

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

THEORY LESSON PLAN FOR THE SESSION 2022 - 23

**BRANCH:-MECHANICAL ENGINEERING
SECTION: MA**

SEMESTER: 6TH

NAME OF THE FACULTY : (1) ER. SHUBHAM PRADHAN, (2) ER. SAMIR PRASAD SAHU, (3) ER. RASABIHARI SAHU (LECT. IN MECH. ENGG.)

SEMESTER FROM : 13.02.2023 to 23.05.2023

THEORY SUBJECT: INDUSTRIAL ENGG. & MANAGEMENT (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	PLANT ENGINEERING	10		
	Selection of Site of Industry.	1	February	Dt. 14.02.2023
	Define plant layout.	2		Dt. 15.02.2023 , 16.02.2023
	Describe the objective and principles of plant layout.	1		Dt. 20.02.2023
	Explain Process Layout, Product Layout and Combination Layout.	1		Dt. 21.02.2023
	Techniques to improve layout	1		Dt. 22.02.2023
	Principles of material handling equipment.	1		Dt. 23.02.2023
	Plant maintenance: a)Importance of plant maintenance b)Break down maintenance C)Preventive maintenance d)Scheduled maintenance	3		Dt. 23.02.2023 , 27.02.2023 28.02.2023
2	OPERATIONS RESEARCH:	10		
	Introduction to Operations Research and its applications	2	March	Dt. 01.03.2023
	Define Linear Programming Problem	1		Dt. 02.03.2023
	Solution of L.P.P. by graphical method	3		Dt. 06.03.2023 , 09.03.2023
	Evaluation of Project completion time by Critical Path Method and PERT (Simple problems)	2		Dt. 13.03.2023 , 14.03.2023
	Explain distinct features of PERT with respect to CPM.	2		Dt. 15.03.2023 , 16.03.2023

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
3	INVENTORY CONTROL	10		
	Classification of inventory ,Objective of inventory control.	1	March	Dt. 20.03.2023
	Describe the functions of inventories.	1		Dt. 21.03.2023
	Benefits of inventory control.	1		Dt. 22.03.2023
	Costs associated with inventory	2		Dt. 23.03.2023
	Terminology in inventory control	1		Dt. 27.03.2023
	Explain and Derive economic order quantity for Basic model. (Solve numerical)	2		Dt. 28.03.2023 , 29.03.2023
	Define and Explain ABC analysis	2	April	Dt. 03.04.2023 , 04.04.2023
4	INSPECTION AND QUALITY CONTROL:	15		
	Define Inspection and Quality control.	1		Dt. 05.04.2023
	Describe planning of inspection.	2		Dt. 06.04.2023 , 10.04.2023
	Describe types of inspection.	2		Dt. 11.04.2023 , 12.04.2023
	Advantages and disadvantages of quality control.	1		Dt. 13.04.2023
	Study of factors influencing the quality of manufacture.	1		Dt. 17.04.2023
	Explain the Concept of statistical quality control, Control charts (X, R, P and C - charts).	2		Dt. 18.04.2023 , 19.04.2023
	Methods of attributes.	1		Dt. 20.04.2023
	Concept of ISO 9001-2008.	2		Dt. 24.04.2023 , 25.04.2023
	Quality management system, Registration / certification procedure, Benefits of ISO to the organization, JIT, Six sigma, 7S, Lean manufacturing ,Solve related problems	3		Dt. 26.04.2023 , 27.04.2023 03.05.2023

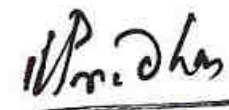
Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
5	PRODUCTION PLANNING AND CONTROL	15		
	Introduction	2	May	Dt. 04.05.2023 , 05.05.2023
	Major functions of production planning and control	3		Dt. 06.05.2023 , 10.05.2023 11.05.2023 , 12.05.2023
	Methods of forecasting: a)Routing b)Scheduling c)Dispatching d)Controlling	4		Dt. 13.05.2023 , 17.05.2023 18.05.2023
	Types of production: a)Mass production b)Batch production c)Job order production	3		Dt. 19.05.2023 , 20.05.2023 24.05.2023
	Principles of product and process planning.	3		Dt. 25.05.2023 , 26.05.2023 27.05.2023



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THEORY LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MECHANICAL ENGINEERING
 SECTION: MA

SEMESTER: 6TH

NAME OF THE FACULTY : (1) ER. TARANISEN MOHANTY (H.O.D., MECH. ENGG.), (2) ER. SUBRAJIT KUMAR NAIK, (3) ER. GOURI SANKAR PRADHAN (LECT. IN MECH. ENGG.)

SEMESTER FROM : 13.02.2023 to 23.05.2023

THEORY SUBJECT: AUTOMOBILE ENGINEERING & HYBRID VEHICLES (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	INTRODUCTION & TRANSMISSION SYSTEM :	12		
	Automobiles: Definition, need and classification: Layout of automobile chassis with major components (Line diagram)	2	February	Dt. 14.02.2023 , 15.02.2023
	Clutch System: Need, Types (Single & Multiple) and Working principle with sketch	2		Dt. 16.02.2023 , 17.02.2023
	Gear Box: Purpose of gear box, Construction and working of a 4 speed gear box	2		Dt. 20.02.2023 , 21.02.2023
	Concept of automatic gear changing mechanisms	2		Dt. 22.02.2023 , 23.02.2023
	Propeller shaft: Constructional features	2		Dt. 24.02.2023 , 27.02.2023
	Differential: Need, Types and Working principle	2		Dt. 28.02.2023 , 01.03.2023
	2 BRAKING SYSTEM	5		
Braking systems in automobiles: Need and types	1		Dt. 06.03.2023 , 09.03.2023	
Mechanical Brake	1		Dt. 10.03.2023 , 13.03.2023	
Hydraulic Brake	1		Dt. 14.03.2023	
Air Brake	1		Dt. 15.03.2023	
Air assisted Hydraulic Brake, Vacuum Brake	1		Dt. 16.03.2023	
3	IGNITION & SUSPENSION SYSTEM	10		
	Describe the Battery ignition and Magnet ignition system	1		Dt. 17.03.2023
	Spark plugs: Purpose, construction and specifications	1		Dt. 20.03.2023 ,

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	State the common ignition troubles and its remedies	2		Dt. 21.03.2023 , 22.03.2023
	Description of the conventional suspension system for Rear and Front axle	2		Dt. 23.03.2023 , 24.03.2023
	Description of independent suspension system used in cars (coil spring and tension bars)	2		Dt. 27.03.2023 , 28.03.2023
	Constructional features and working of a telescopic shock absorber	2		Dt. 29.03.2023 , 03.04.2023
	COOLING AND LUBRICATION	8		
4	Engine cooling: Need and classification	2	April	Dt. 04.04.2023 , 05.04.2023
	Describe defects of cooling and their remedial measures	2		Dt. 06.04.2023 , 08.04.2023
	Describe the Function of lubrication	2		Dt. 10.04.2023 , 11.04.2023
	Describe the lubrication System of I.C. engine	2		Dt. 12.04.2023 , 13.04.2023
	FUEL SYSTEM:	10		
5	Describe Air fuel ratio	1		Dt. 17.04.2023
	Describe Carburetion process for Petrol Engine	2		Dt. 18.04.2023 , 19.04.2023
	Describe Multipoint fuel injection system for Petrol Engine	1		Dt. 20.04.2023
	Describe the working principle of fuel injection system for multi cylinder Engine	2		Dt. 21.04.2023
	Filter for Diesel engine	2		Dt. 24.04.2023 , 25.04.2023
	Describe the working principle of Fuel feed pump and Fuel Injector for Diesel engine	2		Dt. 26.04.2023 , 27.04.2023

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6	ELECTRIC AND HYBRID VEHICLES	15		
	Introduction, Social and Environmental importance of Hybrid and Electric Vehicles	2	May	Dt. 01.05.2023 , 02.05.2023
	6.2 Description of Electric Vehicles, operational advantages, present performance and applications of Electric Vehicles	4		Dt. 03.05.2023 , 04.05.2023 08.05.2023 , 09.05.2023
	6.3 Battery for Electric Vehicles, Battery types and fuel cells	2		Dt. 10.05.2023 , 11.05.2023
	6.4 Hybrid vehicles, Types of Hybrid and Electric Vehicles: Parallel, Series, Parallel and Series configurations;	2		Dt. 12.05.2023 , 15.05.2023
	6.5 Drive train	2		Dt. 16.05.2023 , 17.05.2023
	6.6 Solar powered vehicles	3		Dt. 18.05.2023 , 22.05.2023 23.05.2023

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BRANCH:-MECHANICAL ENGINEERING
SECTION: MA

SEMESTER: 6TH

NAME OF THE FACULTY : (1) ER. DEWAN KUMAR SAHU,
(2) ER. SAMIR PRASAD SAHU (LECT. IN MECH. ENGG.)

SEMESTER FROM : 13.02.2023 to 23.05.2023

THEORY SUBJECT: POWER STATION 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
	INTRODUCTION:	5		
1	1.1 Describe sources of energy.	1	February	Dt. 14.02.2023
	1.2 Explain concept of Central and Captive power station.	1		Dt. 15.02.2023
	1.3 Classify power plants.	1		Dt. 16.02.2023
	1.4 Importance of electrical power in day today life.	1		Dt. 17.02.2023
	1.5 Overview of method of electrical power generation.	1		Dt. 20.02.2023
	THERMAL POWER STATIONS:	20		
2	2.1 Layout of steam power stations.	1		Dt. 21.02.2023
	2.2 Steam power cycle. Explain Carnot vapour power cycle with P-V, T-s diagram and determine thermal efficiency	2		Dt. 22.02.2023 , 23.02.2023
	2.3 Explain Rankine cycle with P-V, T-S & H-s diagram and determine thermal efficiency, Work done, work ratio, and specific steam Consumption.	2		Dt. 24.02.2023 , 27.02.2023
	2.4 Solve Simple Problems.	2		Dt. 28.02.2023 , 01.03.2023
	2.5. List of thermal power stations in the state with their capacities.	1	March	Dt. 02.03.2023 , 03.03.2023

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	2.6 Boiler Accessories: Operation of Air pre heater, Operation of Economiser, Operation Electrostatic precipitator and Operation of super heater. Need of boiler mountings and operation of boiler	2	March	Dt. 06.03.2023 , 09.03.2023 10.03.2023
	2.7 Draught systems (Natural draught, Forced draught & balanced draught) with their advantages & disadvantages.	2		Dt. 13.03.2023 , 14.03.2023
	2.8 Steam prime movers: Advantages & disadvantages of steam turbine, Elements of steam turbine, governing of steam turbine. Performance of steam turbine: Explain Thermal efficiency, Stage efficiency and Gross efficiency	2		Dt. 15.03.2023 , 16.03.2023 17.03.2023
	2.9 Steam condenser: Function of condenser, Classification of condenser. function of condenser auxiliaries such as hot well, condenser extraction pump, air extraction pump, and circulating pump.	2		Dt. 20.03.2023 , 21.03.2023
	2.10 Cooling Tower: Function and types of cooling tower, and spray ponds	2		Dt. 22.03.2023 , 23.03.2023
	2.11 Selection of site for thermal power stations.	2		Dt. 24.03.2023 , 27.03.2023
	NUCLEAR POWER STATIONS:	10		
3	3.1 Classify nuclear fuel (Fissile & fertile material)	1		Dt. 28.03.2023
	3.2 Explain fusion and fission reaction.	1		Dt. 29.03.2023
	3.3 Explain working of nuclear power plants with block diagram .	1	April	Dt. 03.04.2023
	3.4 Explain the working and construction of nuclear reactor .	2		Dt. 04.04.2023 , 05.04.2023

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	3.5 Compare the nuclear and thermal plants.	1	April	Dt. 06.04.2023
	3.6 Explain the disposal of nuclear waste.	1		Dt. 08.04.2023
	3.7 Selection of site for nuclear power stations.	2		Dt. 10.04.2023 , 11.04.2023
	3.8 List of nuclear power stations.	1		Dt. 12.04.2023
	DIESEL ELECTRIC POWER STATIONS:	10		
	4.1 State the advantages and disadvantages of diesel electric power stations.	2		Dt. 13.04.2023 , 17.04.2023
4	4.2 Explain briefly different systems of diesel electric power stations: Fuel storage and fuel supply system, Fuel injection system, Air supply system, Exhaust system, cooling system, Lubrication system, starting system, governing system.	3		Dt. 18.04.2023 , 19.04.2023 20.04.2023
	4.3 Selection of site for diesel electric power stations.	3		Dt. 21.04.2023, 24.04.2023 25.04.2023 , 26.04.2023
	4.4 Performance and thermal efficiency of diesel electric power stations.	2		Dt. 27.04.2023 , 28.04.2023
	HYDEL POWER STATIONS:	10		
	5.1 State advantages and disadvantages of hydroelectric power plant.	1	May	Dt. 01.05.2023
5	5.2 Classify and explain the general arrangement of storage type hydroelectric project and explain its operation.	2		Dt. 02.05.2023 , 03.05.2023
	5.3 Selection of site of hydel power plant.	2		Dt. 04.05.2023 , 08.05.2023

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	5.4 List of hydro power stations with their capacities and number of units in the state.	2	May	Dt. 09.05.2023 , 10.05.2023
	5.5 Types of turbines and generation used.	2		Dt. 11.05.2023 , 12.05.2023
	5.6 Simple problems.	1		Dt. 15.05.2023
6	GAS TURBINE POWER STATIONS	5		/
	6.1 Selection of site for gas turbine stations.	1		Dt. 16.05.2023
	6.2 Fuels for gas turbine	1		Dt. 17.05.2023
	6.3 Elements of simple gas turbine power plants	1		Dt. 18.05.2023
	6.4 Merits, demerits and application of gas turbine power plants.	2		Dt. 22.05.2023 , 23.05.2023



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SECTION: MA

SEMESTER: 6TH

NAME OF THE FACULTY : (1) ER. SUBHASHMITA JENA,
(2) ER. RASABIHARI SAHU, (3) ER. KAMALAKANTA TRIPATHY (LECT.
IN MECH. ENGG.)

SEMESTER FROM : 13.02.2023 to 23.05.2023

THEORY SUBJECT: ADVANCE MANUFACTURING PROCESSES (TH-4B)

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
	Modern Machining Processes:	20		
	1.1 Introduction – comparison with traditional machining.	1	February	Dt. 14.02.2023
	1.2 Ultrasonic Machining: principle, Description of equipment, applications.	2		Dt. 15.02.2023 , 16.02.2023
	1.3 Electric Discharge Machining: Principle, Description of equipment, Dielectric fluid, tools (electrodes), Process parameters, Output characteristics, applications.	5		Dt. 20.02.2023 , 21.02.2023 22.02.2023 , 23.02.2023
	1.4 Wire cut EDM: Principle, Description of equipment, controlling parameters; applications.	2		Dt. 27.02.2023 , 28.02.2023
1	1.5 Abrasive Jet Machining: principle, description of equipment, Material removal rate, application.	2	March	Dt. 01.03.2023 , 02.03.2023
	1.5 Laser Beam Machining: principle, description of equipment, Material removal rate, application.	2		Dt. 06.03.2023 , 09.03.2023
	1.6 Electro Chemical Machining: principle, description of equipment, Material removal rate, application.	2		Dt. 13.03.2023 , 14.03.2023
	1.7 Plasma Arc Machining – principle, description of equipment, Material removal rate, Process parameters, performance characterization, Applications.	2		Dt. 15.03.2023 , 16.03.2023
	1.8 Electron Beam Machining - principle, description of equipment, Material removal rate, Process parameters, performance characterization, Applications.	2		Dt. 20.03.2023 , 21.03.2023

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
2	Plastic Processing:	10		
	2.1 Processing of plastics.	2	March	Dt. 22.03.2023 , 23.03.2023
	2.2 Moulding processes: Injection moulding, Compression moulding, Transfer moulding.	2		Dt. 27.03.2023 , 28.03.2023
	2.3 Extruding; Casting; Calendering.	2		Dt. 29.03.2023 , 03.04.2023
	2.4 Fabrication methods-Sheet forming, Blow moulding, Laminating plastics (sheets, rods & tubes), Reinforcing.	2	April	Dt. 04.04.2023 05.04.2023
	2.5 Applications of Plastics.	2		Dt. 06.04.2023 , 10.04.2023
3	Additive Manufacturing Process:	15		
	3.1 Introduction, Need for Additive Manufacturing	2		Dt. 11.04.2023 , 12.04.2023
	3.2 Fundamentals of Additive Manufacturing, AM Process Chain	3		Dt. 13.04.2023 , 17.04.2023
	3.3 Advantages and Limitations of AM, Commonly used Terms	2		Dt. 18.04.2023 , 19.04.2023
	3.4 Classification of AM process, Fundamental Automated Processes, Distinction between AM and CNC, other related technologies.	2		Dt. 20.04.2023 , 24.04.2023
	3.5 Application –Application in Design, Aerospace Industry, Automotive Industry, Jewelry Industry, Arts and Architecture. RP Medical and Bioengineering Applications.	2		Dt. 25.04.2023 , 26.04.2023
	3.6 Web Based Rapid Prototyping Systems.	2		Dt. 27.04.2023 , 01.05.2023
	3.7 Concept of Flexible manufacturing process, concurrent engineering, production tools like capstan and turret lathes, rapid prototyping processes.	2	May	Dt. 02.05.2023 , 03.05.2023

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	Special Purpose Machines (SPM):	7		
4	4.1 Concept, General elements of SPM, Productivity improvement by SPM, Principles of SPM design.	7	May	Dt. 04.05.2023 , 08.05.2023 , 09.05.2023 10.05.2023 , 11.05.2023
	Maintenance of Machine Tools:	8		
5	5.1 Types of maintenance, Repair cycle analysis, Repair complexity, Maintenance manual, Maintenance records, Housekeeping. Introduction to Total Productive Maintenance (TPM).	8		Dt. 15.05.2023 , 16.05.2023 , 17.05.2023 18.05.2023 , 22.05.2023 , 23.05.2023

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SECTION: MB

SEMESTER: 6TH

NAME OF THE FACULTY : (1) ER. DEWAN KUMAR SAHU,
(2) ER. SHUBHAM PRADHAN (LECT. IN MECH. ENGG.)

SEMESTER FROM : 13.02.2023 to 23.05.2023


THEORY SUBJECT: INDUSTRIAL ENGG. & MANAGEMENT (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	PLANT ENGINEERING	10		
	Selection of Site of Industry.	1	February	Dt. 14.02.2023
	Define plant layout.	2		Dt. 15.02.2023 , 16.02.2023
	Describe the objective and principles of plant layout.	1		Dt. 20.02.2023
	Explain Process Layout, Product Layout and Combination Layout.	1		Dt. 21.02.2023
	Techniques to improve layout	1		Dt. 22.02.2023
	Principles of material handling equipment.	1		Dt. 23.02.2023
	Plant maintenance: a)Importance of plant maintenance b)Break down maintenance C)Preventive maintenance d)Scheduled maintenance	3		Dt. 27.02.2023 , 28.02.2023
2	OPERATIONS RESEARCH:	10		
	Introduction to Operations Research and its applications	2	March	Dt. 01.03.2023 , 02.03.2023
	Define Linear Programming Problem	1		Dt. 06.03.2023
	Solution of L.P.P. by graphical method	3		Dt. 09.03.2023 , 13.03.2023
	Evaluation of Project completion time by Critical Path Method and PERT (Simple problems)	2		Dt. 14.03.2023 , 15.03.2023
	Explain distinct features of PERT with respect to CPM.	2		Dt. 16.03.2023 , 20.03.2023

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
3	INVENTORY CONTROL	10		
	Classification of inventory ,Objective of inventory control.	1	March	Dt. 21.03.2023
	Describe the functions of inventories.	1		Dt. 22.03.2023
	Benefits of inventory control.	1		Dt. 23.03.2023
	Costs associated with inventory	2		Dt. 27.03.2023 , 28.03.2023
	Terminology in inventory control	1		Dt. 29.03.2023
	Explain and Derive economic order quantity for Basic model. (Solve numerical)	2	April	Dt. 03.04.2023 , 04.04.2023
	Define and Explain ABC analysis	2		Dt. 05.04.2023 , 06.04.2023
4	INSPECTION AND QUALITY CONTROL:	15		
	Define Inspection and Quality control.	1		Dt. 10.04.2023
	Describe planning of inspection.	2		Dt. 11.04.2023
	Describe types of inspection.	2		Dt. 12.04.2023
	Advantages and disadvantages of quality control.	1		Dt. 13.04.2023
	Study of factors influencing the quality of manufacture.	1		Dt. 17.04.2023
	Explain the Concept of statistical quality control, Control charts (X, R, P and C - charts).	2		Dt. 18.04.2023 , 19.04.2023
	Methods of attributes.	1		Dt. 20.04.2023
	Concept of ISO 9001-2008.	2		Dt. 24.04.2023 , 25.04.2023
	Quality management system, Registration / certification procedure, Benefits of ISO to the organization, JIT, Six sigma, 7S, Lean manufacturing ,Solve related problems	3		Dt. 26.04.2023 , 27.04.2023 01.05.2023

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
5	PRODUCTION PLANNING AND CONTROL	15		
	Introduction	2	May	Dt. 02.05.2023
	Major functions of production planning and control	3		Dt. 03.05.2023 , 04.05.2023 , 08.05.23
	Methods of forecasting: a)Routing b)Scheduling c)Dispatching d)Controlling	4		Dt. 09.05.2023 , 10.05.2023 11.05.2023
	Types of production: a)Mass production b)Batch production c)Job order production	3		Dt. 15.05.2023 , 16.05.2023 17.05.2023
	Principles of product and process planning.	3		Dt. 18.05.2023 , 22.05.2023 23.05.2023


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CHHENDIPADA, ANGUL

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

BRANCH:-MECHANICAL ENGINEERING
 SECTION: MB

SEMESTER: 6TH

NAME OF THE FACULTY : (1) ER. MANAS RANJAN BEHERA,
 (2) ER. SUBRAJIT KUMAR NAIK, (3) ER. GOURI SANKAR PRADHAN
 (LECT. IN MECH. ENGG.)

SEMESTER FROM : 13.02.2023 to 23.05.2023

THEORY SUBJECT: AUTOMOBILE ENGINEERING & HYBRID VEHICLES (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
	INTRODUCTION & TRANSMISSION SYSTEM :	12		
	Automobiles: Definition, need and classification: Layout of automobile chassis with major components (Line diagram)	2	February	Dt. 14.02.2023 , 15.02.2023 16.02.2023
	Clutch System: Need, Types (Single & Multiple) and Working principle with sketch	2		Dt. 16.02.2023 , 17.02.2023
1	Gear Box: Purpose of gear box, Construction and working of a 4 speed gear box	2		Dt. 20.02.2023 , 21.02.2023
	Concept of automatic gear changing mechanisms	2		Dt. 22.02.2023 , 23.02.2023
	Propeller shaft: Constructional features	2		Dt. 24.02.2023 , 27.02.2023
	Differential: Need, Types and Working principle	2		Dt. 28.02.2023 , 01.03.2023
2	BRAKING SYSTEM	5	March	
	Braking systems in automobiles: Need and types	1		Dt. 02.03.2023
	Mechanical Brake	1		Dt. 03.03.2023 , 06.03.2023
	Hydraulic Brake	1		Dt. 09.03.2023
	Air Brake	1		Dt. 10.03.2023
	Air assisted Hydraulic Brake, Vacuum Brake	1		Dt. 13.03.2023 ,
	IGNITION & SUSPENSION SYSTEM	10		
3	Describe the Battery ignition and Magnet ignition system	1		Dt. 14.03.2023
	Spark plugs: Purpose, construction and specifications	1		Dt. 15.03.2023

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	State the common ignition troubles and its remedies	2	March	Dt. 16.03.2023 17.03.2023 , 20.03.2023
	Description of the conventional suspension system for Rear and Front axle	2		Dt. 21.03.2023 , 22.03.2023
	Description of independent suspension system used in cars (coil spring and tension bars)	2		Dt. 23.03.2022 , 24.03.2023
	Constructional features and working of a telescopic shock absorber	2		Dt. 27.03.2023 , 28.03.2023
	COOLING AND LUBRICATION	8		
4	Engine cooling: Need and classification	2		Dt. 29.03.2023 , 03.04.2023
	Describe defects of cooling and their remedial measures	2	April	Dt. 03.04.2023 , 04.04.2023
	Describe the Function of lubrication	2		Dt. 05.04.2023 , 06.04.2023
	Describe the lubrication System of I.C. engine	2		Dt. 08.04.2023 , 10.04.2023, 11.04.2023
	FUEL SYSTEM:	10		
5	Describe Air fuel ratio	1		Dt. 12.04.2023 , 13.04.2023
	Describe Carburetion process for Petrol Engine	2		Dt. 17.04.2023 , 18.04.2023
	Describe Multipoint fuel injection system for Petrol Engine	1		Dt. 19.04.2023
	Describe the working principle of fuel injection system for multi cylinder Engine	2		Dt. 20.04.2023 , 21.04.2023
	Filter for Diesel engine	2		Dt. 24.04.2023 , 25.04.2023
	Describe the working principle of Fuel feed pump and Fuel Injector for Diesel engine	2		Dt. 26.04.2023 , 27.04.2023

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
6	ELECTRIC AND HYBRID VEHICLES	15		
	Introduction, Social and Environmental importance of Hybrid and Electric Vehicles	2		Dt. 28.04.2023 , 01.05.2023
	6.2 Description of Electric Vehicles, operational advantages, present performance and applications of Electric Vehicles	4	May	Dt. 02.05.2023 , 03.05.2023 04.05.2023 , 08.05.2023
	6.3 Battery for Electric Vehicles, Battery types and fuel cells	2		Dt. 09.05.2023 , 10.05.2023 11.05.2023
	6.4 Hybrid vehicles, Types of Hybrid and Electric Vehicles: Parallel, Series, Parallel and Series configurations;	2		Dt. 12.05.2023 , 15.05.2023
	6.5 Drive train	2		Dt. 16.05.2023 , 17.05.2023
	6.6 Solar powered vehicles	3		Dt. 18.05.2023 , 22.05.2023 23.05.2023



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THEORY LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MECHANICAL ENGINEERING
 SECTION: MB

SEMESTER: 6TH

NAME OF THE FACULTY : (1) ER. DEWAN KUMAR SAHU,
 (2) ER. SAMIR PRASAD SAHU (LECT. IN MECH. ENGG.)

SEMESTER FROM : 13.02.2023 to 23.05.2023

THEORY SUBJECT: POWER STATION 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	INTRODUCTION:	5	February	
	1.1 Describe sources of energy.	1		Dt. 14.02.2023
	1.2 Explain concept of Central and Captive power station.	1		Dt. 15.02.2023
	1.3 Classify power plants.	1		Dt. 16.02.2023
	1.4 Importance of electrical power in day today life.	1		Dt. 17.02.2023
	1.5 Overview of method of electrical power generation.	1		Dt. 20.02.2023
2	THERMAL POWER STATIONS:	20		
	2.1 Layout of steam power stations.	1		Dt. 21.02.2023
	2.2 Steam power cycle. Explain Carnot vapour power cycle with P-V, T-s diagram and determine thermal efficiency	2		Dt. 22.02.2023 , 23.02.2023
	2.3 Explain Rankine cycle with P-V, T-S & H-s diagram and determine thermal efficiency, Work done, work ratio, and specific steam Consumption.	2		Dt. 24.02.2023 , 27.02.2023
	2.4 Solve Simple Problems.	2		Dt. 28.02.2023 , 01.03.2023
	2.5. List of thermal power stations in the state with their capacities.	1	March	Dt. 02.03.2023 , 03.03.2023

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	2.6 Boiler Accessories: Operation of Air pre heater, Operation of Economiser, Operation Electrostatic precipitator and Operation of super heater. Need of boiler mountings and operation of boiler	2	March	Dt. 06.03.2023 , 09.03.2023 10.03.2023
	2.7 Draught systems (Natural draught, Forced draught & balanced draught) with their advantages & disadvantages.	2		Dt. 13.03.2023 , 14.03.2023
	2.8 Steam prime movers: Advantages & disadvantages of steam turbine, Elements of steam turbine, governing of steam turbine. Performance of steam turbine: Explain Thermal efficiency, Stage efficiency and Gross efficiency	2		Dt. 15.03.2023 , 16.03.2023
	2.9 Steam condenser: Function of condenser. Classification of condenser. function of condenser auxiliaries such as hot well, condenser extraction pump, air extraction pump, and circulating pump.	2		Dt. 17.03.2023 , 20.03.2023
	2.10 Cooling Tower: Function and types of cooling tower, and spray ponds	2		Dt. 21.03.2023 , 22.03.2023
	2.11 Selection of site for thermal power stations.	2		Dt. 23.03.2023 , 24.03.2023
	NUCLEAR POWER STATIONS:	10		
3	3.1 Classify nuclear fuel (Fissile & fertile material)	1		Dt. 27.03.2023 ,
	3.2 Explain fusion and fission reaction.	1		Dt. 28.03.2023
	3.3 Explain working of nuclear power plants with block diagram .	1		Dt. 29.03.2023
	3.4 Explain the working and construction of nuclear reactor .	2	April	Dt. 03.04.2023 , 04.04.2023

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	3.5 Compare the nuclear and thermal plants.	1	April	Dt. 05.04.2023
	3.6 Explain the disposal of nuclear waste.	1		Dt. 06.04.2023
	3.7 Selection of site for nuclear power stations.	2		Dt. 08.04.2023 , 10.04.2023
	3.8 List of nuclear power stations.	1		Dt. 11.04.2023
	DIESEL ELECTRIC POWER STATIONS:	10		
	4.1 State the advantages and disadvantages of diesel electric power stations.	2		Dt. 12.04.2023 , 13.04.2023
4	4.2 Explain briefly different systems of diesel electric power stations: Fuel storage and fuel supply system, Fuel injection system, Air supply system, Exhaust system, cooling system, Lubrication system, starting system, governing system.	3		Dt. 17.04.2023 , 18.04.2023 19.04.2023
	4.3 Selection of site for diesel electric power stations.	3		Dt. 20.04.2023, 21.04.2023 24.04.2023
	4.4 Performance and thermal efficiency of diesel electric power stations.	2		Dt. 25.04.2023 , 26.04.2023 2
	HYDEL POWER STATIONS:	10		
	5.1 State advantages and disadvantages of hydroelectric power plant.	1		Dt. 27.04.2023 ,
5	5.2 Classify and explain the general arrangement of storage type hydroelectric project and explain its operation.	2		Dt. 28.04.2023 , 01.05.2023
	5.3 Selection of site of hydel power plant.	2	May	Dt. 02.05.202 , 03.05.2023

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	5.4 List of hydro power stations with their capacities and number of units in the state.	2	May	Dt. 04.05.2023 , 08.05.2023 09.05.2023
	5.5 Types of turbines and generation used.	2		Dt. 10.05.2023 , 11.05.2023
	5.6 Simple problems.	1		Dt. 12.05.2023
6	GAS TURBINE POWER STATIONS	5		
	6.1 Selection of site for gas turbine stations.	1		Dt. 15.05.2023 , 16.05.2023
	6.2 Fuels for gas turbine	1		Dt. 17.05.2023
	6.3 Elements of simple gas turbine power plants	1		Dt. 18.05.2023
	6.4 Merits, demerits and application of gas turbine power plants.	2		Dt. 22.05.2023 , 23.05.2023

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THEORY LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MECHANICAL ENGINEERING
SECTION: MB

SEMESTER: 6TH

NAME OF THE FACULTY : (1) ER. RASABIHARI SAHU,
(2) ER. SUBHASHMITA JENA (LECT. IN MECH. ENGG.)

SEMESTER FROM : 13.02.2023 to 23.05.2023

THEORY SUBJECT: ADVANCE MANUFACTURING PROCESSES (TH-4B)

CLASS ALLOTTED /WEEK : 04 PERIODS

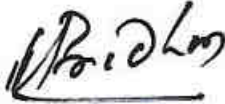
Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	Modern Machining Processes:	20	February	
	1.1 Introduction – comparison with traditional machining.	1	✓	Dt. 14.02.2023
	1.2 Ultrasonic Machining: principle, Description of equipment, applications.	2		Dt. 15.02.2023
	1.3 Electric Discharge Machining: Principle, Description of equipment, Dielectric fluid, tools (electrodes), Process parameters, Output characteristics, applications.	5		Dt. 16.02.2023 , 20.02.2023 21.02.2023 , 22.02.2023
	1.4 Wire cut EDM: Principle, Description of equipment, controlling parameters; applications.	2		Dt. 23.02.2023 , 27.02.2023
1	1.5 Abrasive Jet Machining: principle, description of equipment, Material removal rate, application.	2		Dt. 28.02.2023
	1.5 Laser Beam Machining: principle, description of equipment, Material removal rate, application.	2	March	Dt. 01.03.2023 , 02.03.2023
	1.6 Electro Chemical Machining: principle, description of equipment, Material removal rate, application.	2		Dt. 06.03.2023 09.03.2023
	1.7 Plasma Arc Machining – principle, description of equipment, Material removal rate, Process parameters, performance characterization, Applications.	2		Dt. 13.03.2023 14.03.2023
	1.8 Electron Beam Machining - principle, description of equipment, Material removal rate, Process parameters, performance characterization, Applications.	2		Dt. 15.03.2023 16.03.2023

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
2	Plastic Processing:	10	March	
	2.1 Processing of plastics.	2		Dt. 20.03.2023 , 21.03.2023
	2.2 Moulding processes: Injection moulding, Compression moulding, Transfer moulding.	2		Dt. 22.03.2023 , 23.03.2023
	2.3 Extruding; Casting; Calendering.	2		Dt. 27.03.2023
	2.4 Fabrication methods-Sheet forming, Blow moulding, Laminating plastics (sheets, rods & tubes), Reinforcing.	2		Dt. 28.03.2023 , 29.03.2023
	2.5 Applications of Plastics.	2		Dt. 29.03.2023
3	Additive Manufacturing Process:	15	April	
	3.1 Introduction, Need for Additive Manufacturing	2		Dt. 03.04.2023 04.04.2023
	3.2 Fundamentals of Additive Manufacturing, AM Process Chain	3		Dt. 05.04.2023 06.04.2023 , 10.04.2023
	3.3 Advantages and Limitations of AM, Commonly used Terms	2		Dt. 11.04.2023 , 12.04.2023
	3.4 Classification of AM process, Fundamental Automated Processes, Distinction between AM and CNC, other related technologies.	2		Dt. 13.04.2023 , 17.04.2023
	3.5 Application –Application in Design, Aerospace Industry, Automotive Industry, Jewelry Industry, Arts and Architecture. RP Medical and Bioengineering Applications.	2		Dt. 18.04.2023 , 19.04.2023
	3.6 Web Based Rapid Prototyping Systems.	2		Dt. 20.04.2023 , 24.04.2023
	3.7 Concept of Flexible manufacturing process, concurrent engineering, production tools like capstan and turret lathes, rapid prototyping processes.	2		Dt. 25.04.2023 , 26.04.2023

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
4	Special Purpose Machines (SPM):	7		
	4.1 Concept, General elements of SPM, Productivity improvement by SPM, Principles of SPM design.	7		Dt. 27.04.2023, 01.05.2023, 02.05.2023 03.05.2023, 04.05.2023, 08.05.23, 09.05.23
5	Maintenance of Machine Tools:	8		
	5.1 Types of maintenance, Repair cycle analysis, Repair complexity, Maintenance manual, Maintenance records, Housekeeping. Introduction to Total Productive Maintenance (TPM).	8		Dt. 10.05.23, 11.05.23, 15.05.23, 16.05.23 17.05.2023, 18.05.2023, 22.05.2023 23.05.2023

Subhasmita Jena. 
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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MECHANICAL ENGG.

SEMESTER: 6TH

SECTION: MA1

NAME OF THE FACULTY : (1) ER. TARANISEN MOHANTY (H.O.D., MECH. ENGG.), (2) ER. GOURI SANKAR PRADHAN, (3) ER. BIKASH RANJAN SAHU (LECT. IN MECH. ENGG.)

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

PRACTICAL SUBJECT: AUTOMOBILE ENGINEERING LAB (PR-1)

CLASS ALLOTTED /WEEK:- 04 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	Study of Automobile chassis.	Feb	02	Dt. 20.02.2023 27.02.2023
2	Study the differential mechanism of the Tractor.	March	02	Dt. 06.03.2023, 13.03.2023
3	Study the hydraulic braking system of automobile.		02	Dt. 20.03.2023, 27.03.2023
4	Study Study the cut section model of carburetor solex type and maruti car type.	April	02	Dt. 03.04.2023, 10.04.2023
5	Study the fuel pump cut section model.		02	Dt. 17.04.2023, 24.04.2023
6	Operating double acting pneumatic cylinder with quick exhaust valve	May	02	Dt. 01.05.2023, 08.05.2023
7	Study of actual car engine.		02	Dt. 15.05.2023, 22.05.2023

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Gouri Sankar Pradhan

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Bikash Ranjan Sahu

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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MECHANICAL ENGG.

SEMESTER: 6TH

SECTION : MA1

NAME OF THE FACULTY : (1) ER. SAMIR PRASAD SAHU, (2) ER. DEWAN KUMAR SAHU (LECT. IN MECH. ENGG.), (3) ER. BISHNU CHARANA BEHERA (T.A., MECH. ENGG.)

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

PRACTICAL SUBJECT: POWER STATION ENGINEERING LAB (PR-2)

CLASS ALLOTTED /WEEK:- 04 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	To study the modern steam power plant with model.	Feb	01	Dt. 21.02.2023
2	To determine the various efficiencies of steam turbine		01	Dt. 28.02.2023 ,
3	To study the cooling tower	March	02	Dt. 14.03.2023 , 21.03.2023
4	Study of jet condenser		01	Dt. 28.03.2023
5	Study of De-lavel turbine	April	02	Dt. 04.04.2023 , 11.04.2023
6	To study the spring loaded safety valve		02	Dt. 18.04.2023 , 25.04.2023
7	To study the following steam generators (boilers)models.			
	a) Lancashire boiler	May	01	Dt. 02.05.2023
	b) Cornish boiler		01	Dt. 09.05.2023
	c) Babcock & Wilcox Boiler		01	Dt. 16.05.2023
	d) Vertical water tube boiler		01	Dt. 23.05.2023

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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MECHANICAL ENGG.

SEMESTER: 6TH

SECTION : MA1

NAME OF THE FACULTY : (1) ER. SUBHASMITA JENA, (2) ER. DEWAN KUMAR SAHU, (3) ER. SUBRAJIT KUMAR NAIK (LECT. IN MECH. ENGG.), (4) R. PRADEEP KUMAR SAHU (T.A., MECH. ENGG.)


SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

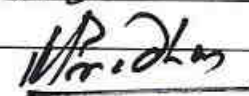
PRACTICAL SUBJECT: PROJECT PHASE - II (PR-3)

CLASS ALLOTTED /WEEK:- 10 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	Feb	04	Dt. 15.02.2023, 16.02.2023 22.02.2023, 23.02.2023
2	Planning and execution of considerations	March	04	Dt. 01.03.2023, 02.03.2023 04.03.2023, 09.03.2023
3	Quality of performance		04	Dt. 11.03.2023, 15.03.2023 16.03.2023, 18.03.2023
4	Providing solution of the problems or production of final product		04	Dt. 22.03.2023, 23.03.2023 25.03.2023, 29.03.2023
5	Sense of responsibility	April	03	Dt. 05.04.2023, 06.04.2023 08.04.2023
6	Self expression/ communication/ Presentation skills		05	Dt. 12.04.23, 13.04.23, 15.04.23 19.04.23, 20.04.2023
7	Interpersonal skills/human relations		05	Dt. 22.04.23, 26.04.23, 27.04.23 29.04.23, 03.05.2023
8	Report writing skills	May	04	Dt. 04.05.2023, 06.05.2023 10.05.23, 11.05.23
9	Viva voce		05	Dt. 13.05.23, 17.05.23, 18.05.23 20.05.2023
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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MECHANICAL ENGG.

SEMESTER: 6TH

SECTION : MA1

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

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

PRACTICAL SUBJECT : LIFE SKILLS (PR-4)

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	Feb	02	Dt. 17.02.2023 , 24.02.2023
2	PROBLEM SOLVING	March	02	Dt. 03.03.2023 , 10.03.2023
3	PRESENTATION SKILL		02	Dt. 17.03.2023 , 24.03.2023
4	GROUP DISCUSSION & INTERVIEW TECHNIQUES		02	Dt. 31.03.2023 , 07.04.2023
5	WORKING IN TEAM	April	02	Dt. 21.04.2023 , 28.04.2023
6	TASK MANAGEMENT	May	02	Dt. 12.05.2023 , 18.05.2023
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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:- MECHANICAL ENGG.

SEMESTER: 6TH

SECTION :- MA1

NAME OF THE FACULTY : (1) ER. TARANISEN MOHANTY (H.O.D., MECH. ENGG.), (2) ER. MANAS RANJAN BEHERA (LECT. IN MECH. ENGG.)

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

PRACTICAL SUBJECT: STUDENT CENTRED ACTIVITIES

CLASS ALLOTTED /WEEK :- 03 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
01	Library Study & Technical quiz	Feb	03	Dt. 21.02.2023 , 28.02.2023 03.03.2023
02	Seminar on different technical topics	March	03	Dt. 10.03.2023 , 17.03.2023 24.03.2023
03	Seminare on different environmental issues	April	03	Dt. 31.03.2023 , 07.04.2023 21.04.2023
04	Personality development classes.	May	03	Dt. 28.04.2023 , 12.05.2023 18.05.2023

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T. Mohanty

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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MECHANICAL ENGG.

SEMESTER: 6TH

SECTION: MA2

NAME OF THE FACULTY : (1) ER. TARANISEN MOHANTY (H.O.D., MECH. ENGG.), (2) ER. GOURI SANKAR PRADHAN, (3) ER. BIKASH RANJAN SAHU (LECT. IN MECH. ENGG.)

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

PRACTICAL SUBJECT: AUTOMOBILE ENGINEERING LAB (PR-1)

CLASS ALLOTTED /WEEK:- 04 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	Study of Automobile chassis.	Feb	02	Dt. 21.02.2023 , 28.02.2023
2	Study the differential mechanism of the Tractor.	March	02	Dt. 14.03.2023 , 21.03.2023
3	Study the hydraulic braking system of automobile.		02	Dt. 28.03.2023 , 04.04.2023
4	Study Study the cut section model of carburetor solex type and maruti car type.	April	02	Dt. 11.04.2023 , 18.04.2023
5	Study the fuel pump cut section model.		02	Dt. 25.04.2023 , 02.05.2023
6	Operating double acting pneumatic cylinder with quick exhaust valve	May	02	Dt. 09.05.2023 , 16.05.2023
7	Study of actual car engine.		01	Dt. 23.05.2023

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Gouri Sankar Pradhan

Bikash Ranjan Sahu

Pradhan

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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MECHANICAL ENGG.

SEMESTER: 6TH

SECTION : MA2

NAME OF THE FACULTY : (1) ER. SAMIR PRASAD SAHU, (2) ER. DEWAN KUMAR SAHU (LECT. IN MECH. ENGG.), (3) ER. BISHNU CHARANA BEHERA (T.A., MECH. ENGG.)

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

PRACTICAL SUBJECT: POWER STATION ENGINEERING LAB (PR-2)

CLASS ALLOTTED /WEEK:- 04 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	To study the modern steam power plant with model.	Feb	01	Dt. 20.02.2023
2	To determine the various efficiencies of steam turbine		02	Dt. 27.02.2023 , 06.03.2023
3	To study the cooling tower	March	02	Dt. 13.03.2023 , 20.03.2023
4	Study of jet condenser		01	Dt. 27.03.2023
5	Study of De-lavel turbine	April	02	Dt. 03.04.2023 , 10.04.2023
6	To study the spring loaded safety valve		02	Dt. 17.04.2023 , 24.04.2023
7	To study the following steam generators (boilers)models.			
	a) Lancashire boiler	May	01	Dt. 01.05.2023
	b) Cornish boiler		01	Dt. 08.05.2023
	c) Babcock & Wilcox Boiler		01	Dt. 15.05.2023
	d) Vertical water tube boiler		01	Dt. 22.05.2023

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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MECHANICAL ENGG.

SEMESTER: 6TH

SECTION : MA2

NAME OF THE FACULTY : (1) ER. SUBHASHMITA JENA, (2) ER. DEWAN KUMAR SAHU, (3) ER. SUBRAJIT KUMAR NAIK (LECT. IN MECH. ENGG.), (4) R. PRADEEP KUMAR SAHU (T.A., MECH. ENGG.)

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023


PRACTICAL SUBJECT: PROJECT PHASE - II (PR-3)

CLASS ALLOTTED /WEEK:- 10 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	Feb	04	Dt. 15.02.23 , 16.02.2023 22.02.23 , 23.02.2023
2	Planning and execution of considerations	March	04	Dt. 01.03.23 , 02.03.23 04.03.2023 , 09.03.2023
3	Quality of performance		04	Dt. 11.03.23 , 15.03.23, 16.03.23 , 18.03.23
4	Providing solution of the problems or production of final product		04	Dt. 22.03.23 , 25.03.23 25.03.23 , 29.03.23
5	Sense of responsibility	April	03	Dt. 05.04.23 , 06.04.2023 08.04.2023
6	Self expression/ communication/ Presentation skills		05	Dt. 12.04.23 , 13.04.23 , 15.04.23 19.04.23 , 20.04.2023
7	Interpersonal skills/human relations		05	Dt. 22.04.23 , 26.04.23, 27.04. 29.04.23 , 03.05.2023
8	Report writing skills	may	04	Dt. 04.05.2023 , 06.05.2023 10.05.23 , 11.05.23
9	Viva voce		04	Dt. 13.05.23 , 17.05.23 , 18.05.2023 , 20.05.2023
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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MECHANICAL ENGG.

SEMESTER: 6TH

SECTION : MA2

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

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

PRACTICAL SUBJECT : LIFE SKILLS (PR-4)

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	Feb	02	Dt. 17.02.2023 , 24.02.2023
2	PROBLEM SOLVING	March	02	Dt. 03.03.2023 , 10.03.2023
3	PRESENTATION SKILL		02	Dt. 17.03.2023 , 24.03.2023
4	GROUP DISCUSSION & INTERVIEW TECHNIQUES		02	Dt. 31.03.2023 , 07.04.2023
5	WORKING IN TEAM	April	02	Dt. 21.04.2023 , 28.04.2023
6	TASK MANAGEMENT	May	02	Dt. 12.05.2023 , 18.05.2023
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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:- MECHANICAL ENGG.

SEMESTER: 6TH

SECTION :- MA2

NAME OF THE FACULTY : (1) ER. TARANISEN MOHANTY (H.O.D., MECH. ENGG.), (2) ER. MANAS RANJAN BEHERA (LECT. IN MECH. ENGG.)

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

PRACTICAL SUBJECT: STUDENT CENTRED ACTIVITIES

CLASS ALLOTTED /WEEK :- 03 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
01.	Library Study and technical quiz	Feb	03	Dt. 17.02.2023, 24.02.2023 03.03.2023
02.	Seminar on different environmental issues	March	03	Dt. 10.03.2023, 17.03.2023 24.03.2023
03.	Personality development class	April	03	Dt. 31.03.2023, 07.04.2023 21.04.2023
04.	Seminar on different technical topics.	may	03	Dt. 28.04.2023, 12.05.2023 19.05.2023

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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MECHANICAL ENGG.

SEMESTER: 6TH

SECTION: MB1

NAME OF THE FACULTY : (1) ER. TARANISEN MOHANTY (H.O.D., MECH. ENGG.), (2) ER. GOURI SANKAR PRADHAN (LECT. IN MECH. ENGG.)

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

PRACTICAL SUBJECT: AUTOMOBILE ENGINEERING LAB (PR-1)

CLASS ALLOTTED /WEEK:- 04 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	Study of Automobile chassis.	FEB	02	Dt. 16.02.2023. 23.02.2023
2	Study the differential mechanism of the Tractor.	MARCH	02	Dt. 02.03.2023 09.03.2023
3	Study the hydraulic braking system of automobile.		02	Dt. 16.03.2023 23.03.2023
4	Study Study the cut section model of carburetor solex type and maruti car type.	APRIL	02	Dt. 06.04.2023 13.04.2023
5	Study the fuel pump cut section model.		02	Dt. 20.04.2023 27.04.2023
6	Operating double acting pneumatic cylinder with quick exhaust valve.	MAY	02	Dt. 04.05.2023 11.05.2023
7	Study of actual car engine.		01	Dt. 18.05.2023



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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MECHANICAL ENGG.

SEMESTER: 6TH

SECTION : MB1

NAME OF THE FACULTY : (1) ER. DEWAN KUMAR SAHU, (2) ER. SAMIR PRASAD SAHU (LECT. IN MECH. ENGG.)

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

PRACTICAL SUBJECT: POWER STATION ENGINEERING LAB (PR-2)

CLASS ALLOTTED /WEEK:- 04 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	To study the modern steam power plant with model.	FEB	01	Dt. 15. 02. 2023
2	To determine the various efficiencies of steam turbine		01	Dt. 22. 02. 2023
3	To study the cooling tower	MARCH	02	Dt- 01. 03. 2023 15. 03. 2023
4	Study of jet condenser		01	Dt. 22. 03. 2023
5	Study of De-level turbine.		02	Dt - 29. 03. 2023 - 05. 04. 2023
6	To study the spring loaded safety valve	APRIL	02	Dt. 12. 04. 2023 19. 04. 2023
7	To study the following steam generators (boilers)models.			
	a) Lancashire boiler		01	Dt. 26. 04. 2023
	b) Cornish boiler	MAY	01	Dt. 03. 05. 2023
	c) Babcock & Wilcox Boiler		01	Dt. 10. 05. 2023
	d) Vertical water tube boiler		01	Dt. 17. 05. 2023

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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MECHANICAL ENGG.

SEMESTER: 6TH

SECTION : MB1

NAME OF THE FACULTY : (1) ER. TARANISEN MOHANTY (H.O.D., MECH. ENGG.), (2) ER. SUBHASHMITA JENA, (3) ER. GOURI SANKAR PRADHAN,
 (4) ER. SUBRAJIT KUMAR NAIK (LECT. IN MECH. ENGG.)

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023


PRACTICAL SUBJECT: PROJECT PHASE - II (PR-3)

CLASS ALLOTTED /WEEK:- 10 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	FEB	4	Dt. 17.02.2023, 20.02.2023 24.02.2023, 25.02.2023
2	Planning and execution of considerations	MARCH	4	Dt. 27.02.2023, 03.03.2023 04.03.2023, 06.03.2023
3	Quality of performance		4	Dt. 10.03.2023, 11.03.2023 13.03.2023, 17.03.2023
4	Providing solution of the problems or production of final product		4	Dt. 18.03.2023, 20.03.2023 24.03.2023, 25.03.2023
5	Sense of responsibility	APRIL	4	Dt. 27.03.2023, 31.03.2023 03.04.2023, 10.04.2023
6	Self expression/ communication/ Presentation skills		4	Dt. 15.04.2023, 17.04.2023 21.04.2023, 22.04.2023
7	Interpersonal skills/human relations		4	Dt. 24.04.2023, 28.04.2023 29.04.2023, 01.05.2023
8	Report writing skills	MAY	3	Dt. 06.05.2023, 08.05.2023 12.05.2023
9	Viva voce		4	Dt. 13.05.2023, 15.05.2023 20.05.2023, 22.05.2023
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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MECHANICAL ENGG.

SEMESTER: 6TH

SECTION : MB1

NAME OF THE FACULTY : (1) ER. HIMANSU SEKHAR SAMAL (LECT. IN MECH. ENGG.)

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

PRACTICAL SUBJECT : LIFE SKILLS (PR-4)

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	Feb	02	Dt. 17.02.2023 , 24.02.2023
2	PROBLEM SOLVING	March	02	Dt. 03.03.2023 , 10.03.2023
3	PRESENTATION SKILL		02	Dt. 17.03.2023 , 24.03.2023
4	GROUP DISCUSSION & INTERVIEW TECHNIQUES		02	Dt. 31.03.2023 , 07.04.2023
5	WORKING IN TEAM	April	02	Dt. 21.04.2023 , 28.04.2023
6	TASK MANAGEMENT	May	02	Dt. 12.05.2023 , 19.05.2023
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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:- MECHANICAL ENGG.

SEMESTER: 6TH

SECTION :- MB1

NAME OF THE FACULTY : (1) ER. ABINASH SAHOO, (2) ER. KAMALAKANTA TRIPATHY (LECT. IN MECH. ENGG.)

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

PRACTICAL SUBJECT: STUDENT CENTRED ACTIVITIES

CLASS ALLOTTED /WEEK :- 03 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
01.	Library study and technical quiz	Feb	04	Dt. 21.02.2023, 28.02.2023 14.03.2023, 21.03.2023
02.	Seminar on different technical topics.	March	03	Dt. 28.03.2023, 04.04.2023 11.04.2023
03.	Seminar on different environmental issues.	April	03	Dt. 18.04.2023, 25.04.2023 02.05.2023
04.	Personality development class	may	03	Dt. 09.05.2023, 16.05.2023 23.05.2023

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W. Pr. Dhas

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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MECHANICAL ENGG.

SEMESTER: 6TH

SECTION: MB2

NAME OF THE FACULTY : (1) ER. TARANISEN MOHANTY (H.O.D., MECH. ENGG.), (2) ER. GOURI SANKAR PRADHAN (LECT. IN MECH. ENGG.)

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

PRACTICAL SUBJECT: AUTOMOBILE ENGINEERING LAB (PR-1)

CLASS ALLOTTED /WEEK:- 04 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	Study of Automobile chassis.	FEB	02	Dt. 15.02.2023 22.02.2023
2	Study the differential mechanism of the Tractor.	MARCH	02	Dt. 01.03.2023 15.03.2023
3	Study the hydraulic braking system of automobile.		02	Dt. 22.03.2023 29.03.2023
4	Study Study the cut section model of carburetor solex type and maruti car type.	APRIL	02	Dt. 05.04.2023 12.04.2023
5	Study the fuel pump cut section model.		02	Dt. 19.04.2023 26.04.2023
6	Operating double acting pneumatic cylinder with quick exhaust valve	MAY	02	Dt. 03.05.2023 10.05.2023
7	Study of actual car engine.		01	Dt. 17.05.2023

A. Pradhan

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T. Mohanty

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T. Mohanty

G. S. Pradhan

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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MECHANICAL ENGG.

SEMESTER: 6TH

SECTION : MB2

NAME OF THE FACULTY : (1) ER. DEWAN KUMAR SAHU, (2) ER. SAMIR PRASAD SAHU (LECT. IN MECH. ENGG.)

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

PRACTICAL SUBJECT: POWER STATION ENGINEERING LAB (PR-2)

CLASS ALLOTTED /WEEK:- 04 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	To study the modern steam power plant with model.	FEB	01	Dt. 16. 02. 2023
2	To determine the various efficiencies of steam turbine		01	Dt. 23. 02. 2023
3	To study the cooling tower	MARCH	02	Dt. 02. 03. 2023 09. 03. 2023
4	Study of jet condenser		01	Dt. 16. 03. 2023
5	Study of De-lavel turbine		02	Dt. 23. 03. 2023 21. 04. 2023
6	To study the spring loaded safety valve	APRIL	02	Dt. 13. 04. 2023 20. 04. 2023
7	To study the following steam generators (boilers)models.			
	a) Lancashire boiler		01	Dt. 27. 04. 2023
	b) Cornish boiler	MAY	01	Dt. 04. 05. 2023
	c) Babcock & Wilcox Boiler		01	Dt. 11. 05. 2023
	d) Vertical water tube boiler		01	Dt. 18. 05. 2023

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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MECHANICAL ENGG.

SEMESTER: 6TH

SECTION : MB2

NAME OF THE FACULTY : (1) ER. TARANISEN MOHANTY (H.O.D., MECH. ENGG.), (2) ER. SUBHASHMITA JENA, (3) ER. GOURI SANKAR PRADHAN, (4) ER. SUBRAJIT KUMAR NAIK (LECT. IN MECH. ENGG.)

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

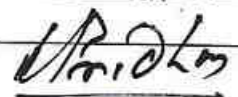
PRACTICAL SUBJECT: PROJECT PHASE - II (PR-3)

CLASS ALLOTTED /WEEK:- 10 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	FEB	4	Dt. 17.02.2023, 20.02.2023 24.02.2023, 25.02.2023
2	Planning and execution of considerations	MARCH	4	Dt. 27.02.2023, 03.03.2023 04.03.2023, 06.03.2023
3	Quality of performance		4	Dt. 10.03.2023, 11.03.2023 13.03.2023, 17.03.2023
4	Providing solution of the problems or production of final product		4	Dt. 18.03.2023, 20.03.2023 24.03.2023, 25.03.2023
5	Sense of responsibility	APRIL	4	Dt. 27.03.2023, 31.03.2023 03.04.2023, 10.04.2023
6	Self expression/ communication/ Presentation skills		4	Dt. 15.04.2023, 17.04.2023 21.04.2023, 22.04.2023
7	Interpersonal skills/human relations		4	Dt. 24.04.2023, 28.04.2023 29.04.2023, 01.05.2023
8	Report writing skills	MAY	3	Dt. 06.05.2023, 08.05.2023 12.05.2023
9	Viva voce		4	Dt. 13.05.2023, 15.05.2023 20.05.2023, 22.05.2023
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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MECHANICAL ENGG.

SEMESTER: 6TH

SECTION : MB2

NAME OF THE FACULTY : (1) ER. HIMANSU SEKHAR SAMAL (LECT. IN MECH. ENGG.)

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

PRACTICAL SUBJECT : LIFE SKILLS (PR-4)

CLASS ALLOTTED /WEEK:- 02 PERIODS

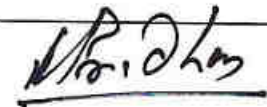
Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
1	SOCIAL SKILL	Feb	02	Dt. 17.02.2023 , 24.02.2023
2	PROBLEM SOLVING	March	02	Dt. 03.03.2023 , 10.03.2023
3	PRESENTATION SKILL		02	Dt. 17.03.2023 , 24.03.2023
4	GROUP DISCUSSION & INTERVIEW TECHNIQUES		02	Dt. 31.03.2023 , 07.04.2023
5	WORKING IN TEAM	April	02	Dt. 24.04.2023 , 28.04.2023
6	TASK MANAGEMENT	May	02	Dt. 12.05.2023 , 19.05.2023
7				
8				
9				



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Engineering & Technology

CHHENDIPADA, ANGUL

PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:- MECHANICAL ENGG.

SEMESTER: 6TH

SECTION :- MB2

NAME OF THE FACULTY : (1) ER. ABINASH SAHOO, (2) ER. KAMALAKANTA TRIPATHY (LECT. IN MECH. ENGG.)

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

PRACTICAL SUBJECT: STUDENT CENTRED ACTIVITIES

CLASS ALLOTTED /WEEK :- 03 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
01.	Library study & technical quiz	Feb	04	Dt 21.02.2023 , 28.02.2023 14.03.2023 , 21.03.2023
02.	Seminar on different technical topics	March	03	Dt. 28.03.2023 , 04.04.2023 11.04.2023
03.	Seminar on different environmental issues.	April	03	Dt. 18.04.2023 , 25.04.2023 02.05.2023
04.	Personality development classes	may	03	Dt. 09.05.2023 , 16.05.2023 23.05.2023

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K. Tripathy

Pr. D. K.

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