

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

BRANCH:-MECHANICAL ENGINEERING  
SECTION: MA

SEMESTER: 4TH

NAME OF THE FACULTY : (1) ER. TARANISEN MOHANTY (H.O.D.,  
MECH. ENGG.), (2) ER. HIMANSU SEKHAR SAMAL (LECT. IN  
MECH. ENGG.)

SEMESTER FROM : 13.02.2023 to 23.05.2023

THEORY SUBJECT: THEORY OF MACHINES (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	Simple Mechanism	8	FEBRUARY	
	1.1 Link ,kinematic chain, mechanism, machine	2		14.02.23 , 16.02.23
	1.2 Inversion, four bar link mechanism and its inversion	2		Dt . 20.02.23 , 21.02.23
	1.3 Lower pair and higher pair	2		Dt . 23.02.23 , 25.02.23
	1.4 Cam and followers	2		27.02.23 , 28.02.23
2	Friction	12	MARCH	
	2.1 Friction between nut and screw for square thread, screw jack	2		Dt - 02.03.23 , 04.03.23
	2.2 Bearing and its classification, Description of roller, needle roller& ball bearings.	2		Dt - 06.03.23 , 09.03.23
	2.3 Torque transmission in flat pivot& conical pivot bearings.	2		Dt - 11.03.23 , 13.03.23
	2.4 Flat collar bearing of single and multiple types.	2		Dt - 14.03.23 , 16.03.23
	2.5 Torque transmission for single and multiple clutches	2		Dt - 18.03.23 , 20.03.23
	2.6 Working of simple frictional brakes.	2		Dt - 21.03.23 , 23.03.23

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
3	<b>Power Transmission</b>	12		
	3.1 Concept of power transmission	1		25.03.23
	3.2 Type of drives, belt, gear and chain drive.	1		Dt - 27.03.23
	3.3 Computation of velocity ratio, length of belts (open and cross) with and without slip.	2	APRIL	Dt. 28.03.23, 03.04.23
	3.4 Ratio of belt tensions, centrifugal tension and initial tension.	1		Dt - 04.04.23
	3.5 Power transmitted by the belt.	1		Dt - 06.04.23
	3.6 Determine belt thickness and width for given permissible stress for open and crossed belt considering centrifugal tension.	2		Dt - 08.04.23, 10.04.23
	3.7 V-belts and V-belts pulleys.	1		Dt - 11.04.23
	3.8 Concept of crowning of pulleys.	1		Dt - 13.04.23
	3.9 Gear drives and its terminology.	1		Dt - 15.04.23
3.10 Gear trains, working principle of simple, compound, reverted and epicyclic gear trains.	1		Dt - 17.04.23	
4	<b>Governors and Flywheel</b>	8		
	4.1 Function of governor	1		Dt - 18.04.23
	4.2 Classification of governor	1		Dt - 20.04.23
	4.3 Working of Watt, Porter, Proel and Hartnell governors.	2		Dt - 22.04.23, 24.04.23
	4.4 Conceptual explanation of sensitivity, stability and isochronisms.	1		Dt - 25.04.23
	4.5 Function of flywheel.	1		Dt - 27.04.23
	4.6 Comparison between flywheel & governor.	1		Dt - 29.04.23
4.7 Fluctuation of energy and coefficient of fluctuation of speed.	1	MAY	Dt - 01.05.23	


Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
5	Balancing of Machine	8		
	5.1 Concept of static and dynamic balancing.	1		Dt-02.05.23
	5.2 Static balancing of rotating parts.	1		Dt-04.05.23
	5.3 Principles of balancing of reciprocating parts.	2		Dt-06.05.23, 08.05.23
	5.4 Causes and effect of unbalance.	2		Dt-09.05.23, 11.05.23
	5.5 Difference between static and dynamic balancing	2		Dt-13.05.23, 15.05.23
6	Vibration of Machine Parts	8		
	6.1 Introduction to Vibration and related terms (Amplitude, time period and frequency, cycle)	2		Dt-16.05.23
	6.2 Classification of vibration.	1		Dt-18.05.23
	6.3 Basic concept of natural, forced & damped vibration	2		Dt-20.05.23
	6.4 Torsional and Longitudinal vibration.	2		Dt-22.05.23
	6.5 Causes & remedies of vibration.	1		Dt-23.05.23



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**THEORY LESSON PLAN FOR THE SESSION 2022 - 23**

BRANCH:-MECHANICAL ENGINEERING  
 SECTION:- MA

SEMESTER: 4TH

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

SEMESTER FROM : 13.02.2023 to 23.05.2023

THEORY SUBJECT: MANUFACTURING TECHNOLOGY (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	Tool Materials	4	FEBRUARY	
	Composition of various tool materials	2		Dt. 14.02.23, 16.02.23
	Physical properties & uses of such tool materials	2		Dt. 17.02.23, 20.02.23
2	Cutting Tools	6		
	Cutting action of various and tools such as Chisel, hacksaw blade, dies and reamer	2		Dt. 21.02.23, 23.02.23
	Turning tool geometry and purpose of tool angle	2		Dt. 24.02.23, 27.02.23
	Machining process parameters (Speed, feed and depth of cut)	1		Dt. 28.02.23
	Coolants and lubricants in machining and purpose	1	MARCH	Dt. 02.03.23
3	Lathe Machine	8		
	Construction and working of lathe and CNC lathe: Major components of a lathe and their function, Operations carried out in a lathe (Turning, thread cutting, taper turning, internal machining, parting off, facing, knurling), Safety measures during machining	3		Dt. 03.03.23, 06.03.23
	Capstan lathe: Difference with respect to engine lathe, Major components and their function, Define multiple tool holders	2		Dt. 09.03.23, 10.03.23
	Turret Lathe: Difference with respect to capstan lathe, Major components and their function	1		Dt. 13.03.23
	Draw the tooling layout for preparation of a hexagonal bolt & bush	2		Dt. 14.03.23, 16.03.23

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
4	<b>Shaper</b>	6		
	Potential application areas of a shaper machine	1		Dt. 17.03.23
	Major components and their function	1		Dt. 20.03.23
	Explain the automatic table feed mechanism	1		Dt. 21.03.23
	Explain the construction & working of tool head	1		Dt. 23.03.23
	Explain the quick return mechanism through sketch	1		Dt. 24.03.23
	State the specification of a shaping machine.	1		Dt. 27.03.23
5	<b>Planing Machine</b>	6		
	Application area of a planer and its difference with respect to shaper	1		Dt. 28.03.23
	Major components and their functions	1		Dt. 31.03.23
	The table drive mechanism	2	APRIL	Dt. 03.04.23
	Working of tool and tool support	1		Dt. 04.04.23
	Clamping of work through sketch	1		Dt. 06.04.23
6	<b>Milling Machine</b>	8		
	Types of milling machine and operations performed by them and also same for CNC milling machine	1		Dt. 10.04.23
	Explain work holding attachment	2		Dt. 11.04.23, 13.04.23
	Construction & working of simple dividing head, universal dividing head	2		Dt. 17.04.23, 18.04.23
	Procedure of simple and compound indexing	2		Dt. 20.04.23, 21.04.23
Illustration of different indexing methods	1		Dt. 24.04.23	



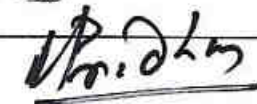
Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
7	Slotter	6		
	Major components and their function	2		Dt. 25.04.23, 27.04.23
	Construction and working of slotter machine	2	MAY	Dt. 28.04.23, 01.05.23
	Tools used in slotter	2		Dt. 02.05.23, 04.05.23
8	Grinding	6		
	Significance of grinding operations	1		Dt. 05.05.23
	Manufacturing of grinding wheels	1		Dt. 08.05.23
	Criteria for selecting of grinding wheels	2		Dt. 09.05.23
	Specification of grinding wheels with example Working of: Cylindrical Grinder, Surface Grinder, Centreless Grinder	2		Dt. 11.05.23, 12.05.23
9	Internal Machining operations	6		
	Classification of drilling machines: Working of a) Bench drilling machine b) Pillar drilling machine c) Radial drilling machine	2		Dt. 15.05.23
	Boring Basic: Principle of Boring, Different between Boring and drilling	2		Dt. 16.05.23
	Broaching: Types of Broaching (pull type, push type) Advantages of Broaching and applications	2		Dt. 18.05.23
10	Surface Finish, Lapping	4		Dt. 0
	Definition of Surface finish	2		Dt. 22.05.23
	Description of lapping & explain their specific cutting	2		Dt. 23.05.23



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**THEORY LESSON PLAN FOR THE SESSION 2022 - 23**

BRANCH:-MECHANICAL ENGINEERING  
SECTION: MA

SEMESTER: 4TH

NAME OF THE FACULTY : (1) ER. KAMALAKANTA TRIPATHY,  
(2) ER. BIKASH RANJAN SAHU (LECT. IN MECH. ENGG.)

SEMESTER FROM : 13.02.2023 to 23.05.2023

THEORY SUBJECT : FLUID MECHANICS (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	Properties of Fluid	8		
	1.1 Define fluid	3	FEB	Dt. 14.02.2023 , 16.02.2023
	1.2 Description of fluid properties like Density, Specific weight, specific gravity, specific volume and solve simple problems.	3		Dt. 17.02.2023 , 20.02.2023
	1.3 Definitions and Units of Dynamic viscosity, kinematic viscosity, surface tension Capillary phenomenon	2		Dt. 21.02.2023 , 23.02.2023
2	Fluid Pressure and its Measurements	8		
	2.1 Definitions and units of fluid pressure, pressure intensity and pressure head.	1		Dt. 24.02.2023
	2.2 Statement of Pascal's Law.	1		Dt. 27.02.2023
	2.3 Concept of atmospheric pressure, gauge pressure, vacuum pressure and absolute pressure	2		Dt. 28.02.2023
	2.4 Pressure measuring instruments	1	March	Dt. 02.03.2023
	Manometers (Simple and Differential)			
	2.4.1 Bourdon tube pressure gauge(Simple Numerical)	2		Dt. 03.03.2023, 06.03.2023
2.5 Solve simple problems on Manometer.	1		Dt. 09.03.2023	



Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
3	Hydrostatics	8		
	3.1 Definition of hydrostatic pressure	1		Dt. 10.03.2023
	3.2 Total pressure and centre of pressure on immersed bodies(Horizontal and Vertical Bodies)	2		Dt. 13.03.2023, 14.03.2023
	3.3 Solve Simple problems.	2		Dt. 16.03.2023, 17.03.2023
	3.4 Archimedes 'principle, concept of buoyancy, meta center and meta centric height (Definition only)	2		Dt. 20.03.2023, 21.03.2023
	3.5 Concept of floatation	1		Dt. 23.03.2023
4	Kinematics of Flow	8		
	4.1 Types of fluid flow	2		Dt. 24.03.2023, Dt. 27.03.2023
	4.2 Continuity equation(Statement and proof for one dimensional flow)	2		Dt. 28.03.2023, 31.03.2023
	4.3 Bernoulli's theorem(Statement and proof)	2	April	Dt. 03.04.2023
	Applications and limitations of Bernoulli's theorem (Venturimeter, pitot tube)			
	4.4 Solve simple problems	2		Dt. 04.04.2023
5	Orifices, Notches & Weirs	8		
	5.1 Define orifice	1		Dt. 06.04.2023
	5.2 Flow through orifice	1		Dt. 10.04.2023
	5.3 Orifices coefficient & the relation between the orifice coefficients	2		Dt. 11.04.2023, 13.04.2023
	5.4 Classifications of notches & weirs	1		Dt. 17.04.2023
	5.5 Discharge over a rectangular notch or weir	1		Dt. 18.04.2023
	5.6 Discharge over a triangular notch or weir	1		Dt. 20.04.2023
	5.7 Simple problems on above	1		Dt. 21.04.2023



Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
6	Flow Through Pipe	10		
	6.1 Definition of pipe.	1		Dt. 24.04.2023
	6.2 Loss of energy in pipes.	2		Dt. 25.04.2023
	6.3 Head loss due to friction: Darcy's and Chezy's formula (Expression only)	2		Dt. 27.04.2023
	6.4 Solve Problems using Darcy's and Chezy's formula.	3		Dt. 28.04.2023, 01.05.2023
	6.5 Hydraulic gradient and total gradient line	2	May	Dt. 02.05.2023, 04.05.2023
7	7.0 Impact of Jets	10		
	7.1 Impact of jet on fixed and moving vertical flat plates	4		Dt. 05.05.2023, 08.05.2023, 09.05.2023, 11.05.2023
	7.2 Derivation of work done on series of vanes and condition for maximum efficiency.	3		Dt. 12.05.2023, 15.05.2023, 16.05.2023
	7.3 Impact of jet on moving curved vanes, illustration using velocity triangles, derivation of work done, efficiency.	3		Dt. 18.05.2023, 22.05.2023, 23.05.2023.

*K. Toipakhy.*

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**THEORY LESSON PLAN FOR THE SESSION 2022 - 23**

BRANCH:-MECHANICAL ENGINEERING  
 SECTION:- MA

SEMESTER: 4TH

NAME OF THE FACULTY : (1) ER. SATYANARAYAN MAJHI,  
 (2) ER. SAMIR PRASAD SAHU, (3) ER. MANAS RANJAN  
 BEHERA (LECT. IN MECH. ENGG.)

SEMESTER FROM : 13.02.2023 to 23.05.2023

THEORY SUBJECT: THERMAL ENGINEERING - II (TH-4)

CLASS ALLOTTED /WEEK : 04 PERIODS

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
1	Performance of I.C Engine	8	FEBRUARY	
	1.1 Define mechanical efficiency, Indicated thermal efficiency, Relative Efficiency, brake thermal efficiency overall efficiency, Mean effective pressure & specific fuel consumption.	3		Dt. 14.02.23, 16.02.23, 17.02.23
	1.2 Define air-fuel ratio & calorific value of fuel.	2		Dt. 20.02.23, 21.02.23
	1.3 Work out problems to determine efficiencies & specific fuel consumption.	3		Dt. 23.02.23, 24.02.23, 27.02.23
2	Air Compressor	12		
	2.1 Explain functions of compressor & industrial use of compressor air	2	MARCH	Dt. 28.02.23, 01.03.23
	2.2 Classify air compressor & principle of operation.	2		Dt. 02.03.23, 06.03.23
	2.3 Describe the parts and working principle of reciprocating Air compressor.	2		Dt. 09.03.23, 13.03.23
	2.4 Explain the terminology of reciprocating compressor such as bore, stroke, pressure ratio free air delivered & Volumetric efficiency.	2		Dt. 14.03.23, 15.03.23
	2.5 Derive the work done of single stage & two stage compressor with and without clearance.	2		Dt. 16.03.23, 20.03.23
	2.6 Solve simple problems (without clearance only)	2		Dt. 21.03.23, 22.03.23
3	Properties of Steam	12		
	3.1 Difference between gas & vapours.	1		Dt. 23.03.23
	3.2 Formation of steam.	2		Dt. 27.03.23




Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	3.3 Representation on P-V, T-S, H-S, & T-H diagram.	2		Dt. 28.03.23, 29.03.23
	3.4 Definition & Properties of Steam.	1	APRIL	Dt. 03.04.23
	3.5 Use of steam table & mollier chart for finding unknown properties.	3		Dt. 04.04.23, 05.04.23
	3.6 Non flow & flow process of vapour.	1		Dt. 06.04.23
	3.7 P-V, T-S & H-S, diagram.	1		Dt. 10.04.23
	3.8 Determine the changes in properties & solve simple numerical.	1		Dt. 11.04.23
	<b>Steam Generator</b>	<b>12</b>		
	4.1 Classification & types of Boiler.	2		Dt. 12.04.23, 13.04.23
	4.2 Important terms for Boiler.	2		Dt. 17.04.23, 18.04.23
4	4.3 Comparison between fire tube & Water tube Boiler.	2		Dt. 19.04.23, 20.04.23
	4.4 Description & working of common boilers (Cochran, Lancashire, Babcock & Wilcox Boiler)	2		Dt. 24.04.23, 25.04.23
	4.5 Boiler Draught (Forced, induced & balanced)	2		Dt. 26.04.23
	4.6 Boiler mountings & accessories.	2		Dt. 27.04.23
	<b>Steam Power Cycles</b>	<b>8</b>	MAY	
5	5.1 Carnot cycle with vapour.	1		Dt. 01.05.23
	5.2 Derive work & efficiency of the cycle.	1		Dt. 02.05.23
	5.3 Rankine cycle.	1		Dt. 04.05.23
	5.3.1 Representation in P-V, T-S & h-s diagram.	1		Dt. 05.05.23
	5.3.2 Derive Work & Efficiency.	1		Dt. 08.05.23

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	5.3.3 Effect of Various end conditions in Rankine cycle.	1		Dt. 09.05.23
	5.3.4 Reheat cycle & regenerative Cycle.	1		Dt. 11.05.23
	5.4 Solve simple numerical on Carnot vapour Cycle & Rankine Cycle.	1		Dt. 12.05.23
6	Heat Transfer	8		
	6.1 Modes of Heat Transfer (Conduction, Convection, Radiation).	2		Dt. 15.05.23, 16.05.23
	6.2 Fourier law of heat conduction and thermal conductivity (k).	2		Dt. 18.05.23, 22.05.23
	6.3 Newton's laws of cooling.	1		Dt. 23.05.23
	6.4 Radiation heat transfer (Stefan, Boltzmann & Kirchhoff's law) only statement, no derivation & no numerical problem.	1		
	6.5 Black body Radiation, Definition of Emissivity, absorptivity, & transmissibility.	2		

  
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BRANCH:-MECHANICAL ENGINEERING  
 SECTION: MB

SEMESTER: 4TH

NAME OF THE FACULTY : (1) ER. TARANISEN MOHANTY (H.O.D.,  
 MECH. ENGG.), (2) ER. HIMANSU SEKHAR SAMAL (LECT. IN  
 MECH. ENGG.)

SEMESTER FROM : 13.02.2023 to 23.05.2023

THEORY SUBJECT: THEORY OF MACHINES (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	Simple Mechanism	8		
	1.1 Link ,kinematic chain, mechanism, machine	2	February	Dt- 14.02.2023 ,
	1.2 Inversion, four bar link mechanism and its inversion	2		Dt- 15.02.2023
	1.3 Lower pair and higher pair	2		Dt- 16.02.2023
	1.4 Cam and followers	2		Dt- 21.02.2023
2	Friction	12		
	2.1 Friction between nut and screw for square thread, screw jack	2		Dt- 22.02.2023 , 23.02.2023
	2.2 Bearing and its classification, Description of roller, needle roller& ball bearings.	2		Dt- 27.02.2023 , 28.02.2023
	2.3 Torque transmission in flat pivot& conical pivot bearings.	2	March	Dt-01.03.2023 , 02.03.2023
	2.4 Flat collar bearing of single and multiple types.	2		Dt- 06.03.2023 , 09.03.2023
	2.5 Torque transmission for single and multiple clutches	2		Dt- 13.03.2023 , 14.03.2023
	2.6 Working of simple frictional brakes.	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
	<b>Power Transmission</b>	12		
3	3.1 Concept of power transmission	1	March	Dt. 20.03.2023
	3.2 Type of drives, belt, gear and chain drive.	1		Dt. 21.03.2023
	3.3 Computation of velocity ratio, length of belts (open and cross) with and without slip.	2		Dt. 22.03.2023 , 23.03.2023
	3.4 Ratio of belt tensions, centrifugal tension and initial tension.	1		Dt. 27.03.2023
	3.5 Power transmitted by the belt.	1		Dt. 28.03.2023
	3.6 Determine belt thickness and width for given permissible stress for open and crossed belt considering centrifugal tension.	2		Dt. 29.03.2023 , 03.04.2023
	3.7 V-belts and V-belts pulleys.	1	April	Dt. 09.04.2023
	3.8 Concept of crowning of pulleys.	1		Dt. 05.04.2023
	3.9 Gear drives and its terminology.	1		Dt. 06.04.2023
	3.10 Gear trains, working principle of simple, compound, reverted and epicyclic gear trains.	1		Dt. 10.04.2023
	<b>Governors and Flywheel</b>	8		
4	4.1 Function of governor	1		Dt. 11.04.2023
	4.2 Classification of governor	1		Dt. 12.04.2023
	4.3 Working of Watt, Porter, Proel and Hartnell governors.	2		Dt. 13.04.2023 , 17.04.2023
	4.4 Conceptual explanation of sensitivity, stability and isochronisms.	1		Dt. 18.04.2023
	4.5 Function of flywheel.	1		Dt. 19.04.2023
	4.6 Comparison between flywheel & governor.	1		Dt. 20.04.2023
	4.7 Fluctuation of energy and coefficient of fluctuation of speed.	1		Dt. 24.04.2023



Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
5	Balancing of Machine	8		
	5.1 Concept of static and dynamic balancing.	1	April	Dt. 25.04.2023 , 26.04.2023
	5.2 Static balancing of rotating parts.	1		Dt. 27.04.2023
	5.3 Principles of balancing of reciprocating parts.	2	May	Dt. 01.05.2023 , 02.05.2023
	5.4 Causes and effect of unbalance.	2		Dt. 03.05.2023 , 04.05.2023
	5.5 Difference between static and dynamic balancing	2		Dt. 08.05.2023 , 09.05.2023
6	Vibration of Machine Parts	8		
	6.1 Introduction to Vibration and related terms (Amplitude, time period and frequency, cycle)	2		Dt. 10.05.2023 , 11.05.2023
	6.2 Classification of vibration.	1		Dt. 15.05.2023
	6.3 Basic concept of natural, forced & damped vibration	2		Dt. 16.05.2023
	6.4 Torsional and Longitudinal vibration.	2		Dt. 17.05.2023 , 18.05.2023
	6.5 Causes & remedies of vibration.	1		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: 4TH

NAME OF THE FACULTY : (1) ER. SUBHASHMITA JENA, (2) ER. LAKIN KUMAR SAHOO, (3) ER. KEDARA KUMAR PRADHAN (LECT. IN MECH. ENGG.)

SEMESTER FROM : 13.02.2023 to 23.05.2023

THEORY SUBJECT: MANUFACTURING TECHNOLOGY (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	Tool Materials	4		
	Composition of various tool materials	2	February	Dt. 14.02.2023 , 15.02.2023
	Physical properties & uses of such tool materials	2		Dt. 15.02.2023
2	Cutting Tools	6		
	Cutting action of various and tools such as Chisel, hacksaw blade, dies and reamer	2		Dt. 17.02.2023
	Turning tool geometry and purpose of tool angle	2		Dt. 20.02.2023
	Machining process parameters (Speed, feed and depth of cut)	1		Dt. 21.02.2023
	Coolants and lubricants in machining and purpose	1		Dt. 22.02.2023
3	Lathe Machine	8		
	Construction and working of lathe and CNC lathe: Major components of a lathe and their function, Operations carried out in a lathe (Turning, thread cutting, taper turning, internal machining, parting off, facing, knurling), Safety measures during machining	3		Dt. 24.02.2023 , 27.02.2023
	Capstan lathe: Difference with respect to engine lathe, Major components and their function, Define multiple tool holders	2		Dt. 28.02.2023 , 01.03.2023
	Turret Lathe: Difference with respect to capstan lathe, Major components and their function	1	March	Dt. 03.03.2023
	Draw the tooling layout for preparation of a hexagonal bolt & bush	2		Dt. 06.03.2023



Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
4	Shaper	6		
	Potential application areas of a shaper machine	1	March	Dt. 10.03.2023
	Major components and their function	1		Dt. 13.03.2023
	Explain the automatic able feed mechanism	1		Dt. 14.03.2023
	Explain the construction & working of tool head	1		Dt. 15.03.2023
	Explain the quick return mechanism through sketch	1		Dt. 17.03.2023
	State the specification of a shaping machine.	1		Dt. 20.03.2023
5	Planning Machine	6		
	Application area of a planer and its difference with respect to shaper	1		Dt. 21.03.2023
	Major components and their functions	1		Dt. 22.03.2023
	The table drive mechanism	2		Dt. 24.03.2023 , 27.03.2023
	Working of tool and tool support	1		Dt. 28.03.2023
	Clamping of work through sketch	1		Dt. 29.03.2023 ,
6	Milling Machine	8		
	Types of milling machine and operations performed by them and also same for CNC milling machine	1		Dt. 31.03.2023
	Explain work holding attachment	2	April	Dt. 03.04.2023
	Construction & working of simple dividing head, universal dividing head	2		Dt. 04.04.2023 , 05.04.2023
	Procedure of simple and compound indexing	2		Dt. 10.04.2023 , 11.04.2023
Illustration of different indexing methods	1		Dt. 12.04.2023	

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
7	Slotter	6		
	Major components and their function	2	April	Dt. 17.04.2023 , 18.04.2023
	Construction and working of slotter machine	2		Dt. 19.04.2023 , 21.04.2023
	Tools used in slotter	2		Dt. 24.04.2023 , 25.04.2023
Grinding	6			
8	Significance of grinding operations	1		Dt. 26.04.2023
	Manufacturing of grinding wheels	1		Dt. 28.04.2023
	Criteria for selecting of grinding wheels	2	May	Dt. 01.05.2023 ,
	Specification of grinding wheels with example Working of: Cylindrical Grinder, Surface Grinder, Centreless Grinder	2		Dt. 02.05.2023 , 03.05.2023
9	Internal Machining operations	6		
	Classification of drilling machines: Working of a) Bench drilling machine b) Pillar drilling machine c) Radial drilling machine	2		Dt. 05.05.2023 , 08.05.2023
	Boring Basic: Principle of Boring, Different between Boring and drilling	2		Dt. 09.05.2023 , 10.05.2023
	Broaching: Types of Broaching (pull type, push type) Advantages of Broaching and applications	2		Dt. 12.05.2023 , 15.05.2023
10	Surface Finish, Lapping	4		
	Definition of Surface finish	2		Dt. 16.05.2023 , 17.05.2023
	Description of lapping & explain their specific cutting	2		Dt. 22.05.23 , 23.05.2023

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**THEORY LESSON PLAN FOR THE SESSION 2022 - 23**

BRANCH:-MECHANICAL ENGINEERING  
SECTION: MB

SEMESTER: 4TH

NAME OF THE FACULTY : (1) ER. KAMALAKANTA TRIPATHY,  
(2) ER. BIKASH RANJAN SAHU (LECT. IN MECH. ENGG.)

SEMESTER FROM : 13.02.2023 to 23.05.2023

THEORY SUBJECT : FLUID MECHANICS (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
	Properties of Fluid	8		
1	1.1 Define fluid	3	February	Dt. 14.02.2023 , 15.02.2023
	1.2 Description of fluid properties like Density, Specific weight, specific gravity, specific volume and solve simple problems.	3		Dt. 20.02.2023 , 21.02.2023
	1.3 Definitions and Units of Dynamic viscosity, kinematic viscosity, surface tension Capillary phenomenon	2		Dt. 22.02.2023 , 25.02.2023
	Fluid Pressure and its Measurements	8		
2	2.1 Definitions and units of fluid pressure, pressure intensity and pressure head.	1		Dt. 27.02.2023
	2.2 Statement of Pascal's Law.	1		Dt. 28.02.2023
	2.3 Concept of atmospheric pressure, gauge pressure, vacuum pressure and absolute pressure	2	March	Dt. 01.03.2023
	2.4 Pressure measuring instruments	1		Dt. 04.03.2023
	Manometers (Simple and Differential)			
	2.4.1 Bourdon tube pressure gauge(Simple Numerical)	2		Dt. 06.03.2023 , 10.03.2023
	2.5 Solve simple problems on Manometer.	1		Dt. 11.03.2023

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
3	Hydrostatics	8		
	3.1 Definition of hydrostatic pressure	1	March	Dt. 13.03.2023
	3.2 Total pressure and centre of pressure on immersed bodies(Horizontal and Vertical Bodies)	2		Dt. 14.03.2023 , 15.03.2023
	3.3 Solve Simple problems.	2		Dt. 18.03.2023 , 20.03.2023
	3.4 Archimedes 'principle, concept of buoyancy, meta center and meta centric height (Definition only)	2		Dt. 22.03.2023 , 25.03.2023
	3.5 Concept of floatation	1		Dt. 27.03.2023
4	Kinematics of Flow	8		
	4.1 Types of fluid flow	2		Dt. 28.03.2023 , 29.03.2023
	4.2 Continuity equation(Statement and proof for one dimensional flow)	2	April	Dt. 03.04.2023 , 04.04.2023
	4.3 Bernoulli's theorem(Statement and proof)	2		Dt. 05.04.2023 , 08.04.2023
	Applications and limitations of Bernoulli's theorem (Venturimeter, pitot tube)			
	4.4 Solve simple problems	2		Dt. 10.04.2023 , 11.04.2023
5	Orifices, Notches & Weirs	8		
	5.1 Define orifice	1		Dt. 12.04.2023
	5.2 Flow through orifice	1		Dt. 15.04.2023
	5.3 Orifices coefficient & the relation between the orifice coefficients	2		Dt. 17.04.2023 , 18.04.2023
	5.4 Classifications of notches & weirs	1		Dt. 19.04.2023 ,
	5.5 Discharge over a rectangular notch or weir	1		Dt. 22.04.2023
	5.6 Discharge over a triangular notch or weir	1		Dt. 24.04.2023
	5.7 Simple problems on above	1		Dt. 25.04.2023



Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
6	Flow Through Pipe	10		
	6.1 Definition of pipe.	1		Dt. 26.04.2023
	6.2 Loss of energy in pipes.	2		Dt. 29.04.2023
	6.3 Head loss due to friction: Darcy's and Chezy's formula (Expression only)	2	May	Dt. 01.05.2023
	6.4 Solve Problems using Darcy's and Chezy's formula.	3		Dt. 02.05.2023, 03.05.2023 06.05.2023
	6.5 Hydraulic gradient and total gradient line	2		Dt. 08.05.2023, 09.05.2023
7	7.0 Impact of Jets	10		
	7.1 Impact of jet on fixed and moving vertical flat plates	4		Dt. 10.05.2023, 13.05.2023, 15.05.23
	7.2 Derivation of work done on series of vanes and condition for maximum efficiency.	3		Dt. 16.05.2023, 17.05.2023, 20.05.2023
	7.3 Impact of jet on moving curved vanes, illustration using velocity triangles, derivation of work done, efficiency.	3		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: 4TH

NAME OF THE FACULTY : (1) ER. SATYANARAYAN MAJHI,  
 (2) ER. SAMIR PRASAD SAHU, (3) ER. MANAS RANJAN  
 BEHERA (LECT. IN MECH. ENGG.)

SEMESTER FROM : 13.02.2023 to 23.05.2023

THEORY SUBJECT: THERMAL ENGINEERING - II (TH-4)

CLASS ALLOTTED /WEEK : 04 PERIODS

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	<b>Performance of I.C Engine</b>	8		
1	1.1 Define mechanical efficiency, Indicated thermal efficiency, Relative Efficiency, brake thermal efficiency overall efficiency, Mean effective pressure & specific fuel consumption.	3	February	Dt. 14.02.2023 , 15.02.2023
	1.2 Define air-fuel ratio & calorific value of fuel.	2		Dt. 16.02.2023 ,
	1.3 Work out problems to determine efficiencies & specific fuel consumption.	3		Dt. 20.02.2023 , 21.02.2023
	<b>Air Compressor</b>	12		
2	2.1 Explain functions of compressor & industrial use of compressor air	2		Dt. 22.02.2023 , 23.02.2023
	2.2 Classify air compressor & principle of operation.	2		Dt. 27.02.2023
	2.3 Describe the parts and working principle of reciprocating Air compressor.	2		Dt. 28.02.2023
	2.4 Explain the terminology of reciprocating compressor such as bore, stroke, pressure ratio free air delivered & Volumetric efficiency.	2	March	Dt. 06.03.2023 , 09.03.2023
	2.5 Derive the work done of single stage & two stage compressor with and without clearance.	2		Dt. 13.03.2023 , 14.03.2023
	2.6 Solve simple problems (without clearance only)	2		Dt. 15.03.2023 , 16.03.2023
3	<b>Properties of Steam</b>	12		
	3.1 Difference between gas & vapours.	1		Dt. 20.03.2023
	3.2 Formation of steam.	2		Dt. 21.03.2023 , 22.03.2023



Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	3.3 Representation on P-V, T-S, H-S, & T-H diagram.	2	March	Dt. 23.03.2023 , 27.03.2023
	3.4 Definition & Properties of Steam.	1		Dt. 28.03.2023 ,
	3.5 Use of steam table & mollier chart for finding unknown properties.	3		Dt. 29.03.2023 , 03.04.2023
	3.6 Non flow & flow process of vapour.	1	April	Dt. 04.04.2023
	3.7 P-V, T-S & H-S, diagram.	1		Dt. 05.04.2023
	3.8 Determine the changes in properties & solve simple numerical.	1		Dt. 06.04.2023
	<b>Steam Generator</b>	<b>12</b>		
4	4.1 Classification & types of Boiler.	2		Dt. 10.04.2023 , 11.04.2023
	4.2 Important terms for Boiler.	2		Dt. 12.04.2023 , 13.04.2023
	4.3 Comparison between fire tube & Water tube Boiler.	2		Dt. 17.04.2023 , 18.04.2023
	4.4 Description & working of common boilers (Cochran, Lancashire, Babcock & Wilcox Boiler)	2		Dt. 19.04.2023 , 20.04.2023
	4.5 Boiler Draught (Forced, induced & balanced)	2		Dt. 24.04.2023 , 25.04.2023
	4.6 Boiler mountings & accessories.	2		Dt. 26.04.2023 , 27.04.2023
	<b>Steam Power Cycles</b>	<b>8</b>		
5	5.1 Carnot cycle with vapour.	1	May	Dt. 01.05.2023
	5.2 Derive work & efficiency of the cycle.	1		Dt. 02.05.2023
	5.3 Rankine cycle.	1		Dt. 03.05.2023
	5.3.1 Representation in P-V, T-S & h-s diagram.	1		Dt. 04.05.2023
	5.3.2 Derive Work & Efficiency.	1		Dt. 08.05.2023

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	5.3.3 Effect of Various end conditions in Rankine cycle.	1	May	Dt 09.05.2023
	5.3.4 Reheat cycle & regenerative Cycle.	1		Dt 10.05.2023
	5.4 Solve simple numerical on Carnot vapour Cycle & Rankine Cycle.	1		Dt 31.05.2023
	<b>Heat Transfer</b>	<b>8</b>		
6	6.1 Modes of Heat Transfer (Conduction, Convection, Radiation).	2		Dt 15.05.2023 , 16.05.2023
	6.2 Fourier law of heat conduction and thermal conductivity (k).	2		Dt 17.05.2023 , 18.05.2023
	6.3 Newton's laws of cooling.	1		Dt 18.05.2023
	6.4 Radiation heat transfer (Stefan, Boltzmann & Kirchhoff's law) only statement, no derivation & no numerical problem.	1		Dt 22.05.2023
	6.5 Black body Radiation, Definition of Emissivity, absorptivity, & transmissibility.	2		Dt 23.05.2023

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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MECHANICAL ENGG.

SEMESTER: 4TH

SECTION:- MA1

NAME OF THE FACULTY : (1) ER. TARANISEN MOHANTY (H.O.D., MECH. ENGG.), (2) ER. HIMANSU SEKHAR SAMAL (LECT. IN MECH. ENGG.), (3) ER. PRADEEP KUMAR SAHOO, (4) ER. BISHNU CHARANA BEHERA (T.A., MECH. ENGG.)

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023 PRACTICAL SUBJECT: THEORY OF MACHINES & MEASUREMENTS LAB (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	Determination of centrifugal force of a governor (Hart Nell / Watt/Porter).	Feb	02	Dt. 17.02.2023 , 20.02.2023
2	Study & demonstration of static balancing apparatus.		02	Dt. 24.02.2023 , 27.02.2023
3	Study & demonstration of journal bearing apparatus.	March	02	Dt. 06.03.2023 , 10.03.2023
4	Study of different types of Cam and followers		02	Dt. 13.03.2023 , 17.03.2023
5	Study & demonstration of epicyclic gear train		02	Dt. 20.03.2023 , 24.03.2023
6	Determination of the thickness of ground M.S flat to an accuracy of 0.02mm using Vernier Caliper.		02	Dt. 27.03.2023 , 31.03.2023
7	Determination of diameter of a cylindrical component to an accuracy of 0.01mm using micrometer.	April	03	Dt. 03.04.2023 , 10.04.2023 17.04.2023
8	Determine the heights of gauge blocks or parallel bars to accuracy of 0.02mm using Vernier height gauge.		03	Dt. 21.04.2023 , 24.04.2023 28.04.2023
9	Determine the thickness of ground MS plates using slip gauges	May	03	Dt. 01.05.2023 , 05.05.2023 08.05.2023
10	Determination of angel of Machined surfaces of components using sin bar with slip gauges		03	Dt. 12.05.2023 , 15.05.2023 22.05.2023

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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MECHANICAL ENGG.

SEMESTER: 4TH

SECTION:- MA1

NAME OF THE FACULTY : (1) ER. SUBHASHMITA JENA, (2) ER. LAKIN KUMAR SAHOO, (3) ER. HIMANSU SEKHAR SAMAL, (4) ER. MANAS RANJAN BEHERA (LECT. IN MECH. ENGG.), (5) ER. PRADEEP KUMAR SAHOO (T.A., MECH. ENGG.)

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

PRACTICAL SUBJECT: MECHANICAL ENGINEERING LAB-II (PR-2)

CLASS ALLOTTED /WEEK :- 06 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
1	Study of 2-S, 4-S petrol & diesel engine models	Feb	02	Dt. 14.02.2023 , 15.02.2023
2	Determine the brake thermal efficiency of single cylinder petrol engine.		03	Dt. 21.02.2023 , 22.02.2023 28.02.2023
3	Determine the brake thermal efficiency of single cylinder diesel engine.	March	03	Dt. 01.03.2023 , 14.03.2023 15.03.2023
4	Determine the B.H.P, I.H.P BSFC of a multi cylinder engine by Morse test		03	Dt. 21.03.2023 , 22.03.2023 28.03.2023
5	Determine the B.H.P, I.H.P BSFC of a multi cylinder engine by Morse test		02	Dt. 29.03.2023 , 04.04.2023
6	Study of pressure measuring devices (manometer, Bourdon tube pressure gauge)	April	02	Dt. 05.04.2023 , 11.04.2023
7	Verification of Bernoulli's theorem		03	Dt. 12.04.2023 , 18.04.2023 19.04.2023
8	Determination of Cd from venturimeter		03	Dt. 25.04.2023 , 26.04.2023 02.05.2023
9	Determination of Cc, Cv, Cd from orifice meter	May	03	Dt. 03.05.23, 09.05.23, 10.05.23
10	Determine of Darcy's coefficient from flow through pipe		03	Dt. 16.05.2023 , 17.05.2023 23.05.2023

Subhasmita Jena.

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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MECHANICAL ENGG.

SEMESTER: 4TH

SECTION:- MA1

NAME OF THE FACULTY : (1) ER. GOURI SANKAR PRADHAN, (2) ER. KAMALAKANTA TRIPATHY (LECT. IN MECH. ENGG),  
(3) MR. BHIMASEN ROUT (INSTRUCTOR)


SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

PRACTICAL SUBJECT: WORKSHOP PRACTICE-III (PR-3)

CLASS ALLOTTED /WEEK :- 06 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
(I)	MACHINING PRACTICES			
1	Job in evolving drilling, boring	Feb	04	Dt. 15.02.2023 , 22.02.2023 25.02.2023 , 01.03.2023
2	Internal/External threading on Turning jobs	March	04	Dt. 04.03.2023 , 10.03.2023 15.03.2023 , 18.03.2023
3	Job in evolving use of Capstan and turret lathe (Taper Turning & Chamfering)		04	Dt. 22.03.2023 , 25.03.2023 05.04.2023 , 08.04.2023
4	All gear lathe, CNC Lathe Trainer Practice Job involving all turning process on MS Rod & aluminum rod for jobs using CNC Lathe trainer.	April	04	Dt. 12.04.2023 , 15.04.2023 19.04.2023 , 22.04.2023
(II)	METAL MACHINING			D
5	Shaper- Preparation of V Block on CI or MS Blocks		04	Dt. 26.04.2023 , 29.04.2023 03.05.2023 , 06.05.2023
6	Milling Machine- Preparation of Spur gear on CI or MS round	May	04	Dt. 10.05.2023 , 13.05.2023 17.05.2023 , 20.05.2023

   
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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:- MECHANICAL ENGINEERING

SEMESTER: 4TH

SECTION:- MA1

NAME OF THE FACULTY:- (1) ER. KEDARA KUMAR PRADHAN, (2) ER. RASABIHARI SAHU (LECT. IN MECH. ENGG.)

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

PRACTICAL SUBJECT : TECHNICAL SEMINAR (PR-4)

CLASS ALLOTTED /WEEK:- 03 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
01.	Selection of topics.	Feb	02	Dt. 17.02.2023 , 24.02.2023
02.	Discussion about different topics.	March	01	Dt. 03.03.2023
03.	Report writing Skills		02	Dt. 10.03.2023 , 17.03.2023
04.	Power point presentation		03	Dt. 24.03.2023 , 31.03.2023 21.04.2023
05.	Seminar presentation & Final Report Submission	April - May	05	Dt. 28.04.2023 , 05.05.23 , 12.05.23 17.05.23 , 24.05.2023

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CHHENDIPADA, ANGUL



PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:- MECHANICAL ENGG.

SEMESTER: 4TH

SECTION :MA1

NAME OF THE FACULTY : (1) ER. LAKIN KUMAR SAHU (LECT. IN MECH. ENGG.), (2) ER. BISHNU CHARANA BEHERA (T.A., 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. 16.02.2023 23.02.2023 , 02.03.2023
02.	Seminar on different Technical topics	March	04	Dt. 09.03.2023 , 16.03.2023 23.03.2023 , 06.04.2023
03.	Seminar on different environmental issues	April	03	Dt. 13.04.2023 , 20.04.2023 27.04.2023
04.	Personality development class	May	03	Dt. 04.05.2023 , 11.05.2023 18.05.2023

LKS B. Behra  
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B. Mohanty  
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B. D. Das  
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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MECHANICAL ENGG.

SEMESTER: 4TH

SECTION:- MA2

NAME OF THE FACULTY : (1) ER. TARANISEN MOHANTY (H.O.D., MECH. ENGG.), (2) ER. HIMANSU SEKHAR SAMAL (LECT. IN MECH. ENGG.), (3) ER. PRADEEP KUMAR SAHOO, (4) ER. BISHNU CHARANA BEHERA (T.A., MECH. ENGG.)

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

PRACTICAL SUBJECT: THEORY OF MACHINES & MEASUREMENTS LAB (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	Determination of centrifugal force of a governor (Hart Nell / Watt/Porter).	Feb	03	Dt. 14.02.2023 , 15.02.2023 21.02.2023
2	Study & demonstration of static balancing apparatus.		02	Dt. 22.02.2023 , 28.02.2023
3	Study & demonstration of journal bearing apparatus.	March	02	Dt. 01.03.2023 , 14.03.2023
4	Study of different types of Cam and followers		02	Dt. 15.03.2023 , 21.03.2023
5	Study & demonstration of epicyclic gear train		03	Dt. 22.03.2023 , 28.03.2023, 29.03
6	Determination of the thickness of ground M.S flat to an accuracy of 0.02mm using Vernier Caliper.	April	03	Dt. 04.04.2023, 05.04.2023 11.04.2023
7	Determination of diameter of a cylindrical component to an accuracy of 0.01mm using micrometer.		03	Dt. 12.04.2023 , 18.04.2023 19.04.2023
8	Determine the heights of gauge blocks or parallel bars to accuracy of 0.02mm using Vernier height gauge.		03	Dt. 25.04.2023 , 26.04.2023 02.05.2023
9	Determine the thickness of ground MS plates using slip gauges	May	03	Dt. 03.05.2023 , 09.05.2023 10.05.2023
10	Determination of angel of Machined surfaces of components using sin bar with slip gauges		03	Dt. 16.05.2023 , 17.05.2023 23.05.2023

*Taranisen Mohanty*

*H. Samal*

*SK*

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*Taranisen Mohanty*

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*B. B. Behera*

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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MECHANICAL ENGG.

SEMESTER: 4TH

SECTION:- MA2

NAME OF THE FACULTY : (1) ER. SUBHASMITA JENA, (2) ER. LAKIN KUMAR SAHOO, (3) ER. HIMANSU SEKHAR SAMAL, (4) ER. MANAS RANJAN BEHERA (LECT. IN MECH. ENGG.), (5) ER. PRADEEP KUMAR SAHOO (T.A., MECH. ENGG.)

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

PRACTICAL SUBJECT: MECHANICAL ENGINEERING LAB-II (PR-2)

CLASS ALLOTTED /WEEK :- 06 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
1	Study of 2-S, 4-S petrol & diesel engine models	Feb	02	Dt. 16.02.2023 , 20.02.2023
2	Determine the brake thermal efficiency of single cylinder petrol engine.		03	Dt. 23.02.2023 , 27.02.2023 02.03.2023
3	Determine the brake thermal efficiency of single cylinder diesel engine.	March	03	Dt. 06.03.2023 , 09.03.2023 13.03.2023
4	Determine the B.H.P, I.H.P BSFC of a multi cylinder engine by Morse test		03	Dt. 16.03.2023 , 20.03.2023 23.03.2023
5	Determine the B.H.P, I.H.P BSFC of a multi cylinder engine by Morse test		02	Dt. 27.03.2023 , 03.04.2023
6	Study of pressure measuring devices (manometer, Bourdon tube pressure gauge	April	02	Dt. 06.04.2023 , 10.04.2023
7	Verification of Bernoulli's theorem		03	Dt. 13.04.2023 , 17.04.2023 20.04.2023
8	Determination of Cd from venturimeter		03	Dt. 24.04.2023, 27.04.2023 01.05.2023
9	Determination of Cc, Cv, Cd from orifice meter	May	03	Dt. 04.05.2023 , 08.05.2023 11.05.2023
10	Determine of Darcy's coefficient from flow through pipe		03	Dt. 15.05.2023 , 18.05.2023 22.05.2023

Subhasmita Jena. *Hsamal* *Sm* *LAS*  
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*#prabhaty*  
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*V.R. Samal*  
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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MECHANICAL ENGG.

SEMESTER: 4TH

SECTION:- MA2

NAME OF THE FACULTY : (1) ER. GOURI SANKAR PRADHAN, (2) ER. KAMALAKANTA TRIPATHY (LECT. IN MECH. ENGG),  
(3) MR. BHIMASEN ROUT (INSTRUCTOR)

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

PRACTICAL SUBJECT: WORKSHOP PRACTICE-III (PR-3)

CLASS ALLOTTED /WEEK :- 06 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
(I)	MACHINING PRACTICES			
1	Job in evolving drilling, boring	Feb	04	Dt. 15.02.2023 , 22.02.2023 25.02.2023 , 01.03.2023
2	Internal/External threading on Turning jobs	March	04	Dt. 04.03.2023 , 10.03.2023 15.03.2023 , 18.03.2023
3	Job in evolving use of Capstan and turret lathe (Taper Turning & Chamfering)		04	Dt. 22.03.2023 , 25.03.2023 05.04.2023 , 08.04.2023
4	All gear lathe, CNC Lathe Trainer Practice Job involving all turning process on MS Rod & aluminum rod for jobs using CNC Lathe trainer.	April	04	Dt. 12.04.23 , 15.04.2023 19.04.2023 , 22.04.2023
(II)	METAL MACHINING			
5	Shaper- Preparation of V Block on CI or MS Blocks		04	Dt. 26.04.2023 , 29.04.2023 03.05.2023 , 06.05.2023
6	Milling Machine- Preparation of Spur gear on CI or MS round	May	04	Dt. 10.05.2023 , 13.05.2023 17.05.2023 , 20.05.2023

G. Pradhan - K. Tripathy  
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Kamalakanta Tripathy  
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Pradha  
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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:- MECHANICAL ENGINEERING

SEMESTER: 4TH

SECTION:- MA2

NAME OF THE FACULTY:- (1) ER. KEDARA KUMAR PRADHAN, (2) ER. RASABIHARI SAHU (LECT. IN MECH. ENGG.)

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

PRACTICAL SUBJECT : TECHNICAL SEMINAR (PR-4)

CLASS ALLOTTED /WEEK:- 03 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
01.	Selection of topics.		02	Dt. 17.02.2023, 24.02.2023
02.	Discussion about different topics		02	Dt. 08.03.2023, 10.03.2023
03.	Report writing Skill. practice		02	Dt. 17.03.2023, 24.03.2023
04.	Power point presentation practice		03	Dt. 31.03.2023, 21.04.2023 28.04.2023
05.	Seminar presentation & Final Report Submission.		04	Dt. 05.05.2023, 12.05.2023, 17.05.2023, 24.05.2023.

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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:- MECHANICAL ENGG.

SEMESTER: 4TH

SECTION :MA2

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

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

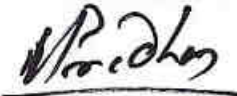
PRACTICAL SUBJECT: STUDENT CENTRED ACTIVITIES

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. 16.02.2023 , 23.02.2023 02.03.2023
02.	Seminar on different technical topics	March	04	Dt. 09.03.2023 , 16.03.2023 23.03.2023 , 06.04.2023
03.	Seminar on different environmental issues	April	03	Dt. 13.04.2023 , 20.04.2023 27.04.2023
04.	Personality development class	May	03	Dt. 04.05.2023 , 11.05.2023 18.05.2023

   
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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MECHANICAL ENGG.

SEMESTER: 4TH

SECTION:- MB1

NAME OF THE FACULTY : (1) ER. TARANISEN MOHANTY (H.O.D., MECH. ENGG.), (2) ER. HIMANSU SEKHAR SAMAL (LECT. IN MECH. ENGG.), (3) ER. PRADEEP KUMAR SAHOO (T.A., MECH. ENGG.)

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

PRACTICAL SUBJECT: THEORY OF MACHINES & MEASUREMENTS LAB (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	Determination of centrifugal force of a governor (Hart Nell / Watt/Porter).	FEBRUARY	09	Dt-03.02.23, 22.02.23 25.02.23
2	Study & demonstration of static balancing apparatus.	MARCH	09	Dt-01.03.23, 04.03.23
3	Study & demonstration of journal bearing apparatus.		09	Dt-11.03.23, 15.03.23
4	Study of different types of Cam and followers		09	Dt-18.03.23, 22.03.23,
5	Study & demonstration of epicyclic gear train		09	Dt-25.03.23, 30.03.23
6	Determination of the thickness of ground M.S flat to an accuracy of 0.02mm using Vernier Caliper.	APRIL	09	12.04.23 Dt-05.04.23, 08.04.23,
7	Determination of diameter of a cylindrical component to an accuracy of 0.01mm using micrometer.		09	22.04.23 Dt-15.04.23, 19.04.23
8	Determine the heights of gauge blocks or parallel bars to accuracy of 0.02mm using Vernier height gauge.		09	Dt-26.04.23, 29.04.23
9	Determine the thickness of ground MS plates using slip gauges	MAY	09	Dt-02.05.23, 06.05.23 10.05.23
10	Determination of angel of Machined surfaces of components using sin bar with slip gauges		09	Dt-13.05.23, 17.05.23 20.05.23

*Sm* *Taranis Mohanty*

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*Taranis Mohanty*

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*V. Pradeep*

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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MECHANICAL ENGG.

SEMESTER: 4TH

SECTION:- MB1

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


SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

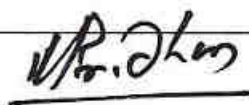
PRACTICAL SUBJECT: MECHANICAL ENGINEERING LAB-II (PR-2)

CLASS ALLOTTED /WEEK :- 06 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
1	Study of 2-S, 4-S petrol & diesel engine models	FEBRUARY	09	Dt. 16.02.23, 17.02.23
2	Determine the brake thermal efficiency of single cylinder petrol engine.		09	Dt. 23.02.23, 24.02.23
3	Determine the brake thermal efficiency of single cylinder diesel engine.	MARCH	09	Dt. 02.03.23, 03.03.23
4	Determine the B.H.P, I.H.P BSFC of a multi cylinder engine by Morse test		09	Dt. 09.03.23, 10.03.23
5	Determine the B.H.P, I.H.P BSFC of a multi cylinder engine by Morse test		09	Dt. 16.03.23, 17.03.23 23.03.23
6	Study of pressure measuring devices (manometer, Bourdon tube pressure gauge)		09	Dt. 24.03.23, 31.03.23
7	Verification of Bernoulli's theorem	APRIL	09	Dt. 06.04.23, 13.04.23 20.04.23
8	Determination of Cd from venturimeter		09	Dt. 21.04.23, 27.04.23 28.04.23
9	Determination of Cc, Cv, Cd from orifice meter	MAY	09	Dt. 04.05.23, 05.05.23 11.05.23
10	Determine of Darcy's coefficient from flow through pipe		09	Dt. 12.05.23, 18.05.23

  
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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MECHANICAL ENGG.

SEMESTER: 4TH

SECTION:- MB1

NAME OF THE FACULTY : (1) ER. HIMANSU SEKHAR SAMAL (LECT. IN MECH. ENGG.), (2) ER. GOBINDA BARIK (T.A., MECH. ENGG.)

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

PRACTICAL SUBJECT: WORKSHOP PRACTICE-III (PR-3)

CLASS ALLOTTED /WEEK :- 06 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
(I)	MACHINING PRACTICES	FEBRUARY		
1	Job in evolving drilling, boring		15	Dt. 14.02.23, 20.02.23, 21.02.23 27.02.23
2	Internal/External threading on Turning jobs	MARCH	15	Dt. 06.03.23, 13.03.23, 14.03.23 20.03.23, 21.03.23
3	Job in evolving use of Capstan and turret lathe (Taper Turning & Chamfering)		15	Dt. 27.03.23, 28.03.23 03.04.23, 04.04.23, 10.04.23
4	All gear lathe, CNC Lathe Trainer Practice Job involving all turning process on MS Rod & aluminum rod for jobs using CNC Lathe trainer.	APRIL	15	Dt. 11.04.23, 17.04.23, 18.04.23 24.04.23, 25.04.23
(II)	METAL MACHINING			
5	Shaper- Preparation of V Block on CI or MS Blocks	MAY	15	Dt. 01.05.23, 02.05.23 08.05.23, 09.05.23
6	Milling Machine- Preparation of Spur gear on CI or MS round		15	Dt. 15.05.23, 16.05.23 22.05.23, 23.05.23

*H. Samal*

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*G. Mohanty*

SIGNATURE OF THE H.O.D.

*U. P. Das*

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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:- MECHANICAL ENGINEERING

SEMESTER: 4TH

SECTION:- MB1

NAME OF THE FACULTY:- (1) ER. KEDARA KUMAR PRADHAN, (2) ER. RASABIHARI SAHU (LECT. IN MECH. ENGG.)

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

PRACTICAL SUBJECT : TECHNICAL SEMINAR (PR-4)

CLASS ALLOTTED /WEEK:- 03 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
01.	Selection of topics.	Feb	02	Dt. 16.02.2023 , 23.02.2023
02.	Discussion about different topics.	March	02	Dt. 02.03.2023 , 09.03.2023
03.	Report writing skills		02	Dt. 16.03.2023 , 23.03.2023
04.	Power point Presentation practice	April	03	Dt. 06.04.2023 , 13.04.2023 , 20.04.2023
05.	Seminar presentation & Final Report submission	May.	04	Dt. 27.04.2023 , 04.05.2023 , 11.05.2023 , 18.05.2023

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SIGNATURE OF THE H.O.D.

*Pradharan*

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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:- MECHANICAL ENGG.

SEMESTER: 4TH

SECTION :MB1

NAME OF THE FACULTY : (1) ER. KAMALAKANTA TRIPATHY, (2) ER. BIKASH RANJAN 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: STUDENT CENTRED ACTIVITIES

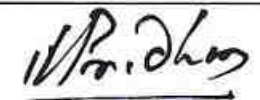
CLASS ALLOTTED /WEEK :- 03 PERIODS

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.	FEBRUARY	06	Dt. 17.02.23, 24.02.23
02	Technical Quiz	MARCH	06	Dt. 03.03.23, 10.03.23, 17.03.23
03	personality development class.		06	Dt. 24.03.23, 31.03.23
04	Seminar on environmental issues	APRIL	06	Dt. 21.04.23, 28.04.23
05	Library study.	MAY	06	Dt. 05.05.23, 12.05.23



  
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**PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23**

BRANCH:-MECHANICAL ENGG.

SEMESTER: 4TH

SECTION:- MB2

NAME OF THE FACULTY : (1) ER. TARANISEN MOHANTY (H.O.D., MECH. ENGG.), (2) ER. HIMANSU SEKHAR SAMAL (LECT. IN MECH. ENGG.), (3) ER. PRADEEP KUMAR SAHOO (T.A., MECH. ENGG.)

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

PRACTICAL SUBJECT: THEORY OF MACHINES & MEASUREMENTS LAB (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	Determination of centrifugal force of a governor (Hart Nell / Watt/Porter).	FEBRUARY	09	Dt. 16.02.23, 17.02.23
2	Study & demonstration of static balancing apparatus.		09	Dt. 23.02.23, 24.02.23
3	Study & demonstration of journal bearing apparatus.	MARCH	09	Dt. 02.03.23, 03.03.23
4	Study of different types of Cam and followers		09	Dt. 09.03.23, 10.03.23
5	Study & demonstration of epicyclic gear train		09	Dt. 16.03.23, 17.03.23
6	Determination of the thickness of ground M.S flat to an accuracy of 0.02mm using Vernier Caliper.		09	Dt. 23.03.23, 24.03.23 31.03.23
7	Determination of diameter of a cylindrical component to an accuracy of 0.01mm using micrometer.	APRIL	09	Dt. 06.04.23, 13.04.23 20.04.23
8	Determine the heights of gauge blocks or parallel bars to accuracy of 0.02mm using Vernier height gauge.		09	Dt. 21.04.23, 27.04.23 28.04.23
9	Determine the thickness of ground MS plates using slip gauges	MAY	09	Dt. 04.05.23, 05.05.23 11.05.23
10	Determination of angel of Machined surfaces of components using sin bar with slip gauges		09	Dt. 12.05.23, 18.05.23

*H. Samal* *SP* *Pradeep*

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*T. Mohanty*

SIGNATURE OF THE H.O.D.

*H. S. Samal*

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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MECHANICAL ENGG.

SEMESTER: 4TH

SECTION:- MB2

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

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

PRACTICAL SUBJECT: MECHANICAL ENGINEERING LAB-II (PR-2)

CLASS ALLOTTED /WEEK :- 06 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
1	Study of 2-S, 4-S petrol & diesel engine models	FEBRUARY	09	Dt - 15.02.23, 22.02.23 25.02.23
2	Determine the brake thermal efficiency of single cylinder petrol engine.	MARCH	09	Dt. 01.03.23, 04.03.23 11.03.23
3	Determine the brake thermal efficiency of single cylinder diesel engine.		09	Dt. 15.03.23, 18.03.23
4	Determine the B.H.P, I.H.P BSFC of a multi cylinder engine by Morse test		09	Dt. 29.03.23 Dt. 22.03.23, 25.03.23
5	Determine the B.H.P, I.H.P BSFC of a multi cylinder engine by Morse test	APRIL	09	Dt. 05.04.23, 08.04.23
6	Study of pressure measuring devices (manometer, Bourdon tube pressure gauge)		09	18.04.23 Dt. 12.04.23, 15.04.23 29.04.23
7	Verification of Bernoulli's theorem		09	Dt. 22.04.23, 25.04.23
8	Determination of Cd from venturimeter	MAY	09	Dt. 03.05.23, 06.05.23
9	Determination of Cc, Cv, Cd from orifice meter		09	Dt. 10.05.23, 13.05.23
10	Determine of Darcy's coefficient from flow through pipe		09	Dt. 17.05.23, 20.05.23

    
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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MECHANICAL ENGG.

SEMESTER: 4TH

SECTION:- MB2

NAME OF THE FACULTY : (1) ER. HIMANSU SEKHAR SAMAL (LECT. IN MECH. ENGG.), (2) ER. GOBINDA BARIK (T.A., MECH. ENGG.)

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

PRACTICAL SUBJECT: WORKSHOP PRACTICE-III (PR-3)

CLASS ALLOTTED /WEEK :- 06 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
(I)	MACHINING PRACTICES			
1	Job in evolving drilling, boring	FEBRUARY	15	Dt-14.02.23, 20.02.23 21.02.23, 27.02.23, 28.02.23
2	Internal/External threading on Turning jobs	MARCH	15	Dt-06.03.23, 13.03.23 14.03.23, 20.03.23
3	Job in evolving use of Capstan and turret lathe (Taper Turning & Chamfering)		15	Dt-21.03.23, 27.03.23 28.03.23
4	All gear lathe, CNC Lathe Trainer Practice Job involving all turning process on MS Rod & aluminum rod for jobs using CNC Lathe trainer.	APRIL	15	Dt-03.04.23, 04.04.23 10.04.23, 11.04.23, 17.04.23
(II)	METAL MACHINING			
5	Shaper- Preparation of V Block on CI or MS Blocks		15	Dt-18.04.23, 24.04.23, 25.04.23 01.05.23, 02.05.23, 08.05.23
6	Milling Machine- Preparation of Spur gear on CI or MS round	MAY	15	Dt-09.05.23, 15.05.23, 16.05.23 22.05.23, 23.05.23



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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:- MECHANICAL ENGINEERING

SEMESTER: 4TH

SECTION:- MB2

NAME OF THE FACULTY:- (1) ER. KEDARA KUMAR PRADHAN, (2) ER. RASABIHARI SAHU (LECT. IN MECH. ENGG.)

SEMESTER FROM DT. 13.02.2023 TO 23.05.2023

PRACTICAL SUBJECT : TECHNICAL SEMINAR (PR-4)

CLASS ALLOTTED /WEEK:- 03 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
01.	Selection of topics.	Feb	02	Dt. 16.02.2023 , 23.02.2023
02.	Discussion about different topics.	March	02	Dt. 02.03.2023 , 09.03.2023
03.	Report writing practice		02	Dt. 16.03.2023 , 23.03.2023
04.	Power point presentation practice	April	03	Dt. 30.03.2023, 13.04.2023 20.04.2023
05.	Seminar presentation & Final report submission.	May	04	Dt. 27.04.2023 , 04.05.2023 11.05.2023 , 18.05.2023



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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:- MECHANICAL ENGG.

SEMESTER: 4TH

SECTION :- MB2

NAME OF THE FACULTY : (1) ER. KAMALAKANTA TRIPATHY, (2) ER. BIKASH RANJAN 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: 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	FEBRUARY	06	Dt-17.02.23, 24.02.23
02	Technical quiz	MARCH	06	Dt-03.03.23, 10.03.23, 17.03.23
03	personality development class		06	Dt-24.03.23, 31.03.23
04	Seminar on environmental issues	APRIL	06	Dt-21.04.23, 28.04.23
05	Library study.	MAY	06	Dt-05.05.23, 12.05.23

*BRS* *Mr. Tripathy*

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*Mr. Ranjan*

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*Mr. D. K.*

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