuse – wire, fuse units. Earthing conductor, earthing, IS specifications regarding earthing of electrical installations, points to be earthed. Determination of size of earth wire and earth plate for domestic and industrial installations. Material required for GI pipe earthing.	4	FEBRUARY	Dt. 01.02.2024 Dt. 02.02.2024 Dt. 05.02.2024 Dt. 06.02.2024
	2. 3 LIGHTING SCHEME: Aspects of good lighting services. Types of lighting schemes, design of lighting schemes, factory lighting, public lighting installations, street lighting, general rules for wiring, determination of number of points (light, fan, socket, outlets), determination of total load, determination of Number of subcircuits	4		Dt. 07.02.2024 Dt. 08.02.2024 Dt. 09.02.2024 Dt. 12.02.2024
	UNIT-3 INTERNAL WIRING	12		
	3. 1 Type of internal wiring, cleat wiring, CTS wiring, wooden casing capping, metal sheathed wiring, conduit wiring, their advantage and disadvantages comparison and applications.	2		Dt. 13.02.2024 Dt. 15.02.2024
3	3. 2 Prepare one estimate of materials required for CTS wiring for small domestic installation of one room and one verandah within 25 m2 with given light, fan & plug points.	2		Dt. 16.02.2024 Dt. 19.02.2024
	3. 3 Prepare one estimate of materials required for conduit wiring for small domestic installation of one room and one verandah within 25 m2 with given light, fan & plug points	2		Dt. 20.02.2024 Dt. 21.02.2024

Sr. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
4	3. 4 Prepare one estimate of materials required for concealed wiring for domestic installation of two rooms and one latrine, bath, kitchen & verandah within 80m2 with given light, fan & plug points.	3		Dt. 22.02.2024 Dt. 23.02.2024 Dt. 26.02.2024
	3. 5 Prepare one estimate of materials required for erection of conduct wiring to a small workshop installation about 30m2 and load within 10 KW.	3		Dt. 27.02.2024 Dt. 28.02.2024 Dt. 29.02.2024
	UNIT-4 OVER HEAD INSTALLATION	12	MARCH	
	4.1. Main components of overhead lines, line supports, factors Governing Height of pole, conductor materials, determination of size of conductor for overhead transmission line, cross arms, pole brackets and clamps, guys and stays, conductors configurations, spacing and clearances, span lengths, overhead line insulators, types of insulators, lighting arresters, danger plates, anti-climbing devices, bird guards, beads of jumpers, jumpers, tee-offs, guarding of overhead lines.	4		Dt. 01.03.2024 Dt. 04.03.2024 Dt. 06.03.2024 Dt. 07.03.2024
	4.2. Prepare an estimate of materials required for LT distribution line within load of 100 KW maximum and standard spans involving calculation of the size of conductor (from conductor chart), current carrying capacity and voltage regulation VI Sem Electrical Page 5 of 28 consideration using ACSR	4		Dt. 11.03.2024 Dt. 12.03.2024 Dt. 13.03.2024 Dt. 14.03.2024
	4.3. Prepare an estimate of materials required for LT distribution line within load of 100 KW maximum and standard spans involving calculation of the size of conductor (from conductor chart), current carrying capacity and voltage regulation consideration using ACSR.			Dt. 15.03.2024 Dt. 18.03.2024

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	4.4. Prepare an estimate of materials required for HT distribution line (11 KV) within 2 km and load of 2000 KVA maximum and standard spans involving calculation of the size of conductor (from conductor chart), current carrying capacity and voltage regulation of the size of conductor (from conductor chart), current carrying capacity and voltage regulation consider action using ACSR.	4		Dt. 19.03.2024 Dt. 20.03.2024 Dt. 21.03.2024 Dt. 22.03.2024
	UNIT 5 OVER HEAD SERVICE LINES	12		
	5. 1 Components of service lines, service line (cables and conductors), bearer wire, lacing rod. Ariel fuse, service support, energy box and meters etc.	2		Dt. 27.03.2024 Dt. 28.03.2024
	5. 2 Prepare and estimate for providing single phase supply of load of 5 KW (light, fan, socket) to a single stored residential building.	2	APRIL	Dt. 02.04.2024 Dt. 03.04.2024
5	5. 3 Prepare and estimate for providing single phase supply load of 3KW to each floor of a double stored building having separate energy meter	2		Dt. 04.04.2024 Dt. 05.04.2024
	5. 4 Prepare one estimate of materials required for service connection to a factory building with load within 15 KW using insulated wire.	3		Dt. 08.04.2024 Dt. 09.04.2024 Dt. 10.04.2024
	5. 5 Prepare one estimate of materials required for service connection to a factory building with load within 15 KW using bare conductor and insulated wire combined.	3		Dt. 12.04.2024 Dt. 15.04.2024 Dt. 16.04.2024

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	UNIT-6 ESTIMATING FOR DISTRIBUTION SUBSTATIONS	6		
6	6. 1 Prepare one materials estimate for following types of transformer substations. 6.1.1 Pole mounted substation. 6.1.2 Plinth Mounted substation.	6		Dt. 18.04.2024 , Dt. 19.04.2024 Dt. 22.04.2024 , Dt. 23.04.2024 Dt. 24.04.2024 , Dt. 25.04.2024 Dt. 26.04.2024 .

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THEORY LESSON PLAN FOR THE SESSION 2023 - 24

BRANCH : ELECTRICAL ENGINEERING, SEMESTER : 6TH
SECTION : EB

**NAME OF THE FACULTY : (1) ER. SUGYANI SAHOO,
(2) ER. SWAGAT SAHOO, (3) ER. BIJAYA KUMAR BEHERA
(LECT. IN ELECT. ENGG.)**

SEMESTER FROM : 16.01.2024 to 26.04.2024

CLASS ALLOTTED /WEEK : 04 PERIODS

THEORY SUBJECT: SWITCH GEAR AND PROTECTIVE DEVICES (TH-2)

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
1	UNIT-1 INTRODUCTION TO SWITCHGEAR	6	JANUARY	
	1.1 Essential Features of switchgear	1		Dt. 16.01.2024
	1.2 Switchgear Equipment.	1		Dt. 17.01.2024
	1.3 Bus-Bar Arrangement.	1		Dt. 18.01.2024
	1.4 Switchgear Accommodation	1		Dt. 19.01.2024
	1.5 Short Circuit.			Dt. 22.01.2024
	1.6 Short circuit.	1		Dt. 24.01.2024
	1.7 Faults in a power system.	1		Dt. 25.01.2024
2	UNIT-2 FAULT CALCULATION	10		
	2.1 Symmetrical faults on 3-phase system.	2		Dt. 29.01.2024, Dt. 30.01.2024
	2.2 Limitation of fault current.	1		Dt. 31.01.2024
	2.3 Percentage Reactance	1	FEBRUARY	Dt. 01.02.2024
	2.4 Percentage Reactance and Base KVA.	1		Dt. 02.02.2024
	2.5 Short – circuit KVA	1		Dt. 05.02.2024
	2.6 Reactor control of short circuit currents	1		Dt. 06.02.2024
	2.7 Location of reactors.	1		Dt. 07.02.2024
	2.8 Steps for symmetrical Fault calculations	1		Dt. 08.02.2024
	2.9 Solve numerical problems on symmetrical fault.	1		Dt. 09.02.2024

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
3	UNIT-3 FUSES	6		
	3.1 Desirable characteristics of fuse element	1		Dt. 12.02.2024
	3.2 Fuse Element materials.	1		Dt. 13.02.2024
	3.3 Types of Fuses and important terms used for fuses	1		Dt. 15.02.2024
	3.4 Low and High voltage fuses.	1		Dt. 16.02.2024
	3.5 Current carrying capacity of fuse element.	1		Dt. 19.02.2024
	3.6 Difference Between a Fuse and Circuit Breaker	1		Dt. 20.02.2024
4	UNIT-4 CIRCUIT BREAKERS	10		
	4.1 Definition and principle of Circuit Breaker	1		Dt. 21.02.2024
	4.2 Arc phenomenon and principle of Arc Extinction.			Dt. 22.02.2024
	4.3 Methods of Arc Extinction.	1		Dt. 23.02.2024
	4.4 Definitions of Arc voltage, Re-striking voltage and Recovery voltage.			Dt. 26.02.2024
	4.5 Classification of circuit Breakers.	1		Dt. 27.02.2024
	4.6 Oil circuit Breaker and its classification.			Dt. 28.02.2024
	4.7 Plain break oil circuit breaker			Dt. 29.02.2024
	4.8 Arc control oil circuit breaker.	1	MARCH	Dt. 01.03.2024
	4.9 Low oil circuit breaker.	1		Dt. 04.03.2024
	4.10 Maintenance of oil circuit breaker			Dt. 06.03.2024

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
5	4.11 Air-Blast circuit breaker and its classification.	1		Dt. 07.03.2024
	4.12 Sulphur Hexa-fluoride (SF6) circuit breaker.			Dt. 11.03.2024
	4.13 Vacuum circuit breakers.	1		Dt. 12.03.2024
	4.14 Switchgear component	1		Dt. 13.03.2024
	4.15 Problems of circuit interruption			Dt. 14.03.2024
	4.16 Resistance switching.	1		Dt. 15.03.2024
	4.17 Circuit Breaker Rating	1		Dt. 18.03.2024
	UNIT-5 PROTECTIVE RELAYS	8		
	5.1 Definition of Protective Relay.	1		Dt. 19.03.2024
	5.2 Fundamental requirement of protective relay.	1		Dt. 19.03.2024
	5.3 Basic Relay operation 5.3.1. Electromagnetic Attraction type 5.3.2. Induction type	1		Dt. 20.03.2024
	5.4 Definition of following important terms			Dt. 20.03.2024
	5.5 Definition of following important terms. 5.5.1. Pick-up current. 5.5.2. Current setting. 5.5.3. Plug setting Multiplier. 5.5.4. Time setting Multiplier.	1		Dt. 21.03.2024
	5.6 Classification of functional relays	1		Dt. 22.03.2024
	5.7 Induction type over current relay (Non-directional)	1		Dt. 27.03.2024
	5.8 Induction type directional power relay.			Dt. 28.03.2024
	5.9 Induction type directional over current relay	1	APRIL	Dt. 12.04.2024
	5.10 Differential relay 5.10.1. Current differential relay 5.10.2. Voltage balance differential relay.	1		Dt. 13.04.2024
	5.11 Types of protection	1		Dt. 13.04.2024

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
6	UNIT-6 PROTECTION OF ELECTRICAL POWER EQUIPMENT AND LINES	6		
	6.1 Protection of alternator	1		Dt. 04.04.2024
	6.2 Differential protection of alternators.			Dt. 05.04.2024
	6.3 Balanced earth fault protection.	1		Dt. 08.04.2024
	6.4 Protection systems for transformer			Dt. 09.04.2024
	6.5 Buchholz relay.	1		Dt. 10.04.2024
	6.6 Protection of Bus bar			Dt. 12.04.2024
	6.7 Protection of Transmission line.	1		Dt. 15.04.2024
	6.8 Different pilot wire protection (Merz-price voltage Balance system)	1		Dt. 16.04.2024
	6.9 Explain protection of feeder by over current and earth fault relay	1		Dt. 16.04.2024
7	UNIT -7 PROTECTION AGAINST OVER VOLTAGE AND LIGHTING	8		
	7.1. Voltage surge and causes of over voltage.	1		Dt. 16.04.2024
	7.2. Internal cause of over voltage.	1		Dt. 18.04.2024
	7.3. External cause of over voltage (lighting)	1		Dt. 18.04.2024
	7.4. Mechanism of lightning discharge.	1		Dt. 18.04.2024
	7.5. Types of lightning strokes.	1		Dt. 19.04.2024

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	7.6. Harmful effect of lightning.	1		Dt. 19.04.2024
	7.7. Lightning arresters and Type of lightning Arresters. 7.7.1. Rod-gap lightning arrester. 7.7.2. Horn-gap arrester. 7.7.3. Valve type arrester.	1		Dt. 19.04.2024
	7.8. Surge Absorber	1		Dt. 22.04.2024
8	UNIT -8 STATIC RELAY	6		
	8. 1 Advantage of static relay.	2		Dt. 22.04.2024, Dt. 23.04.2024
	8. 2 Instantaneous over current relay.	2		Dt. 24.04.2024, Dt. 25.04.2024
	8. 3 Principle of IDMT relay.	2		Dt. 25.04.2024, Dt. 26.04.2024

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THEORY LESSON PLAN FOR THE SESSION 2023 - 24				
BRANCH : ELECTRICAL ENGINEERING, SEMESTER : 6TH SECTION : EB		NAME OF THE FACULTY : (1) ER. DEBABRATA DIBYARANJAN, (2) ER. BIBHUTI BHUSAN SAHU, (3) ER. BISHNUPRIYA SAHOO (LECT. IN ELECT.ENGG.)		
SEMESTER FROM : 16.01.2024 to 26.04.2024 CLASS ALLOTTED /WEEK : 04 PERIODS		THEORY SUBJECT: CONTROL SYSTEM ENGINEERING (TH-3)		
Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
1	UNIT-1 FUNDAMENTAL OF CONTROL SYSTEM	4	JANUARY	
	1.1. Classification of Control system	1		Dt. 16.01.2024
	1.2. Open loop system & Closed loop system and its comparison	1		Dt. 17.01.2024
	1.3. Effects of Feed back	1		Dt. 18.01.2024
	1.4. Standard test Signals(Step, Ramp, Parabolic, Impulse Functions)	1		Dt. 19.01.2024
	1.5. Servomechanism	1		Dt. 22.01.2024
2	UNIT-2 MATHEMATICAL MODEL OF A SYSTEM	4		
	2.1. Transfer Function & Impulse response,	1		Dt. 24.01.2024
	2.2. Properties, Advantages & Disadvantages of Transfer Function	1		Dt. 25.01.2024
	2.3. Poles & Zeroes of transfer Function	1		Dt. 29.01.2024
	2.4. Simple problems of transfer function of network.	1		Dt. 30.01.2024
	2.5. Mathematical modeling of Electrical Systems(R, L, C, Analogous systems)	1		Dt. 31.01.2024

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
3	UNIT-3 CONTROL SYSTEM COMPONENTS	4	FEBRUARY	
	3.1. Components of Control System	2		Dt. 01.02.2024 , Dt. 02.02.2024
	3.2. Gyroscope, Synchros, Tachometer, DC servomotors, Ac Servomotors.	2		Dt. 05.02.2024 , Dt. 06.02.2024
4	UNIT-4 BLOCK DIAGRAM ALGEBRA & SIGNAL FLOW GRAPHS	8		
	4.1. Definition: Basic Elements of Block Diagram	1		Dt. 07.02.2024
	4.2. Canonical Form of Closed loop Systems	1		Dt. 08.02.2024
	4.3. Rules for Block diagram reduction	1		Dt. 09.02.2024
	4.4. Procedure for of Reduction of Block Diagram	1		Dt. 12.02.2024
	4.5. Simple Problem for equivalent transfer function	1		Dt. 13.02.2024
	4.6. Basic Definition in Signal Flow Graph & properties	1		Dt. 15.02.2024
	4.7. Construction of Signal Flow graph from Block diagram	1		Dt. 16.02.2024
	4.8. Mason's Gain formula	1		Dt. 19.02.2024
5	4.9. Simple problems in Signal flow graph for network	1		Dt. 20.02.2024
	UNIT-5 TIME RESPONSE ANALYSIS	10		
	5.1 Time response of control system.	5		Dt. 20.02.2024 , Dt. 21.02.2024 , Dt. 22.02.2024 , Dt. 23.02.2024
	5.2 Standard Test signal. 5.2.1. Step signal, 5.2.2. Ramp Signal 5.2.3. Parabolic Signal 5.2.4. Impulse Signal	3		Dt. 23.02.2024 , Dt. 26.02.2024 Dt. 27.02.2024

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
6	5.3 Time Response of first order system with: 5.3.1 Unit step response, 5.3.2 Unit impulse response	2	MARCH	Dt. 28.02.2024 Dt. 29.02.2024
	5.4 Time response of second order system to the unit step input : 5.4.1 Time response specification, 5.4.2 Derivation of expression for rise time, peak time, peak overshoot, settling time and steady state error, 5.4.3 Steady state error and error constants, 5.5 Types of control system (Steady state errors in Type-0, Type-1, Type-2 system, 5.6 Effect of adding poles and zero of transfer function, 5.7 Response with P, PI, PD and PID Controller.	1		Dt. 01.03.2024
	ANALYSIS OF STABILITY BY ROOT LOCUS TECHNIQUE	10		
	6.1 Root locus concept	2		Dt. 04.03.2024 , Dt. 06.03.2024
	6.2 Construction of root loci	2		Dt. 07.03.2024 , Dt. 11.03.2024
7	6.3 Rules for construction of the root locus	2	APRIL	Dt. 12.03.2024 , Dt. 13.03.2024
	6.4 Effect of adding poles and zeros to G(s) and H(s)	2		Dt. 14.03.2024 , Dt. 15.03.2024
	FREQUENCY RESPONSE ANALYSIS	10		
	7.1 Correlation between time response and frequency response	3		Dt. 18.03.2024 , Dt. 19.03.2024 , Dt. 20.03.2024
	7.2 Polar plots	3		Dt. 21.03.2024 , Dt. 22.03.2024 , Dt. 27.03.2024
7	7.3 Bode plots	1		Dt. 28.03.2024
	7.4 All pass and minimum phase system	3		Dt. 02.04.2024 , Dt. 03.04.2024 , Dt. 04.04.2024

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
8	7.5 Computation of Gain margin and phase margin	3		Dt. 05.04.2024, Dt. 08.04.2024, Dt. 09.04.2024
	7.6 Log magnitude versus phase plot	3		Dt. 10.04.2024, Dt. 12.04.2024, Dt. 15.04.2024
	7.7 Closed loop frequency response	2		Dt. 15.04.2024, Dt. 16.04.2024
	NYQUIST PLOT	10		
	8.1 Principle of argument	1		Dt. 18.04.2024
	8.2 Nyquist stability criterion	1		Dt. 19.04.2024
	8.3 Nyquist stability criterion applied to inverse polar plot	1		Dt. 22.04.2024
	8.4 Effect of addition of poles and zeros to G(S), H(S) on the shape of Nyquist plot	1		Dt. 23.04.2024
	8.5 Assessment of relative stability	1		Dt. 24.04.2024
	8.6 Constant M and N circle	1		Dt. 25.04.2024
	8.7 Nicholas chart	1		Dt. 26.04.2024

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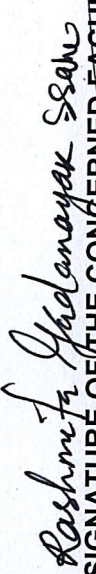
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Purna Chandra Institute of Engineering & Technology
CHHENDIPADA, ANGUL

P.C.I.E.T., CHHENDIPADA, DIST- ANGUL				
THEORY LESSON PLAN FOR THE SESSION 2023 - 24				
BRANCH : ELECTRICAL ENGINEERING, SEMESTER : 6TH SECTION : EB		NAME OF THE FACULTY : (1) ER. RASHMITA GADANAYAK, (2) ER. SWAGAT SAHOO, (3) ER. SUSHIL KUMAR MAJHI (LECT. IN ELECT. ENGG.)		
SEMESTER FROM : 16.01.2024 to 26.04.2024 CLASS ALLOTTED /WEEK : 04 PERIODS		THEORY SUBJECT: RENEWABLE ENERGY SYSTEM (TH-4B)		
Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
1	UNIT-1 INTRODUCTION TO RENEWABLE ENERGY	5	JANUARY	
	1.1. Environmental consequences of fossil fuel use	1		Dt. 16.01.2024
	1.2. Importance of renewable sources of energy	1		Dt. 17.01.2024
	1.3. Sustainable Design and development	1		Dt. 18.01.2024
	1.4. Types of RE sources	1		Dt. 19.01.2024
	1.5. Limitations of RE sources	1		Dt. 22.01.2024
	1.6. Present Indian and international energy scenario of conventional and RE sources	1		Dt. 24.01.2024
2	UNIT-2 SOLAR ENERGY	15		
	2.1. Solar photovoltaic system-Operating principle	2		Dt. 24.01.2024, Dt. 25.01.2024
	2.2. Photovoltaic cell concepts 2.2.1. Cell, module, array, Series and parallel connections. Maximum power point tracking (MPPT).	3		Dt. 25.01.2024, Dt. 29.01.2024
	2.3. Classification of energy Sources	2		Dt. 30.01.2024
	2.4. Extra-terrestrial and terrestrial Radiation	3	FEBRUARY	Dt. 20.01.2024, Dt. 31.01.2024
	2.5. Azimuth angle, Zenith angle, Hour angle, Irradiance, Solar constant	2		Dt. 01.02.2024, Dt. 02.02.2024, Dt. 05.02.2024 Dt. 06.02.2024, Dt. 07.02.2024

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
3	2.6. Solar collectors, Types and performance characteristics	2		Dt. 08.02.2024 , Dt. 09.02.2024
	2.7. Applications: Photovoltaic - battery charger, domestic lighting, street lighting, water pumping, solar cooker, Solar Pond	1		Dt. 12.02.2024
	UNIT-3 WIND ENERGY	12		
	3.1. Introduction to Wind energy	2		Dt. 12.02.2024 , Dt. 13.02.2024
	3.2. Wind energy conversion	2		Dt. 15.02.2024, Dt. 16.02.2024
	3.3. Types of wind turbines	1		Dt. 19.02.2024
	3.4. Aerodynamics of wind rotors	1		Dt. 20.02.2024
	3.5. Wind turbine control systems; conversion to electrical power	1		Dt. 21.02.2024
	3.6. Induction and synchronous generators	1		Dt. 22.02.2024
	3.7. Grid connected and self excited induction generator operation	1		Dt. 23.02.2024
4	3.8. Constant voltage and constant frequency generation with power electronic control	1		Dt. 26.02.2024
	3.9. Single and double output systems.	1		Dt. 27.02.2024
	3.10. Characteristics of wind power plant	1		Dt. 28.02.2024
	UNIT-4 BIOMASS POWER	12		
	4.1. Energy from Biomass	2		Dt. 25.02.2024 , Dt. 29.02.2024
	4.2. Biomass as Renewable Energy Source	1		Dt. 29.02.2024
	4.3. Types of Biomass Fuels - Solid, Liquid and Gas	1		Dt. 29.02.2024

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	4.4. Combustion and fermentation	2	MARCH	Dt. 01.03.2024, Dt. 04.03.2024, Dt. 06.03.2024
	4.5. Anaerobic digestion	1		Dt. 07.03.2024, Dt. 11.03.2024, Dt. 12.03.2024
	4.6. Types of biogas digester	1		Dt. 13.03.2024, Dt. 14.03.2024, Dt. 15.03.2024
	4.7. Wood gassifier	1		Dt. 16.03.2024, Dt. 19.03.2024, Dt. 20.03.2024
	4.8. Pyrolysis	2		Dt. 21.03.2024, Dt. 22.03.2024, Dt. 27.03.2024
	4.9. Applications: Bio gas, Bio diesel	1		Dt. 28.03.2024, Dt. 02.04.2024
	UNIT-5 OTHER ENERGY SOURCES	16		
	5.1. Tidal Energy: Energy from the tides, Barrage and Non Barrage Tidal power systems	3		Dt. 03.04.2024, Dt. 04.04.2024, Dt. 05.04.2024
	5.2. Ocean Thermal Energy Conversion (OTEC)	2		Dt. 08.04.2024, Dt. 09.04.2024, Dt. 10.04.2024
	5.3. Geothermal Energy – Classification	3		Dt. 12.04.2024, Dt. 13.04.2024, Dt. 14.04.2024
	5.4. Hybrid Energy Systems	2		Dt. 15.04.2024, Dt. 16.04.2024, Dt. 18.04.2024
	5.5. Need for Hybrid Systems	2		Dt. 19.04.2024, Dt. 22.04.2024, Dt. 23.04.2024
	5.6. Diesel-PV, Wind-PV, Microhydel-PV	2		Dt. 24.04.2024, Dt. 24.04.2024
	5.7. Electric and hybrid electric vehicles	3		Dt. 24.04.2024, Dt. 25.04.2024, Dt. 26.04.2024



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P.C.I.E.T., CHHENDIPADA, DIST-ANGUL					
PRACTICAL LESSON PLAN FOR THE SESSION 2023 - 24					
BRANCH:-ELECTRICAL ENGG.			SEMESTER: 6TH		
NAME OF THE FACULTY : (1) ER. SUBHASHREE PRADHAN (H.O.D., ELECT. ENGG.), (2) ER. SUSHIL KUMAR MAJHI, (LECT. IN ELECT. ENGG.), (3) ER. LILY NAYAK (T.A., ELECT. ENGG.)			SECTION : EA1		
SEMESTER FROM DT. 16.01.2024 TO 26.04.2024			PRACTICAL SUBJECT: ELECTRICAL WORKSHOP PRACTICE (PR-1)		
CLASS ALLOTTED /WEEK :06 PERIODS					
Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOB TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES	
1	Identification of single core (SC), twin core (TC), three cores (3c), four cores (4c); copper and aluminum PVC, VIR & Weather proof (WP) wire and prepare Britannia T- joint and Married joint.	JANUARY	2	Dt. 18.01.2024 Dt. 22.01.2024	
2	Cutting copper and aluminum cable and crimping lug to them from 2.5mm2 to 6 mm2 cross section.		2	Dt. 25.01.2024 Dt. 29.01.2024	
3	Connection and testing of fluorescent tube light, high pressure M.V. lamp, sodium vapor lamp, M.H lamp, CFL and latest model lamps – measure inductance, Lux/ lumens (intensity of illumination) in each case- prepare lux table .	FEBRUARY	3	Dt. 01.02.2024 Dt. 05.02.2024 Dt. 08.02.2024	
4	Study battery charger and make charging of lead acid battery (record charging voltage, current and specific gravity).		3	Dt. 12.02.2024 Dt. 15.02.2024 Dt. 19.02.2024	
5	Erection of residential building wiring by CTS and conduit wiring system using main two points and test installation by test lamp method and a meggar.		3	Dt. 22.02.2024 Dt. 26.02.2024 Dt. 29.02.2024	
6	Fault finding & repairing of Ceiling Fan – prepare an inventory list of parts.	MARCH	2	Dt. 04.03.2024 Dt. 07.03.2024	

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOB TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
7	Find out fault of D.C. generator, repair and test it to run.		2	Dt. 11.03.2024 Dt. 14.03.2024
8	Find out fault of D.C. motor starters and A.C motor starter – prepare an inventory list of parts used in different starters.		3	Dt. 18.03.2024 Dt. 21.03.2024 Dt. 28.03.2024
9	Dismantle, over haul and assemble a single phase induction motor. Test and run it. – prepare an inventory list.	April	2	Dt. 04.04.2024 Dt. 08.04.2024
10	Dismantle over haul and assemble a three phase squirrel cage and phase wound motor. Test and run them.		2	Dt. 15.04.2024 Dt. 18.04.2024
11	Overhaul a single phase and 3-phase variac.		2	Dt. 22.04.2024 Dt. 25.04.2024

S. pradhan
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PRACTICAL LESSON PLAN FOR THE SESSION 2023 - 24

BRANCH:-ELECTRICAL ENGG.

SEMESTER: 6TH

SECTION : EA1

NAME OF THE FACULTY : (1) ER. SUBHASHREE PRADHAN (H.O.D., ELECT. ENGG)., (2) ER. RAMESH CHANDRA PRADHAN, (3) ER. PRADYUMNA GARNAIK, (4) ER. SUGYANI SAHOO, (5) ER. SAKTIDATTA PRADHAN (LECT. IN ELECT. ENGG.),

SEMESTER FROM DT. 16.01.2024 TO 26.04.2024

PRACTICAL SUBJECT: PROJECT PHASE-2 (PR-2)

CLASS ALLOTTED /WEEK : 08 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOB/ BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
1	Selection of project assignment	JANUARY	3	01.16.01.2024, Dt. 17.01.2024 Dt. 20.01.2024.
2	Planning and execution of considerations		3	Dt. 24.01.2024, Dt. 30.01.2024 Dt. 31.01.2024
3	Quality of performance	FEBRUARY	4	Dt. 03.02.2024, Dt. 06.02.2024 Dt. 07.02.2024, Dt. 13.02.2024
4	Providing solution of the problems or production of final product		5	Dt. 17.02.24, Dt. 20.02.24, Dt. 21.02.24 Dt. 27.02.2024, Dt. 28.02.2024
5	Sense of responsibility	MARCH	3	Dt. 02.03.2024, Dt. 06.03.2024 Dt. 12.03.2024
6	Self expression/ communication/ Presentation skills		3	Dt. 13.03.2024, Dt. 16.03.2024 Dt. 19.03.2024
7	Interpersonal skills/human relations		3	Dt. 20.03.2024, Dt. 27.03.24 Dt. 30.03.2024
8	Report writing skills	APRIL	3	Dt. 02.04.2024, Dt. 03.04.2024 Dt. 06.04.2024
9	Viva voce		3	Dt. 09.04.2024, Dt. 10.04.2024 Dt. 16.04.2024
10			3	Dt. 20.04.2024, Dt. 23.04.2024 Dt. 24.04.2024

S. Pradhaan *S. Pradhaan*
S. Sahoo *S. Sahoo*
Pradyumna Garhwa *Pradyumna Garhwa*

S. Pradhaan

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PRACTICAL LESSON PLAN FOR THE SESSION 2023 - 24					
BRANCH:-ELECTRICAL ENGG.			SEMESTER: 6TH		
NAME OF THE FACULTY : (1) ER. SUVENDU SEKHAR BEHERA, (2) ER. PRADYUMNA GARNAIK (LECT. IN ELECT. ENGG.)			SECTION : EA1		
SEMESTER FROM DT. 16.01.2024 TO 26.04.2024			PRACTICAL SUBJECT: LIFE SKILL (PR-3)		
CLASS ALLOTTED /WEEK : 02 PERIODS					
Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES	
1	SOCIAL SKILL	JANUARY	1	Dt. 20.01.2024	
2	PROBLEM SOLVING	FEBRUARY	2	Dt. 03.02.2024 Dt. 07.02.2024	
3	PRESENTATION SKILL	MARCH	1	Dt. 02.03.2024	
4	GROUP DISCUSSION & INTERVIEW TECHNIQUES		1	Dt. 16.03.2024	
5	WORKING IN TEAM		1	Dt. 20.03.2024	
6	TASK MANAGEMENT	APRIL	2	Dt. 06.04.2024 Dt. 20.04.2024	
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PRACTICAL LESSON PLAN FOR THE SESSION 2023 - 24					
BRANCH:- ELECTRICAL ENGG.			SEMESTER: 6TH		SECTION : EA1
NAME OF THE FACULTY : (1) ER. BISHNUPRIYA SAHOO, (2) ER. BIBHUTI BHUSAN SAHU (LECT. IN ELECT. ENGG.)					
SEMESTER FROM DT.16.01.2024 TO 26.04.2024					
CLASS ALLOTTED /WEEK :- 03 PERIODS					
PRACTICAL SUBJECT: STUDENT CENTRED ACTIVITIES					
Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOB TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES	
1.	QUIZ	JANUARY	1	Dt.19.01.2024	
2.	Game show	FEBRUARY	2	Dt.02.02.2024 Dt.09.02.2024	
3.	Project based learning		2	Dt.16.02.2024 Dt.23.02.2024	
4.	Small group instruction	MARCH	3	Dt.01.03.2024, Dt.15.03.24 Dt.22.03.2024	
5.	Yoga & gardening	APRIL	2	Dt.05.04.2024 Dt.12.04.2024	
6.	Art center		2	Dt.19.04.2024 Dt.26.04.2024	

Bishnupriya Sahoo
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P.C.I.E.T., CHHENDIPADA, DIST-ANGUL					
PRACTICAL LESSON PLAN FOR THE SESSION 2023 - 24					
BRANCH:-ELECTRICAL ENGG.			SEMESTER: 6TH		
NAME OF THE FACULTY : (1) ER. SUBHASHREE PRADHAN (H.O.D., ELECT. ENGG.), (2) ER. SUSHIL KUMAR MAJHI, (LECT. IN ELECT. ENGG.), (3) ER. LILY NAYAK (T.A., ELECT. ENGG.)			SECTION : EA2		
SEMESTER FROM DT. 16.01.2024 TO 26.04.2024			PRACTICAL SUBJECT: ELECTRICAL WORKSHOP PRACTICE (PR-1)		
CLASS ALLOTTED /WEEK :06 PERIODS					
S. No.	NAME OF THE PRACTICAL EXPERIMENT/JOB TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES	
1	Identification of single core (SC), twin core (TC), three cores (3c), four cores (4c); copper and aluminum PVC, VIR & Weather proof (WP) wire and prepare Britannia T-joint and Married joint.	JANUARY	2	Dt. 18.01.2024 Dt. 22.01.2024	
2	Cutting copper and aluminum cable and crimping lug to them from 2.5mm2 to 6 mm2 cross section.		2	Dt. 25.01.2024 Dt. 29.01.2024	
3	Connection and testing of fluorescent tube light, high pressure M.V. lamp, sodium vapor lamp, M.H lamp, CFL and latest model lamps – measure inductance, Lux/ lumens (intensity of illumination) in each case-prepare lux table .	FEBRUARY	3	Dt. 01.02.2024 Dt. 05.02.2024 Dt. 08.02.2024	
4	Study battery charger and make charging of lead acid battery (record charging voltage, current and specific gravity).		3	Dt. 12.02.2024 Dt. 15.02.2024 Dt. 19.02.2024	
5	Erection of residential building wiring by CTS and conduit wiring system using main two points and test installation by test lamp method and a meggar.		3	Dt. 22.02.2024 Dt. 26.02.2024 Dt. 29.02.2024	
6	Fault finding & repairing of Ceiling Fan – prepare an inventory list of parts.	MARCH	2	Dt. 04.03.2024 Dt. 07.03.2024	

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOB TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
7	Find out fault of D.C. generator, repair and test it to run.		2	Dt. 11. 03. 2024 Dt. 14. 03. 2024
8	Find out fault of D.C. motor starters and A.C motor starter – prepare an inventory list of parts used in different starters.		3	Dt. 18. 03. 2024, Dt. 21. 03. 24 Dt. 28. 03. 2024
9	Dismantle, over haul and assemble a single phase induction motor. Test and run it. – prepare an inventory list.	APRIL	2	Dt. 04. 04. 2024 Dt. 08. 04. 2024
10	Dismantle over haul and assemble a three phase squirrel cage and phase wound motor. Test and run them.		2	Dt. 15. 04. 2024 Dt. 18. 04. 2024
11	Overhaul a single phase and 3-phase variac.		2	Dt. 22. 04. 2024 Dt. 25. 04. 2024

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PRACTICAL LESSON PLAN FOR THE SESSION 2023 - 24

BRANCH:-ELECTRICAL ENGG.

SEMESTER: 6TH

SECTION : EA2

NAME OF THE FACULTY : (1) ER. SUBHASHREE PRADHAN (H.O.D., ELECT. ENGG.), (2) ER. RAMESH CHANDRA PRADHAN, (3) ER. PRADYUMNA GARNAIK, (4) ER. SUGYANI SAHOO, (5) ER. SAKTIDATTA PRADHAN (LECT. IN ELECT. ENGG.),

SEMESTER FROM DT. 16.01.2024 TO 26.04.2024

PRACTICAL SUBJECT: PROJECT PHASE-2 (PR-2)

CLASS ALLOTTED /WEEK : 08 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOB/ TASKS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
1	Selection of project assignment	JANUARY	3	01.16.01.2024, 01.17.01.2024 01.20.01.2024
2	Planning and execution of considerations		3	01.24.01.2024, 01.25.01.2024 01.31.01.2024
3	Quality of performance	FEBRUARY	4	01.03.02.2024, 01.06.02.2024 01.07.02.2024, 01.13.02.2024
4	Providing solution of the problems or production of final product		5	01.17.02.24, 01.20.02.24, 01.21.02.24 01.27.02.24, 01.28.02.2024
5	Sense of responsibility	MARCH	3	01.02.02.2024, 01.06.03.2024 01.12.03.2024
6	Self expression/ communication/ Presentation skills		3	01.13.03.2024, 01.16.03.24 01.19.03.2024
7	Interpersonal skills/human relations		3	01.20.03.2024, 01.27.03.24 01.30.03.2024
8	Report writing skills	APRIL	3	01.02.04.2024, 01.03.04.2024 01.06.04.2024
9	Viva voce		3	01.09.04.2024, 01.10.04.2024 01.16.04.2024
10			3	01.20.04.2024, 01.23.04.2024 01.24.04.2024

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P.C.I.E.T., CHHENDIPADA, DIST- ANGUL					
PRACTICAL LESSON PLAN FOR THE SESSION 2023 - 24					
BRANCH:-ELECTRICAL ENGG.			SECTION : EA2		
SEMESTER: 6TH					
NAME OF THE FACULTY : (1) ER. SUVENDU SEKHAR BEHERA, (2) ER. PRADYUMNA GARNAIK (LECT. IN ELECT. ENGG.)					
SEMESTER FROM DT. 16.01.2024 TO 26.04.2024					
PRACTICAL SUBJECT: LIFE SKILL (PR-3)					
CLASS ALLOTTED /WEEK : 02 PERIODS					
Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOB/ TASKS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES	
1	SOCIAL SKILL	JANUARY	1	Dt. 20.01.2024	
2	PROBLEM SOLVING	FEBRUARY	2	Dt. 03.02.2024 Dt. 07.02.2024	
3	PRESENTATION SKILL	MARCH	1	Dt. 02.03.2024	
4	GROUP DISCUSSION & INTERVIEW TECHNIQUES		1	Dt. 16.03.2024	
5	WORKING IN TEAM		1	Dt. 30.03.2024	
6	TASK MANAGEMENT	APRIL	2	Dt. 06.04.2024 Dt. 20.04.2024	
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S. Pradhan
 SIGNATURE OF THE H.O.D.

P. S. Das
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PRACTICAL LESSON PLAN FOR THE SESSION 2023 - 24					
BRANCH:- ELECTRICAL ENGG.		SEMESTER: 6TH		SECTION : EA2	
NAME OF THE FACULTY : (1) ER. BISHNUPRIYA SAHOO, (2) ER. BIBHUTI BHUSAN SAHU (LECT. IN ELECT. ENGG.)					
SEMESTER FROM DT.16.01.2024 TO 26.04.2024					
PRACTICAL SUBJECT: STUDENT CENTRED ACTIVITIES					
CLASS ALLOTTED /WEEK :- 03 PERIODS					
Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOB TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES	
1.	Quiz	JANUARY	1	Dt. 19.01.2024	
2.	Game show	FEBRUARY	2	Dt. 02.02.2024 Dt. 09.02.2024	
3.	Project based learning		2	Dt. 16.02.2024 Dt. 23.02.2024	
4.	Small group instruction	MARCH	3	Dt. 01.03.2024, Dt. 15.03.2024 Dt. 22.03.2024	
5.	Yoga & gardening	APRIL	2	Dt. 05.04.2024 Dt. 12.04.2024	
6.	Art center		2	Dt. 19.04.2024 Dt. 26.04.2024	

Bishnupriya Sahoo
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S. Pradham

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PRACTICAL LESSON PLAN FOR THE SESSION 2023 - 24					
BRANCH:-ELECTRICAL ENGG.			SECTION : EB1		
NAME OF THE FACULTY : (1) ER. SUBHASHREE PRADHAN (H.O.D., ELECT. ENGG., (2) ER. BIBHUTI BHUSAN SAHU, (3) ER. SUSHIL KUMAR MAJHI, (4) ER. DEBABRATA DIBYARANJAN (LECT. IN ELECT. ENGG.)			SEMESTER: 6TH		
SEMESTER FROM DT. 16.01.2024 TO 26.04.2024			PRACTICAL SUBJECT: ELECTRICAL WORKSHOP PRACTICE (PR-1)		
CLASS ALLOTTED /WEEK :06 PERIODS					
Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOB TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES	
1	Identification of single core (SC), twin core (TC), three cores (3c), four cores (4c); copper and aluminum PVC, VIR & Weather proof (WVP) wire and prepare Britannia T- joint and Married joint.	JANUARY	2	Dt. 17.01.2024 Dt. 24.01.2024	
2	Cutting copper and aluminum cable and crimping lug to them from 2.5mm2 to 6 mm2 cross section.		2	Dt. 30.01.2024 Dt. 31.01.2024	
3	Connection and testing of fluorescent tube light, high pressure M.V. lamp, sodium vapor lamp, M.H lamp, CFL and latest model lamps – measure inductance, Lux/ lumens (intensity of illumination) in each case- prepare lux table .	FEBRUARY	4	Dt. 06.02.2024 Dt. 07.02.2024 Dt. 13.02.2024 Dt. 20.02.2024	
4	Study battery charger and make charging of lead acid battery (record charging voltage, current and specific gravity).		3	Dt. 21.02.2024 Dt. 27.02.2024 Dt. 28.02.2024	
5	Erection of residential building wiring by CTS and conduit wiring system using main two points and test installation by test lamp method and a meggar.	MARCH	2	Dt. 06.03.2024 Dt. 12.03.2024	
6	Fault finding & repairing of Ceiling Fan – prepare an inventory list of parts.		2	Dt. 13.03.2024 Dt. 19.03.2024	

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOB TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
7	Find out fault of D.C. generator, repair and test it to run.		2	Dt. 20.03.2024 Dt. 27.03.2024
8	Find out fault of D.C. motor starters and A.C motor starter – prepare an inventory list of parts used in different starters.	APRIL	2	Dt. 02.04.2024 Dt. 03.04.2024
9	Dismantle, over haul and assemble a single phase induction motor. Test and run it. – prepare an inventory list.		2	Dt. 09.04.2024 Dt. 10.04.2024
10	Dismantle over haul and assemble a three phase squirrel cage and phase wound motor. Test and run them.		2	Dt. 16.04.2024 Dt. 23.04.2024
11	Overhaul a single phase and 3-phase variac.		1	Dt. 24.04.2024

S. pradhan
B. S. Pradhan
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PRACTICAL LESSON PLAN FOR THE SESSION 2023 - 24

BRANCH:-ELECTRICAL ENGG.

SEMESTER: 6TH

SECTION : EB1

NAME OF THE FACULTY : (1) ER. DEBABRATA DIBYARANJAN, (2) ER. SWAGAT SAHOO, (3) ER. SUSHIL SAHOO, (4) ER. RASHMITA GADANAYAK (LECT. IN ELECT. ENGG.)

SEMESTER FROM DT. 16.01.2024 TO 26.04.2024

PRACTICAL SUBJECT: PROJECT PHASE-2 (PR-2)

CLASS ALLOTTED /WEEK : 08 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
1	Selection of project assignment	JANUARY	3	Dt.18.01.2024, Dt.20.01.2024 Dt.22.01.2024
2	Planning and execution of considerations		2	Dt.25.01.2024, Dt.29.01.2024
3	Quality of performance	FEBRUARY	4	Dt.05.02.2024, Dt.12.02.2024 Dt.17.02.2024, Dt.19.02.2024
4	Providing solution of the problems or production of final product		3	Dt.22.02.2024, Dt.26.02.2024 Dt.29.02.2024
5	Sense of responsibility	MARCH	4	Dt.02.03.24, Dt.04.03.2024 Dt.07.03.2024, Dt.11.03.2024
6	Self expression/ communication/ Presentation skills		4	Dt.14.03.2024, Dt.16.03.2024 Dt.18.03.2024, Dt.21.03.2024
7	Interpersonal skills/human relations		2	Dt.28.03.2024, Dt.30.03.2024
8	Report writing skills	APRIL	4	Dt.04.04.2024, Dt.06.04.2024 Dt.08.04.2024, Dt.15.04.2024
9	Viva voce		4	Dt.18.04.2024, Dt.20.04.2024 Dt.22.04.2024, Dt.25.04.2024
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Dr. Sw. S. R. Gadanya
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Dr. S. K. S.
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P.C.I.E.T., CHHENDIPADA, DIST- ANGUL					
PRACTICAL LESSON PLAN FOR THE SESSION 2023 - 24					
BRANCH:-ELECTRICAL ENGG.		SEMESTER: 6TH		SECTION : EB1	
NAME OF THE FACULTY : (1) ER. RASHMITA GADANAYAK (LECT. IN ELECT. ENGG.), (2) ER. KRUTIBASA BEHERA (T.A., ELECT. ENGG.)					
SEMESTER FROM DT. 16.01.2024 TO 26.04.2024					
PRACTICAL SUBJECT: LIFE SKILL (PR-3)					
CLASS ALLOTTED /WEEK : 02 PERIODS					
Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOB/ TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES	
1	SOCIAL SKILL	JANUARY	1	Dt. 20. 01. 2024	
2	PROBLEM SOLVING	FEBRUARY	2	Dt. 03. 02. 2024 Dt. 07. 02. 2024	
3	PRESENTATION SKILL	MARCH	2	Dt. 02. 03. 2024 Dt. 16. 03. 2024	
4	GROUP DISCUSSION & INTERVIEW TECHNIQUES		1	Dt. 30. 03. 2024	
5	WORKING IN TEAM	APRIL	1	Dt. 06. 04. 2024	
6	TASK MANAGEMENT		1	Dt. 20. 04. 2024	
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R. Gadnanayak
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PRACTICAL LESSON PLAN FOR THE SESSION 2023 - 24					
BRANCH:- ELECTRICAL ENGG.		SEMESTER: 6TH		SECTION : EB1	
NAME OF THE FACULTY : (1) ER. PRADYUMNA GARNAIK, (2) ER. SWAGAT SAHOO (LECT. IN ELECT. ENGG.)					
SEMESTER FROM DT.16.01.2024 TO 26.04.2024					
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.	Quiz	JANUARY	1	Dt. 19. 01. 2024	
2.	Game show	FEBRUARY	2	Dt. 02. 02. 2024 Dt. 09. 02. 2024	
3.	Project based learning		2	Dt. 16. 02. 2024 Dt. 23. 02. 2024	
4.	Small group instruction	MARCH	3	Dt. 01. 03. 2024 Dt. 15. 03. 2024 Dt. 22. 03. 2024	
5.	Yoga & gardening	APRIL	2	Dt. 05. 04. 2024 Dt. 12. 04. 2024	
6.	Art center		2	Dt. 19. 04. 2024 Dt. 26. 04. 2024	

Pradyumna Garnaik
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PRACTICAL LESSON PLAN FOR THE SESSION 2023 - 24					
BRANCH:-ELECTRICAL ENGG.			SEMESTER: 6TH	SECTION : EB2	
NAME OF THE FACULTY : (1) ER. SUBHASHREE PRADHAN (H.O.D., ELECT. ENGG., (2) ER. BIBHUTI BHUSAN SAHU, (3) ER. SUSHIL KUMAR MAJHI, (4) ER. DEBABRATA DIBYARANJAN (LECT. IN ELECT. ENGG.)					
SEMESTER FROM DT. 16.01.2024 TO 26.04.2024			PRACTICAL SUBJECT: ELECTRICAL WORKSHOP PRACTICE (PR-1)		
CLASS ALLOTTED /WEEK :06 PERIODS					
Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES	
1	Identification of single core (SC), twin core (TC), three cores (3c), four cores (4c); copper and aluminum PVC, VIR & Weather proof (WP) wire and prepare Britannia T- joint and Married joint.	JANUARY	2	Dt. 17.01.2024 Dt. 24.01.2024	
2	Cutting copper and aluminum cable and crimping lug to them from 2.5mm2 to 6 mm2 cross section.		2	Dt. 30.01.2024 Dt. 31.01.2024	
3	Connection and testing of fluorescent tube light, high pressure M.V. lamp, sodium vapor lamp, M.H lamp, CFL and latest model lamps – measure inductance, Lux/ lumens (intensity of illumination) in each case- prepare lux table .	FEBRUARY	3	Dt. 06.02.2024 Dt. 07.02.2024 Dt. 13.02.2024	
4	Study battery charger and make charging of lead acid battery (record charging voltage, current and specific gravity).		3	Dt. 20.02.2024 Dt. 21.02.2024 Dt. 24.02.2024	
5	Erection of residential building wiring by CTS and conduit wiring system using main two points and test installation by test lamp method and a meggar.		1	Dt. 28.02.2024	
6	Fault finding & repairing of Ceiling Fan – prepare an inventory list of parts.	MARCH	2	Dt. 06.03.2024 Dt. 12.03.2024	

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOB TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
7	Find out fault of D.C. generator, repair and test it to run.		2	Dt. 13.03.2024 Dt. 19.03.2024
8	Find out fault of D.C. motor starters and A.C motor starter – prepare an inventory list of parts used in different starters.		2	Dt. 20.03.2024 Dt. 27.03.2024
9	Dismantle, over haul and assemble a single phase induction motor. Test and run it. – prepare an inventory list.	APRIL	3	Dt. 02.04.2024 Dt. 03.04.2024 Dt. 09.04.2024
10	Dismantle over haul and assemble a three phase squirrel cage and phase wound motor. Test and run them.		2	Dt. 10.04.2024 Dt. 16.04.2024
11	Overhaul a single phase and 3-phase variac.		2	Dt. 23.04.2024 Dt. 24.04.2024

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PRACTICAL LESSON PLAN FOR THE SESSION 2023 - 24

BRANCH:-ELECTRICAL ENGG.

SEMESTER: 6TH

SECTION : EB2

NAME OF THE FACULTY : (1) ER. DEBABRATA DIBYARANJAN, (2) ER. SWAGAT SAHOO, (3) ER. SUSHIL SAHOO, (4) ER. RASHMITA GADANAYAK (LECT. IN ELECT. ENGG.)

SEMESTER FROM DT. 16.01.2024 TO 26.04.2024

PRACTICAL SUBJECT: PROJECT PHASE-2 (PR-2)

CLASS ALLOTTED /WEEK : 08 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOB TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
1	Selection of project assignment	JANUARY	3	Dt.18.01.2024, Dt.20.01.2024 Dt.22.01.2024
2	Planning and execution of considerations		2	Dt.25.01.2024, Dt.29.01.2024
3	Quality of performance	FEBRUARY	4	Dt.05.02.2024, Dt.12.02.2024 Dt.17.02.2024, Dt.19.02.2024
4	Providing solution of the problems or production of final product		3	Dt.22.02.2024, Dt.26.02.2024 Dt.29.02.2024
5	Sense of responsibility	MARCH	4	Dt.02.03.2024, Dt.04.03.2024 Dt.07.03.2024, Dt.11.03.2024
6	Self expression/ communication/ Presentation skills		4	Dt.14.03.2024, Dt.16.03.2024 Dt.18.03.2024, Dt.21.03.2024
7	Interpersonal skills/human relations		2	Dt.28.03.2024, Dt.30.03.2024
8	Report writing skills	APRIL	4	Dt.04.04.2024, Dt.06.04.2024 Dt.08.04.2024, Dt.15.04.2024
9	Viva voce		4	Dt.18.04.2024, Dt.20.04.2024 Dt.22.04.2024, Dt.25.04.24
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Swagat S. Sahoo
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PRACTICAL LESSON PLAN FOR THE SESSION 2023 - 24					
BRANCH:-ELECTRICAL ENGG.			SEMESTER: 6TH		SECTION : EB2
NAME OF THE FACULTY : (1) ER. RASHMITA GADANAYAK (LECT. IN ELECT. ENGG.), (2) ER. KRUTIBASA BEHERA (T.A., ELECT. ENGG.)					
SEMESTER FROM DT. 16.01.2024 TO 26.04.2024					
CLASS ALLOTTED /WEEK : 02 PERIODS					
Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOB/TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES	
1	SOCIAL SKILL	JANUARY	1	Dt. 20.01.2024	
2	PROBLEM SOLVING	FEBRUARY	2	Dt. 03.02.2024 Dt. 07.02.2024	
3	PRESENTATION SKILL	MARCH	2	Dt. 02.03.2024 Dt. 16.03.2024	
4	GROUP DISCUSSION & INTERVIEW TECHNIQUES	.	1	Dt. 30.03.2024	
5	WORKING IN TEAM	APRIL	1	Dt. 06.04.2024	
6	TASK MANAGEMENT		1	Dt. 20.04.2024	
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PRACTICAL LESSON PLAN FOR THE SESSION 2023 - 24					
BRANCH:- ELECTRICAL ENGG.		SEMESTER: 6TH		SECTION : EB2	
NAME OF THE FACULTY : (1) ER. PRADYUMNA GARNAIK, (2) ER. SWAGAT SAHOO (LECT. IN ELECT. ENGG.)					
SEMESTER FROM DT.16.01.2024 TO 26.04.2024					
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.	Quiz	JANUARY	1	Dt-19.01.2024	
2.	Game show	FEBRUARY	2	Dt-02.02.2024 Dt-09.02.2024	
3.	Project based learning		2	Dt-16.02.2024 Dt-23.02.2024	
4.	Small group Instruction	MARCH	3	Dt-01.03.2024 Dt-15.03.2024 Dt-22.03.2024	
5.	yoga & gardening	APRIL	2	Dt-05.04.2024 Dt-12.04.2024	
6.	Art Center		2	Dt-19.04.2024 Dt-26.04.2024	

Pradyumna Garnaik
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