P.C.I.E.T., CHHENDIPADA, DIST-ANGUL THEORY LESSON PLAN FOR THE SESSION 2023 - 24 **BRANCH:-MECHANICAL ENGINEERING** SEMESTER: 3RD NAME OF THE FACULTY: (1) ER. SUBHASMITA JENA, SECTION: MA (2) ER. SAMIR PRASAD SAHU, (LECT. IN MECH. ENGG.) SEMESTER FROM: DT. 01.08.2023 TO 09.12.2023 THEORY SUBJECT: PRODUCTION TECHNOLOGY (TH-1) CLASS ALLOTTED /WEEK: 04 PERIODS NO OF PERIODS AS SI. **CHAPTERS TO BE COVERED** PER ACADEMIC MONTH **ACTUAL PROGRESS OF THE COURSES MADE** No. **CALENDAR** METAL FORMING PROCESSES 7 AUGUST 01.08.23, 03.08.23 Extrusion: Definition & Classification Dt. 04.08.23,06.08.23 Explain direct, indirect and impact extrusion process 2 Define rolling Classify it REVICTON'S DIVIDIOS

	Define rolling. Classify it.	1	D+. 07.08.23 KEVISION: 01.12.23
	Differentiate between cold rolling and hot rolling process.	2	Dt.08.08.23,10.08.23
	types of rolling mills used in Rolling process.	1	
	WELDING	16	
	Define welding and classify various welding processes.	1	D4. 11.0 8.53
	Explain fluxes used in welding.	1	D4.14.08.73
	Explain Oxy-acetylene welding process.	2	Di-17-08.23,18.08.23
	Explain various types of flames used in Oxy-acetylene welding process.	1	Dt.21.08.53
2	Explain Arc welding process.	2	Dy . 22.04.23 24.08.23
-	Specify arc welding electrodes.	2	Dt. 25.08.23, 28.08.23
	Define resistance welding and classify it.	2	24.29.08.23, 31.08.23
	Describe various resistance welding processes such as butt welding, spot welding, flash welding, projection welding and seam welding.	2	D4.04.04.53 € 02.04.53
	Explain TIG and MIG welding process	2	DA-07.09.23, 08.09.23
	State different welding defects with causes and remedies	1	D+ 11.09.22

SL. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	CASTING	15		
	Define Casting and Classify the various Casting processes	1		Dt. 12.09.23
	Explain the procedure of Sand mould casting	2		Revision:
	Explain different types of molding sands with their composition and properties.	2		D4-14.04.23, 15.04.23 08.12,23,07.12.23
	Classify different pattern and state various pattern allowances	2		DA. 22.09.23, 25.04.23
3	Classify core	1		Dt. 26.09:23, 28.09:23
	Describe construction and working of cupola and crucible furnace.	2	OCTOBER	Dd. 03.10.23, 05.10.23
	Explain die casting method.	2		D+.06. 10.23, 04.10.23
	Explain centrifugal casting such as true centrifugal casting, centrifuging with advantages, limitation and area of application.	2		D+.10:10:23, 12:10:23
	Explain various casting defects with their causes and remedies.	2		Dt. 13.10.23, 16.10.23
	POWDER METALLURGY	5		
	Define powder metallurgy process	1		DI-17-10-23
4	State advantages of powder metallurgy technology technique	1		Dt. 19.10.23
	Describe the methods of producing components by powder metallurgy technique	1		D+20·10:23
	Explain sintering	1		D1. 30.10.23
	Economics of powder metallurgy	1		D+·31-10·33
	PRESS WORK	7	NOVEMBER	
	Describe Press Works: blanking, piercing and trimming	2		Di. 02-11:23, 03-11:23
5	List various types of die and punch	2		Dt. 06-11-23 07-11-23
	Explain simple, Compound & Progressive dies	2		D4.09.11.23, 10.11.23
	Describe the various advantages & disadvantages of above dies	1		D4.13.11.23

SI. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	JIGS AND FIXTURES	7		
	Define jigs and fixtures	1		Dt-14.11.23,16.11.23
6	State advantages of using jigs and fixtures	1		Dt-1711.23
	State the principle of locations	2		24.20.11.23 21.11.23
	Describe the methods of location with respect to 3-2-1 point location of rectangular jig	2		Di-23.11.23,24.11.23, 28.11.23
	List various types of jig and fixtures	1		Di 30:11:23

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		I.E.T., CHHENDIPADA		
	THEORY L	ESSON PLAN FOR TI	HE SESSION 20	23 - 24
	ANCH:- MECHANICAL ENGINEERING SEMESTE MA	R: 3RD SECTION:-	NAME OF THE MECH. ENGG.), ENGG.)	FACULTY: (1) ER. TARANISEN MOHANTY (H.O.D., (2) ER. SHUBHAM PRADHAN (LECT. IN MECH.
	STER FROM : DT. 01.08.2023 TO 09.12.2023		THEORY SUBJE	ECT: STRENGTH OF MATERIAL (TH-2)
LAS	SS ALLOTTED /WEEK: 04 PERIODS		_	
SI. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	SIMPLE STRESS & STRAIN	10	AUGUST	
	Types of load, stresses & strains,(Axial and tangential) Hooke's law, Young's modulus, bulk modulus, modulus of rigidity, Poisson's ratio, derive the relation between three elastic constants	4		<u> </u> ፲፱፻፱፱ ፲፱፻፱፱ ፲፱፻፱፱ ፲፱፻፱፱ ፲፱፻፱፱ ፲፱፻፱፱ ፲፱፻፱፱ ፲፱፻፱፱ ፲፱፻፱፱ ፲፱፱ ፲
1	Principle of super position, stresses in composite section	2		D1.04.08.23, 08.08.23
	Temperature stress, determine the temperature stress in composite bar (single core)	1		D4-10-08-23,11-08-23
	Strain energy and resilience, Stress due to gradually applied, suddenly applied and impact load	2		D1-14.08.23, 17.08.23
	Simple problems on above	1		DA-18-08-23
	THIN CYLINDER AND SPHERICAL SHELL UNDER INTERNAL PRESSURE	8	-	
	Definition of hoop and longitudinal stress, strain	1		D1.21.08.23
2	Derivation of hoop stress, longitudinal stress, hoop strain, longitudinal strain and volumetric strain	3		
	Computation of the change in length, diameter and volume	2		D1.28.08.23, 24.08.23, 25.08.23 D1.28.08.23, 29.08.23, 31.08.23
	Simple problems on above	2	SEPTEMBER	21-04-09-23, 05-09-23

SI. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	TWO DIMENSIONAL STRESS SYSTEMS	10		
3	Determination of normal stress, shear stress and resultant stress on oblique plane	2		DA-07-04:23, 08-04:23
	Location of principal plane and computation of principal stress	4		
	Location of principal plane and computation of principal stress andMaximum shear stress using Mohr's circle	4		Dt·11:09:23, 12:09:23, 14:09:23, 15:09:23 Dt·18:09:23, 21:09:23, 22:09:23, 25:09:23
	BENDING MOMENT & SHEAR FORCE	10		
	Types of beam and load	2		D1.26.04.23, 28.04.23
4	Concepts of Shear force and bending moment	3	OCTOBER	D4.03.10.23,05.10.23,06.10.23
	Shear Force and Bending moment diagram and its salient features illustration in cantilever beam, simply supported beam and over hanging beam under point load and uniformly distributed load	5		13.1023, 16.10.23
	THEORY OF SIMPLE BENDING	10		
	Assumptions in the theory of bending,	3		Df. 17:10:23, 19:10:23, 20:10:23
5	Bending equation, Moment of resistance, Section modulus& neutral axis.	5	NOVEMBER	D1.30-10.23, 31.10.23, 02.11.23
	Solve simple problems	2		DA-07-11-23,09-11-23
	COMBINED DIRECT & BENDING STRESSES	6		
6	Define column	2		Dt. 10.11.23, 12.11.23
	Axial load, Eccentric load on column	4		D4-14-11-23 16-11-23, 17-11-23, 20-11-23

SI No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	TORSION	6		
	Assumption of pure torsion	2		Pi-21-11-23, 23-11-23
7	The torsion equation for solid and hollow circular shaft	2		D1.24.11:23,28:11:23,301123
	Comparison between solid and hollow shaft subjected to pure torsion	2	DECEMBER	D+ 01-12-25, 04-12-23, 05-12-23

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- 100		I.E.T., CHHENDIPAD		
	THEORY L	ESSON PLAN FOR T	HE SESSIO	N 2023 - 24
	BRANCH:-MECHANICAL ENGINEERING SEN SECTION: MA	MESTER: 3RD	NAME OF THE	HE FACULTY : (1) ER. KAMALAKANTA TRIPATHY, (2) ER. AR SAHOO (LECT. IN MECH. ENGG.)
	ESTER FROM: DT. 01.08.2023 TO 09.12.2023 SS ALLOTTED /WEEK: 04 PERIODS		THEORY S	SUBJECT: ENGINEERING MATERIAL (TH-3)
SI. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
1	ENGINEERING MATERIALS AND THEIR PROPERTIES	5	AUGUST	
	Material classification into ferrous and non ferrous category and alloys	1		D101:08.53
	Properties of Materials: Physical , Chemical	1	,	D4.02.08.23
	Properties of Mechanical	1		N-03-08-23
	Performance requirements	1		Dt-07.08.23
	Material reliability and safety	1		D4.08.08.23
2	FERROUS MATERIALS AND ALLOYS	4		
	Characteristics and application of ferrous materials	1		D1-09-08-23
	Classification, composition and application of low carbon steel, medium carbon steel and High carbon steel	1		D4.10.08.53
	Alloy steel: Low alloy steel, high alloy steel, tool steel and stainless steel	1		DA-14.08.23
	Tool steel: Effect of various alloying elements such as Cr, Mn, Ni, V, Mo,	1		D1.16.08.23
3	IRON - CARBON SYSTEM	8		
	Concept of phase diagram and cooling curves	3		D1-17-08-23/21-08-23 22-08-22
	Features of Iron-Carbon diagram with salient micro- constituents of Iron and Steel	5		コナ・14・0名・ンタ・フォ・フィ・0名・フィ・0名・フィ・0名・フィ・0名・フィ・0名・フィ・0名・フィ・0名・フィ・0名・フィ・0名・フィ・0名・フィ

SI. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
4	CRYSTAL IMPERFECTIONS	10	SEPTEMBE	
	Crystal defines, classification of crystals, ideal crystal and crystal imperfections			D1.04.04.23
	Classification of imperfection: Point defects, line defects, surface defects and volume defects	1		D1.05.04.23
	Types and causes of point defects: Vacancies, Interstitials and impurities	1		Di.07.09.23
	Types and causes of line defects: Edge dislocation and screw dislocation	2	the factor of	Dt-11:09:23, 12:09:23
	Effect of imperfection on material properties	2		Dh. 13:09:23, 14:09:23
	Deformation by slip and twinning	2		D+18.09.21,21.09.23
	Effect of deformation on material properties	1	******	
5	HEAT TREATMENT	10		D1.25.09.23
	Purpose of Heat treatment	1		D1.26 109123
	Process of heat treatment: Annealing, normalizing, hardening, tampering, stress relieving measures	4		D1.74.00.73, 78.00.73, 03.10.73 04.10.5
	Surface hardening: Carburizing and Nitriding	2	OCTOBER	D+. 05-10.23 DB-10.23
	Effect of heat treatment on properties of steel	2	DETOBOL	D4.10.10.23,11.10.23
	Hardenability of steel	1		27.12.10.23
6	NON-FERROUS ALLOYS	10		2000
	Aluminum alloys: Composition, property and usage of Duralmin, y- alloy.	3	,	Dt.16.10.23, 17.10.23, 18.10.23
	Copper alloys: Composition, property and usage of Copper- Aluminum, Copper-Tin, Babbit , Phosperous bronze, brass, Copper- Nickel	3		DA-14-10-23,30-10-23,31-10-23
	Predominating elements of lead alloys, Zinc alloys and Nickel alloys	3	NOVEDBER	

SI. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	Low alloy materials like P-91, P-22 for power plants and other high temperature services. High alloy materials like stainless steel grades of duplex, super duplex materials etc.	1	8 8 8	•
7	BEARING MATERIAL	3		
	Classification, composition, properties and uses of Copper base, Tin Base, Lead base, Cadmium base bearing materials	3		
8	SPRING MATERIALS	3		
	Classification, composition, properties and uses of Iron-base and Copper base spring material	3		
9	POLYMERS	3		
	Properties and application of thermosetting and thermoplastic polymers	2		
	Properties of elastomers	1		
10	COMPOSITES AND CERAMICS	3		
	Classification, composition, properties and uses of particulate based and fiber reinforced composites	2	,	
	Classification and uses of ceramics	1		

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THEORY LESSON PLAN FOR THE SESSION 2023 - 24

BRANCH:-MECHANICAL ENGINEERING SECTION: MA

SEMESTER: 3RD

NAME OF THE FACULTY: (1) ER. SATYANARAYAN MAJHI, (2) ER. HIMANSU SEKHAR SAMAL (LECT. IN MECH ENGG.)

SEMESTER FROM: DT. 01.08.2023 TO 09.12.2023

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

SI. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	THERMODYNAMIC CONCEPT & TERMINOLOGY	12	AUGUST	<u> </u>
	Thermodynamic Systems (closed, open, isolated)	1		D1.02.08.23
	Thermodynamic properties of a system	2		D4-03-08-23 04-08-53
	Intensive and extensive properties	1		⊅ 1 ·0 1 ·08·23
	Define thermodynamic processes, path, cycle , state, path function, point function	3		D-1.04.08.53, 10.08.53, 11.08.53
1	Thermodynamic Equilibrium	2		DJ-14-08-23,16-08-23
	Quasi-static Process	1		Di-17-08-23
	Conceptual explanation of energy and its sources	. 1		D4.18.08.33
	Work , heat and comparison between the two	1		Df. 81.08.33
	Mechanical Equivalent of Heat	1		D1.23.08.23
	Work transfer, Displacement work	2		D1.54.08.53 52.08.53

SI. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	LAWS OF THERMODYNAMICS	12		
	State & explain Zeroth law of thermodynamics	2		Dd·28.08.23,31.08.23
	State & explain First law of thermodynamics	1	September	M·01.04.53
2	Limitations of First law of thermodynamics	2		Di-04.04.53 04.04.53
	Application of First law of Thermodynamics	2		D1.08.09.23, 11.04.23
	Second law of thermodynamics	2	=	DA-12.0 0.23, 14.09.23
	Application of second law in heat engine,	2		DA-15-09-23, 18-0 9-23
	PROPERTIES PROCESSES OF PERFECT GAS	10		
	Laws of perfect gas:	2		D1.21.04.23, 22.04.23
	Explain specific heat of gas (Cp and Cv)	1		D1.25.04.23
	Relation between Cp & Cv.	1		D1.27.09.23
3	Enthalpy of a gas	1		DA-28.0 9.53
	Work done during a non- flow process	1	OCTOBER	⊅ł·04·10·23.
	Application of first law of thermodynamics to various non flow process (Isothermal, Isobaric, Isentropic and polytrophic process	2		N. 05.10.23, 0610.23
	Solve simple problems on above.	1		Dt. 09:10:23
	Free expansion & throttling process	1		Di-11.10.23

SI. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	INTERNAL COMBUSTION ENGINE	8		
	Explain & classify I.C engine.	2		Df-12-10-23, 13-10-23
4	Terminology of I.C Engine such as bore, dead centers, stroke volume, piston speed &RPM.	2		Di. 16.10.23 18.10.23
	Explain the working principle of 2-stroke & 4- stroke engine C.I & S.I engine.	2	• 11 1-1	D4.10.10.53 90.10.53
	Differentiate between 2-stroke & 4- stroke engine C.I & S.I engine.	2		Dt.30-10-23, Dt.1-11-23
	GAS POWER CYCLE	10	NOYEMBER	
5	Carnot cycle	2	TO LEWIS EN	D4.02.11.23, 03.11.23
	Otto cycle	3		14.06.11.23,08.11.23,09.11.23
5	Diesel cycle.			M. (1841) 25,0811 25,0911 25
	Dual cycle.	2		24.10.1123, 13.11.23
	Solve simple numerical.	3		
	FUELS AND COMBUSTION	8		Dh15-11:23, 16-11:23, 17-11:23
	Define Fuel.	1		Di-2011:23, 2211:23
	Types of fuel.	2		21.2311.23, 24.11.23
6	Application of different types of fuel.	1	,	Dt.29.11.23,3011.23
	Heating values of fuel	2	DE CED RE	DA. 01-12-23, 04-12-23
	Quality of I.C engine fuels Octane number, Cetane number.	2		D1.06.12.23 04H2.23 04.15.23

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THEORY LESSON PLAN FOR THE SESSION 2023 -24

BRANCH:-MECHANICAL ENGINEERING SECTION: MA

SEMESTER: 3RD

NAME OF THE FACULTY: (1) ER. MANAS RANJAN BEHERA, (2) ER. SHUBHAM PRADHAN (LECT. IN MECH. ENGG.)

SEMESTER FROM: DT. 01.08.2023 TO 09.12.2023

THEORY SUBJECT: ENVIRONMENTAL STUDIES (TH-5)

SI. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
1	UNIT 1 : THE MULTIDISCIPLINARY NATURE OF ENVIRONMENTAL STUDIES	4	AUGUST	
	Definition, scope and importance, Need for public awareness.	4		D+01.08.23" 02.08.54" 01.08.72" 02.08:
	UNIT 2 : NATURAL RESOURCES	10	1	
2	Natural resources and associated problems: Forest resources, Water resources, Mineral Resources, Food Resources, Energy Resources, Land Resources.	5		D1-12-08-23, 16-08-23, 11-08-23, 02-112-23
	Role of individual in conservation of natural resources.	2		D4.18.08.23, 19.08.23
	Equitable use of resources for sustainable lifestyles.	3		Dt- 22.08.23, 23.08.23, 25.08.23
	UNIT 3: SYSTEMS	8		
	Concept of an ecosystem.Structure and function of an ecosystem.	1		21-26-08-23
	Producers, consumers, decomposers.	1		D1-29-08-23
	Energy flow in the ecosystems.	1	SEPTEM2	BR D1.01.09.23
3	Ecological succession.	1		Dt.02,09.23
	Food chains, food web sand ecological pyramids.	1		D1 75-09.23
	Introduction, types, characteristic features, structure and function of the following ecosystem.	1	¥	D1.08.09.23
	Forest ecosystem.	1		D1 - 09. 09.23
	Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries).	1		D1.12.09.23

SI. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	UNIT 4 : BIODIVERSITY AND ITS'S CONSERVATION	8		
	Introduction-Definition: genetics, species and ecosystem diversity.	2		Dd .13.09.23,15.09.23
	Biogeographically classification of India.	1		Dt. 16.09.23
4	Value of biodiversity: consumptive use, productive use, social ethical, aesthetic and opt in values.	2		27-22.09.23,23.09.23
	Biodiversity at global, national and local level.	2		27.26.09.23
	Threats to biodiversity: Habitats loss, poaching of wild life, man wildlife conflicts.	1		D1.27.09.23
	UNIT 5 : ENVIRIONMENTAL POLLUTION	12		
	Definition Causes, effects and control measures of:Air pollution, Water pollution, Soil pollution, Marine pollution, Noise pollution, Thermal pollution, Nuclear hazards.	4	OCTOBER	Dt-06.10.23 Dt-30.09.23, 03.10.23, 04.10.23
5	Solid waste Management: Causes, effects and control measures of urban and industrial wastes.	4	3	カナ・ロオ・10・23、10・10・23、11・10・23
	Role of an individual in prevention of pollution	2		·
	Disaster management: Floods, earth quake, cyclone and landslides.	2		DA-13.10.23, 14,10.23, 17,10.29
	UNIT 6 : SOCIAL ISSUES AND THE ENVIRONMENT	10		
6	Urban problems related to energy, Water conservation, rain water harvesting, water shed management.Resettlement and rehabilitation of people; its problems and concern.	3	1. 4	DA: 31.10.23, 01.11.23, 02.11.23
	Environmental ethics: issue and possible solutions.	2		
	Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust, case studies.	2		Dt.04.11.23, 07.11.23

SI. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	Air (prevention and control of pollution) Act, Water (prevention and control of pollution) Act.	2		D4-11-11-23, 14-11-23
	Public awareness	1		Dt-15-11-23, 17·11-23
	UNIT 7: HUMAN POPULATION AND THE ENVIRONMENT	8		277-13-11-23, 14-11-23
	Population growth and variation among nations, Population explosion-family welfare program.	3		Dhug.11:23,21:11:23,22:11:23
7	Environment and human health.	1		Dt. 22.11.23
	Human rights.	1		DA-24-1123
	Value education.	1		74-25-11-23
	Role of information technology in environment and human health.	2		Dt-28.11.23,20-11.23

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P.C.I.E.T., CHHENDIPADA, DIST- ANGUL THEORY LESSON PLAN FOR THE SESSION 2023 - 24 BRANCH:-MECHANICAL ENGINEERING SEMESTER: 3RD NAME OF THE FACULTY: (1) ER. SUBHASMITA JENA, SECTION: MB (2) ER. SAMIR PRASAD SAHU, (LECT. IN MECH. ENGG.) SEMESTER FROM: DT. 01.08.2023 TO 09.12.2023 THEORY SUBJECT: PRODUCTION TECHNOLOGY (TH-1) CLASS ALLOTTED /WEEK: 04 PERIODS SI. NO. CHAPTERS TO BE COVERED PER ACADEMIC CALENDAR MONTH ACTUAL PROGRESS OF THE COURSES MADE METAL FORMING PROCESSES 7 AUGUST

SI. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	METAL FORMING PROCESSES	7	AUGUST	
	Extrusion: Definition & Classification	1		Dt · 01·08·23
	Explain direct, indirect and impact extrusion process	2		D+02.08.23, 05.08.23
1	Define rolling. Classify it.	1		∆4.04.08.23
	Differentiate between cold rolling and hot rolling process.	2		D1-08.08.23, 11.08.23
	types of rolling mills used in Rolling process.	1 .		D1-12-08-23
	WELDING	16		21112100123
	Define welding and classify various welding processes.	1		Dt-14.08.23, 18.08.23
	Explain fluxes used in welding.	1		D4-19-08-23
	Explain Oxy-acetylene welding process.	2		D1-2108-23,22-04-23
	Explain various types of flames used in Oxy-acetylene welding process.	1		D1-25-08-23
2	Explain Arc welding process.	2		01.04.00.00.00.00.00.00.00
Ī	Specify arc welding electrodes.	2	SEPTEMBER	Dt. 01.00.23, 02.00.23
	Define resistance welding and classify it.	2		
	Describe various resistance welding processes such			D1.01.04.53 DE. 04.53
	as butt welding, spot welding, flash welding,	2		
	projection welding and seam welding.		,	Dt.08.00.23, 09.09.23, 11.09.23
	Explain TIG and MIG welding process	2.		DA 12-09.23.15.09.23
	State different welding defects with causes and remedies	1		24.16.09.23

SI. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	CASTING	15		
	Define Casting and Classify the various Casting processes	1		Dt-18.09.23
	Explain the procedure of Sand mould casting	2		Dd. 22.09.23,23.09.23
	Explain different types of molding sands with their composition and properties.	2		D1.25.00.53,26.00.53,30.00.53
	Classify different pattern and state various pattern allowances	2	OCTOBER.	DA. 03.10.53, 06.10.53
3	Classify core	1		Dt. 07.10.23, 09.10.23
	Describe construction and working of cupola and crucible furnace.	2		D+10.10.23, 12.10.23, 14.10.23
	Explain die casting method.	2		DA-1610.23, 17-10:23
	Explain centrifugal casting such as true centrifugal casting, centrifuging with advantages, limitation and area of application.	2		DA.20.10.23, 30.10.23
	Explain various casting defects with their causes and remedies.	2		D1.31.10.23, 03.11.23
	POWDER METALLURGY	5	NOVEMBER	
	Define powder metallurgy process	1		Dd. 04-11-23, 07-11-23,
4	State advantages of powder metallurgy technology technique	1		DJ-10-11.53
	Describe the methods of producing components by powder metallurgy technique	1		\$4.11.11.23,13.11.23
	Explain sintering	1		24.11.51.52
	Economics of powder metallurgy	1		74.17.11.23
	PRESS WORK	7		
	Describe Press Works: blanking, piercing and trimming	2		Dt. 18.11.23, 20.11.23
5	List various types of die and punch	2		74.21.11.23,24.11.23
	Explain simple, Compound & Progressive dies	2		DA-25-111-23 128-11-23
	Describe the various advantages & disadvantages of above dies	1	DECEMBER	D4.01.12.23

SI. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	JIGS AND FIXTURES	7		
	Define jigs and fixtures	1		D4.02-12-23
•	State advantages of using jigs and fixtures	1		Dt. 04. 12.23
6	State the principle of locations	2		DA 05-12-23,08-12-23
	Describe the methods of location with respect to 3-2-1 point location of rectangular jig	2		D1-09-12-23
	List various types of jig and fixtures	1		71-10-12-23

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	ANCH:- MECHANICAL ENGINEERING SEMESTE MB		NAME OF THE	FACULTY: (1) ER. TARANISEN MOHANTY (H.O.D), (2) ER. SHUBHAM PRADHAN (LECT. IN MECH.
	STER FROM : DT. 01.08.2023 TO 09.12.2023		HEORY SUBJE	CT: STRENGTH OF MATERIAL (TH-2)
SI. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	SIMPLE STRESS & STRAIN	10	AUGUST	
	Types of load, stresses & strains,(Axial and tangential) Hooke's law, Young's modulus, bulk modulus, modulus of rigidity, Poisson's ratio, derive the relation between three elastic constants	4		Df. 07.08.73, 03.08.23
1	Principle of super position, stresses in composite section	2		Dt. 09.08.23, 10.08.23
	Temperature stress, determine the temperature stress in composite bar (single core)	1		D4-11-08-23
	Strain energy and resilience, Stress due to gradually applied, suddenly applied and impact load	2		DA-14.08.53, 16.08.53
	Simple problems on above	1		D1-17-08-23
	THIN CYLINDER AND SPHERICAL SHELL UNDER INTERNAL PRESSURE	8		
	Definition of hoop and longitudinal stress, strain	1		Dt. 18.08.23
2	Derivation of hoop stress, longitudinal stress, hoop strain, longitudinal strain and volumetric strain	3		Dt. 21:08.23,23.08:23,24.08:23
	Computation of the change in length, diameter and volume	2		D1.25.08.23, 28.08.23
	Simple problems on above	2		nt-B108'23

SI. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	TWO DIMENSIONAL STRESS SYSTEMS	10	SEPTEMBER	
3	Determination of normal stress, shear stress and resultant stress on oblique plane	2		D1.01.04.53 04.04.53
	Location of principal plane and computation of principal stress	4		DI. 13.09.33
	Location of principal plane and computation of principal stress andMaximum shear stress using Mohr's circle	4		Dt. 14.04.53, 08.04.53, 11.04.53 Dt. 14.04.53, 12.04.53
	BENDING MOMENT & SHEAR FORCE	10		
	Types of beam and load	2		N.22.09.23, 25.09.23
4	Concepts of Shear force and bending moment	3		D1.27.04.23,28.04.23,04.10.53
	Shear Force and Bending moment diagram and its salient features illustration in cantilever beam, simply supported beam and over hanging beam under point load and uniformly distributed load	5	OCTOBER	
	THEORY OF SIMPLE BENDING	10		
	Assumptions in the theory of bending,	3		Dd. 12.1 n. 22.1 6.10.23. 18.10.22
5	Bending equation, Moment of resistance, Section modulus& neutral axis.	5		D4.10.10.53, 16.10.53, 18.10.53
	Solve simple problems	2	NOVEMBER	
	COMBINED DIRECT & BENDING STRESSES	6		
6	Define column	2		M. 08.11.23, 09.11.23, 10.11.23
	Axial load, Eccentric load on column	4		13-11-23, 15-11-23, 16-11-23, 17-11-23

SI. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	TORSION	6		
	Assumption of pure torsion	2		D420:11:23, 22: 11:23, 23: 11:23 24:11:23,29:11:23
7	The torsion equation for solid and hollow circular shaft	2	DECEMBER	24.11.53,24.11.53 D4.30.11.53,01.12.53.04.12.53
	Comparison between solid and hollow shaft subjected to pure torsion	2		Dt.06.12.23, 09-12.23 08-12.23

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THEORY LESSON PLAN FOR THE SESSION 2023 - 24

BRANCH:-MECHANICAL ENGINEERING SECTION: MB

SEMESTER: 3RD

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

SEMESTER FROM: DT. 01.08.2023 TO 09.12.2023

THEORY SUBJECT: ENGINEERING MATERIAL (TH-3)

SI. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
1	ENGINEERING MATERIALS AND THEIR PROPERTIES	5	AUGUST	
	Material classification into ferrous and non ferrous category and alloys	1		Dt. 01.08.23
	Properties of Materials: Physical , Chemical	1		24.02.08.33
	Properties of Mechanical	1		DY 10.3. 08.23
	Performance requirements	1		D1-04-08-23
	Material reliability and safety	1		D1.08.08.33
2	FERROUS MATERIALS AND ALLOYS	4		TO LINE AR W
	Characteristics and application of ferrous materials	1		Dt. 00.08.53
	Classification, composition and application of low carbon steel, medium carbon steel and High carbon steel	1		D1-10-08-23
	Alloy steel: Low alloy steel, high alloy steel, tool steel and stainless steel	1		Dt. 11.08.33
	Tool steel: Effect of various alloying elements such as Cr, Mn, Ni, V, Mo,	1		D4. 16.08.53
3	IRON - CARBON SYSTEM	8		
	Concept of phase diagram and cooling curves	3		D4.17.08.23.18.08.23 22.08.22
	Features of Iron-Carbon diagram with salient micro- constituents of Iron and Steel	5		D4.74.08.73 74.08.73 22.08.73 D4.14.08.73 18.08.73 22.08.73

SI. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
4	CRYSTAL IMPERFECTIONS	10	september	
	Crystal defines, classification of crystals, ideal crystal and crystal imperfections	1		D1.0109.23
	Classification of imperfection: Point defects, line defects, surface defects and volume defects	1		D4.05-09.23
	Types and causes of point defects: Vacancies, Interstitials and impurities	1	,	D4.02 50.53
	Types and causes of line defects: Edge dislocation and screw dislocation	2		D).08.09.23, 12.09.23, 12.09.23
	Effect of imperfection on material properties	2		
	Deformation by slip and twinning	2		DA-14-09-23, 15-09-23, 21-09-23
	Effect of deformation on material properties	1		D1. 24.09.23
5	HEAT TREATMENT	10		D1, 54, 64, 52
	Purpose of Heat treatment	1		D1:28.09:23
	Process of heat treatment: Annealing, normalizing, hardening, tampering, stress relieving measures	4	TOBER	
	Surface hardening: Carburizing and Nitriding	2		
	Effect of heat treatment on properties of steel	2		74-10-10-23, 11-10-23, 12-10-23 74-13-10-23, 17-10-23
	Hardenability of steel	1		DA-18-10-23
6	NON-FERROUS ALLOYS	10		131/181/0123
	Aluminum alloys: Composition, property and usage of Duralmin, y- alloy.	3		Dd·19·10·23, 20·10·23, 21·10·23
	Copper alloys: Composition, property and usage of Copper- Aluminum, Copper-Tin, Babbit , Phosperous bronze, brass, Copper- Nickel	3	TYEMBER	
	Predominating elements of lead alloys, Zinc alloys and Nickel alloys	3	1	Di·01:11:23,02:11:23,03:11:23

SI. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	Low alloy materials like P-91, P-22 for power plants and other high temperature services. High alloy materials like stainless steel grades of duplex, super duplex materials etc.	1		Dł-10·11·23
7	BEARING MATERIAL	3		DF 10 11 45
	Classification, composition, properties and uses of Copper base, Tin Base, Lead base, Cadmium base bearing materials	3		Di-14.11.53/12.11.53
8	SPRING MATERIALS	3		11 - 27 (0 11 - 25
	Classification, composition, properties and uses of Iron-base and Copper base spring material	3		D+17·11·23,21·11·23,22·11·23
9	POLYMERS	3	5	11 - 37 2 - 11 - 3
	Properties and application of thermosetting and thermoplastic polymers	2		Dt. 23.11.23, 24.11.23, Dt. 28.11.23
	Properties of elastomers	1		Di-20-11-23
10	COMPOSITES AND CERAMICS	3		
	Classification, composition, properties and uses of particulate based and fiber reinforced composites	2	DECEMBER	Dt.06-12-23
	Classification and uses of ceramics	1		Dt . 07.12.23, 08.12.23

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THEORY LESSON PLAN FOR THE SESSION 2023 - 24

BRANCH:-MECHANICAL ENGINEERING

L ENGINEERING SEMESTER: 3RD SECTION: MB

NAME OF THE FACULTY: (1) ER. SATYA NARAYAN MAJHI, (2) ER. HIMANSU SEKHAR SAMAL (LECT. IN MECH ENGG.)

SEMESTER FROM: DT. 01.08.2023 TO 09.12.2023

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

SI. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE	
	THERMODYNAMIC CONCEPT & TERMINOLOGY	12	AUGUST		
	Thermodynamic Systems (closed, open, isolated)	1		D1:08.23 02.08.23	
	Thermodynamic properties of a system	2		Dt. 04.08.23 07.08.23	
	Intensive and extensive properties	1		Dy.08.08.53	
	Define thermodynamic processes, path, cycle, state, path function, point function	3		Dt.00.08.23, 11.08.23, 14.08.23	
1	Thermodynamic Equilibrium	2		D1.16.08.23, 18.08.23	
	Quasi-static Process	1		D1-21.08.23	
	Conceptual explanation of energy and its sources	1		D1-22.08.23	
	Work , heat and comparison between the two	1		D1. 23.08.23	
	Mechanical Equivalent of Heat	1		D1- 25-08-23	
	Work transfer, Displacement work	2		D1-28.08.23,20.08.23	

SI. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	LAWS OF THERMODYNAMICS	12	SEPTEMBER.	
	State & explain Zeroth law of thermodynamics	2		D1.01.04.23 04.04.23
	State & explain First law of thermodynamics	- 1		Dt- 05-09.23, 08.09.23
2	Limitations of First law of thermodynamics	2		Dt. 11.09.23, 12.09.23
	Application of First law of Thermodynamics	2		D1.13.09.23, 15.09.23
	Second law of thermodynamics	2		Dh. 18.00.23, 22.00.23
	Application of second law in heat engine,	2		Dd. 25.09.23, 26.09.23
	PROPERTIES PROCESSES OF PERFECT GAS	10		23, 26 09 23
	Laws of perfect gas:	2		D1.27.00.23, 03.10.23
	Explain specific heat of gas (Cp and Cv)	1	OCTOBER	Diroy.10:23, 06.10:23
	Relation between Cp & Cv.	1		Dd-09-10-23, 10-10-23
3	Enthalpy of a gas	1		Dd-11-10-23
	Work done during a non- flow process	1		D4.13.10.23
	Application of first law of thermodynamics to various non flow process (Isothermal, Isobaric, Isentropic and polytrophic process	2		D1.16.10.23,17.10.23
	Solve simple problems on above.	1		DA-18-10-23, 20-10-23
	Free expansion & throttling process	1		DA-30-10-23, 31-10-22

SI. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	INTERNAL COMBUSTION ENGINE	8	NOVEMBER	
	Explain & classify I.C engine.	2		D1.0411.00 02.11.00
4	Terminology of I.C Engine such as bore, dead centers, stroke volume, piston speed &RPM.	2		D4.06.11.02 04.11.02
	Explain the working principle of 2-stroke & 4- stroke engine C.I & S.I engine.	2		
	Differentiate between 2-stroke & 4- stroke engine C.I & S.I engine.	2	2 Di.06.11.23. 2 Di.08.11.23. 10 2 Di.15.11.23.	D1-13-11-23, 14-11-23
	GAS POWER CYCLE	10	,	
	Carnot cycle	2		N.15.11.02 14.11.02
_	Otto cycle	3		
5	Diesel cycle.			D4.20.11.23, 21.11.23, 22.11.23
	Dual cycle.	2		Dd: 11.12 - 24.11.2 2
	Solve simple numerical.	3		
	FUELS AND COMBUSTION	8	DK-C-	7d.
	Define Fuel.	1		
	Types of fuel.	2		D1.05.1223,06.12.23
6	Application of different types of fuel.	1	1	D1.08.12.23
	Heating values of fuel	2		27.06.12.72
	Quality of I.C engine fuels Octane number, Cetane number.	2		

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THEORY LESSON PLAN FOR THE SESSION 2023 -24

BRANCH:-MECHANICAL ENGINEERING

LENGINEERING SEMESTER: 3RD SECTION: MB

NAME OF THE FACULTY: (1) ER. BIKASH RANJAN SAHU, (2) TAPAN KUMAR SAHU (LECT. IN CHEM.)

SEMESTER FROM: DT. 01.08.2023 TO 09.12.2023

THEORY SUBJECT: ENVIRONMENTAL STUDIES (TH-5)

SI. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
1	UNIT 1 : THE MULTIDISCIPLINARY NATURE OF ENVIRONMENTAL STUDIES	4	AUGUST	
	Definition, scope and importance, Need for public awareness.	4	PER ACADEMIC CALENDAR 4 AUGUST 10 D1.01.08.23, 10 D1.17.08.2 3 D1.17.08.2	Dt.01.08.53, 02.08.53, 03.08.53, 07.08.53
	UNIT 2 : NATURAL RESOURCES	10		
2	Natural resources and associated problems: Forest resources, Water resources, Mineral Resources, Food Resources, Energy Resources, Land Resources.	5		D4-08.08.73, 09.08.73, 10.08.73
	Role of individual in conservation of natural resources.	2		Dt. 17-08-23, 21-08-23
	Equitable use of resources for sustainable lifestyles.	3		D4.55.08.53 53.08.53 54.08.53
	UNIT 3: SYSTEMS	8		
	Concept of an ecosystem.Structure and function of an ecosystem.	1	-	DA.28.08.23
	Producers, consumers, decomposers.	1		
	Energy flow in the ecosystems.	1		
3	Ecological succession.	1	LEPTEMBE	
Ĭ	Fcod chains, food web sand ecological pyramids.	1		
	Introduction, types, characteristic features, structure and function of the following ecosystem.	1	,	
	Fcrest ecosystem.	1		
	Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries).	1		Dt-12-09-23

SI. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	UNIT 4 : BIODIVERSITY AND ITS'S CONSERVATION	8		
	Introduction-Definition: genetics, species and ecosystem diversity.	2		D+~13.09.23,14.09.23
	Biogeographically classification of India.	1		D4-18.00.53
4	Value of biodiversity: consumptive use, productive use, social ethical, aesthetic and opt in values.	2		Dt. 21.00,23, 25.00,33
	Biodiversity at global, national and local level.	2		D1.27.09.23, 24.09.23
	Threats to biodiversity: Habitats loss, poaching of wild life, man wildlife conflicts.	1	OCTOBER	
	UNIT 5 : ENVIRIONMENTAL POLLUTION	12		0,3 10 = 3
	Definition Causes, effects and control measures of:Air pollution, Water pollution, Soil pollution, Marine pollution, Noise pollution, Thermal pollution, Nuclear hazards.	4		Dt-04.10.23, 05-10.23,
5	Solid waste Management: Causes, effects and control measures of urban and industrial wastes.	4		Dt-11-10-23,12-10-23,16-10-23,
	Role of an individual in prevention of pollution	2		D1-18-10-23,19-10-23
	Disaster management: Floods, earth quake, cyclone and landslides.	2		Dt-30.10.23, 31.10.23
	UNIT 6 : SOCIAL ISSUES AND THE ENVIRONMENT	10	NOVEMBER	
6	Urban problems related to energy, Water conservation, rain water harvesting, water shed management.Resettlement and rehabilitation of people; its problems and concern.	3		Dt 01:11:23, 02:11:23, 06:11:23
	Environmental ethics: issue and possible solutions.	2		D1-07-11-23, 08-11-23, 09-11-23
	Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust, case studies.	2		D4.13.11.53, 14.11.53

SI. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	Air (prevention and control of pollution) Act, Water (prevention and control of pollution) Act.	2		Dt-15-11-23,16.11-23
	Public awareness	1		Dt-20-11-23
	UNIT 7: HUMAN POPULATION AND THE ENVIRONMENT	8		
7	Population growth and variation among nations, Population explosion-family welfare program.	3		D1-21-11-23,22-11-23,23-11-23
	Environment and human health.	1		Dt-28-11-23, 29-11-23, 30-11-23
•	Human rights.	1	DECEMBE	
	Value education.	. 1		77-05-12-23
	Role of information technology in environment and human health.	2		Dt-0612.23,07-12.23

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BRANG	CH:- MECHANICAL ENGG.	SEMESTE		ION . WAA
IAME NGG.	OF THE FACULTY : (1) ER. TARANISEN MOHANTY, (.), (3) ER. BISHNU CHARANA BEHERA (T.A., MECH.	H.O.D., MECH	OLOT	
	STER FROM DT. 01.08.2023 TO 09.12.2023	PR	ACTICAL SUBJECT: MECHANICAL	ENGG. DRAWING (PR-1)
	S ALLOTTED /WEEK :- 06 PERIODS			
SI. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
1	Revision of Engg. Drawing of 1st year.	AUGUST	06	Df. 04.08.23
2	Draw plan, elevation and side view of different machine element from their isometric view using AUTO CAD and mini drafter. (Minium 5 drawing)		0.6	D1-09-08-23
	Engineering drawing of fastening elements in first angle orthographic projection.			
3	3.1.Bolt ,nut and threads.		0.6	D4.16.08.23
	3.2.Cotter joint.		06	Dt. 53.06.53
	3.3.Knuckle joint.	SEPTEMBER	06	D+·13·09·23
	Details to assembly.			
	4.1.Rigid pedestal bearing.		0.6	D1.24.04.23
4	4.2.Foot step bearing.		06	Dd- 0410.53
	4.3.Simple screw jack.		06	74, 11, 10, 53

SI. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	COURSE	GRESS OF THE ES MADE TES
	Assembly to details.				
	5.1.Connecting rod of I.C. engine.		06	Dtr 18:10:23	.2210:23
5	5.2.Boiler safety valve.		06	Dd.01.11.23	
	5.3.Spring loaded valve.		06	D+ 115-11-2	
	5.4.Hydraulic non return valve.		06	Dt. 20.11.5	
	5.5.Flat belt pulley.	DECEMBER	06	Dt.06.12.2	

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P.C.I.E.T., CHHENDIPADA, DIST- ANGUL . 1 PRACTICAL LESSON PLAN FOR THE SESSION 2023 - 24 BRANCH:-MECHANICAL ENGG. **SEMESTER: 3RD** SECTION:- MA1 NAME OF THE FACULTY : (1) ER. DEWAN KUMAR SAHU (LECT. IN MECH. ENGG.) ,(2) ER. GOBINDA BARIK, (3) ER. PRADEEP KUMAR SAHOO, (T.A. MECH. ENGG.) SEMESTER FROM DT. 01.08.2023 TO 09.12.2023 PRACTICAL SUBJECT: MECHANICAL ENGINEERING LABORATORY-I (PR-2) **CLASS ALLOTTED /WEEK:- 04 PERIODS** SI. No. NAME OF THE PRACTICAL EXPERIMENT/JOBS TO MONTH AS PER ACADEMIC CALENDAR & **ACTUAL PROGRESS OF THE** BE COVERED TIME TABLE **COURSES MADE CLASS DAYS DATES** STRENGTH OF MATERIALS AND THERMAL AUGUST LABROTARY 12 TH. 02.08:23 D9:08:23 Determine end reactions in a simply supported beam using parallel force apparatus. 000 71-1608-23, 23.08-23 SEPTEMBER Determine of Young's modulus using searle's apparatus. OB D1113.09.23, 27.09.23

DECEMBER Determination of flash point and fire point. 62 Dr.06.12123 8 Joule's experiment. Oy Df. 02.08.23004.pg 23

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November

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Determination of torsional rigidity of the shaff using

Determination of salient points (Young's modulus .Yield point, fracture point) from stress-strain curve

Determination of hardness number by Rockwell or

Determination of toughness using Impact testing

torsion testing machine.

machine (charpy/izod)

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vickers hardness testing machine.

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D+ 104.10.23, 11.10.23

nt-18,10,23,01,11,23

Dt 08-11-23, 15-11-23

Df-22-11-23 29-11-23

P.C.I.E.T., CHHENDIPADA PRINCIPAL Purna Chandra Institute of Engineering & Technology CHHENDIPADA ANDU

P.C.I.E.T., CHHENDIPADA, DIST-ANGUL PRACTICAL LESSON PLAN FOR THE SESSION 2023 - 24 BRANCH:-MECHANICAL ENGG. **SEMESTER: 3RD SECTION:-**MA1 NAME OF THE FACULTY : (1) ER. GOURI SANKAR PRADHAN (LECT. IN MECH. ENGG.), (2) KRUSHNA CH. SAHU, (3) BHIMASEN ROUT (INSTRUCTOR) SEMESTER FROM DT. 01.08.2023 TO 09.12.2023 PRACTICAL SUBJECT: WORKSHOP PRACTICE-II (PR-3) **CLASS ALLOTTED /WEEK:- 06 PERIODS** SI. No. NAME OF THE PRACTICAL EXPERIMENT/JOBS TO MONTH AS PER ACADEMIC CALENDAR & **ACTUAL PROGRESS OF THE BE COVERED** TIME TABLE **COURSES MADE CLASS DAYS** DATES FITTING PRACTICES AVGUST 10.08.53 1.1.Preparation of caliper. 06 D1.03.08.23 04.08.23 1 D1-11.08.53 14-08.53 18.08.53 1.2. Preparation of try square. 06 1.3. Preparation of hammer, square, hexagonal. DJ.24.08.23,25.08.23 06 2408.23 SMITHY PRACTICES EPT. 2.1. Preparation of door ring with hook. 04 Dt.01.00.23.04.00.23.08.00.23 2 2.2. Preparation of hexagonal head bolt. 00 mf-14.09.23, 15.09.23, 21.09.23 2.3. Preparation of octagon flat chisel. D ª M. 22.0923 28.0923.05.10.23 CARPENTRY PRACTICES OCTOBER 3.1. Cutting slot, botch, mortise and tenon joint. 09 TA-05-10-23,0610-23, 12-10-23 3.2. Preparation of single dove tail joint. 09 Df.13.1023,19.10.23,20.10.23 WELDING PRACTICES MOVEMBER 4.1.Lap and Butt joint using dre welding. Df.02.11.23,03-11.23,04-11.23 0 9 4 4.2.Lap joint using gas welding. 09 Df.10.11.23,10.11.23, 16.11.23 4.3. Joining 2 non-ferrous parts through. 09 Df-17-11-23,237De3/24-11-23

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P.C.I.E.T., CHHENDIPADA, DIST-ANGUL . . PRACTICAL LESSON PLAN FOR THE SESSION 2023 - 24 BRANCH: MECHANICAL ENGG. **SEMESTER: 3RD SECTION:- MA1** NAME OF THE FACULTY : (1) ER. RASABIHARI SAHU, (2) ER. SATYANARAYAN MAJHI (LECT. IN MECH. ENGG.) SEMESTER FROM DT. 01.08.2023 TO 09.12.2023 PRACTICAL SUBJECT: STUDENT CENTRED ACTIVITIES **CLASS ALLOTTED /WEEK: - 03 PERIODS** AS PER ACADEMIC CALENDAR & **ACTUAL PROGRESS OF THE** NAME OF THE PRACTICAL EXPERIMENT/JOBS TO SI. No. MONTH TIME TABLE **COURSES MADE BE COVERED CLASS DAYS** DATES 03 Df-05-08:23 12-08:23 D1-02-09:23, 19:08:23 12 Seminar on diff. topics 03 D1.26.08.23 Dd. 09.09.23 16.09.23 SEPT. D1.23.09:23, 30.09:23 03 03 Df.04.11.53, 11.11.53 HOVEMPE 05 coefficial Activities. DI-18-11-23, 25-11-23 02

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CHHENDIPADA, ANGUL

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2 3			N FOR THE SESSION 2023 - 24	
BRANC	CH:- MECHANICAL ENGG.	SEMESTER	R: 3RD SECT	ION :- MA2
NAME ENGG.	OF THE FACULTY : (1) ER. TARANISEN MOHANTY, (), (3) ER. BISHNU CHARANA BEHERA (T.A., MECH.	H.O.D., MECH ENGG.)	I. ENGG.), (2) ER. BIKASH RANJAN	
SEMES	STER FROM DT. 01.08.2023 TO 09.12.2023	PR	ACTICAL SUBJECT: MECHANICAL	ENGG. DRAWING (PR-1)
The State of the S	ALLOTTED /WEEK :- 06 PERIODS			
SI. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
1	Revision of Engg. Drawing of 1st year.	a ugust	06	D1.02.08.23
	Draw plan, elevation and side view of different machine element from their isometric view using AUTO CAD and mini drafter. (Minium 5 drawing)		06	D4. 09.08.53
	Engineering drawing of fastening elements in first angle orthographic projection.		06	DA-16.08.23,23.08.23
3	3.1.Bolt ,nut and threads.	SEPT EMBES	06	Dd . Dr. 0d.53
	3.2.Cotter joint.		06	Dt. 13.09.23
	3.3.Knuckle joint.		0 6	Dt- 27. 09.23
	Details to assembly.			
	4.1.Rigid pedestal bearing.	OCTOBER	06	Df. 04.10.23,
4	4.2.Foot step bearing.		06	Dt.11.10.23
l	4.3.Simple screw jack.		06	27.18.10.53

SI. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED		AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
	Assembly to details.	November		
	5.1.Connecting rod of I.C. engine.		06	D4.01.11.53
5	5.2.Boiler safety valve.		06	D4.08.11.23, 15-11.53
	5.3.Spring loaded valve.	. •	06	D1-22-11-23
	5.4.Hydraulic non return valve.		0.6	Dd. 2011.23
	5.5.Flat belt pulley.		06	Df. 06.12.53

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P.C.I.E.T., CHHENDIPADA, DIST-ANGUL PRACTICAL LESSON PLAN FOR THE SESSION 2023 - 24 BRANCH:-MECHANICAL ENGG. **SEMESTER: 3RD** SECTION:- MA2 NAME OF THE FACULTY: (1) ER. DEWAN KUMAR SAHU (LECT. IN MECH. ENGG.), (2) ER. GOBINDA BARIK, (3) ER. PRADEEP KUMAR SAHOO, (T.A. MECH. ENGG.) SEMESTER FROM DT. 01.08.2023 TO 09.12.2023 PRACTICAL SUBJECT: MECHANICAL ENGINEERING LABORATORY-I (PR-2) **CLASS ALLOTTED /WEEK:- 04 PERIODS** SI. No. NAME OF THE PRACTICAL EXPERIMENT/JOBS TO MONTH AS PER ACADEMIC CALENDAR & **ACTUAL PROGRESS OF THE BE COVERED** TIME TABLE **COURSES MADE CLASS DAYS** DATES STRENGTH OF MATERIALS AND THERMAL AUGUST LABROTARY The 09 Determine end reactions in a simply supported beam using parallel foree apparatus. 08 Dt. 02.08.23,09.08.23 Determine of Young's modulus using searle's apparatus. D1-16.0 8.23, 23.08.23 08 EPT EMBER Determination of torsional rigidity of the shaff using torsion testing machine. Df. 12.09.23, 17.09.23 08 Determination of salient points (Young's modulus 4 OCTOBER Yield point, fracture point) from stress-strain curve 08 Dt-0410.23, 11.10.23 Determination of hardness number by Rockwell or vickers hardness testing machine. Dt. 18, 10,08, 1.11.23 OF Determination of toughness using Impact testing November 6 machine (charpy/izod) 08 74-08:11:23, 15-11:23 7 Determination of flash point and fire point. 00 D1-22-11-23, 29-11-23

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Joule's experiment.

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Dt. 06.12.23

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P.C.I.E.T., CHHENDIPADA, DIST- ANGUL PRACTICAL LESSON PLAN FOR THE SESSION 2023 - 24 **BRANCH:-MECHANICAL ENGG. SEMESTER: 3RD** SECTION:-MA2 NAME OF THE FACULTY : (1) ER. GOURI SANKAR PRADHAN (LECT. IN MECH. ENGG.), (2) KRUSHNA CH. SAHU, (3) BHIMASEN ROUT (INSTRUCTOR) SEMESTER FROM DT. 01.08.2023 TO 09.12.2023 PRACTICAL SUBJECT: WORKSHOP PRACTICE-II (PR-3) **CLASS ALLOTTED /WEEK:- 06 PERIODS** SI. No. NAME OF THE PRACTICAL EXPERIMENT/JOBS TO MONTH AS PER ACADEMIC CALENDAR & **ACTUAL PROGRESS OF THE BE COVERED** TIME TABLE **COURSES MADE CLASS DAYS DATES** FITTING PRACTICES 1.1. Preparation of caliper. AUGIUST 03.08.2023, 04.08.2023 06 1 Dt. 11.08.2023, 17.08.23, 1.2. Preparation of try square. 06 1.3. Preparation of hammer, square, hexagonal. Dr. 24.08.23, 25.08.23, 06 SMITHY PRACTICES SEPT. D+ · 01 · 69 · 20 23, 07 · 09 · 23 2.1. Preparation of door ring with hook. 09 2 D+ 14.69.23, 15.09.23, 21.09.23 2.2. Preparation of hexagonal head bolt. 09 Dt- 22.09.23, 28.09.23,05.10.23 2.3. Preparation of octagon flat chisel . 09 CARPENTRY PRACTICES OCTOBER D+. 05.10.23, UT.10.23 12.10.23 3.1. Cutting slot, botch, mortise and tenon joint. 09 124.13.10.23,19.10.23,20.10.23 3.2.Preparation of single dove tail joint. 00 WELDING PRACTICES NOVEMBER Dt. 02.11.23, 03.11.23,09.11.23 4.1.Lap and Butt joint using dre welding. 09 Dr. 10:11:23, 10:11:23, 16:11:23 4.2.Lap joint using gas welding. 09 D+.17-11-23, 2311-23124-11-23 4.3. Joining 2 non-ferrous parts through.

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P.C.I.E.T., CHHENDIPADA, DIST-ANGUL PRACTICAL LESSON PLAN FOR THE SESSION 2023 - 24 4 - 4 BRANCH:- MECHANICAL ENGG. SEMESTER: 3RD SECTION:- MA2 NAME OF THE FACULTY : (1) ER. RASABIHARI SAHU, (2) ER. SATYANARAYAN MAJHI (LECT. IN MECH. ENGG.) SEMESTER FROM DT. 01.08.2023 TO 09.12.2023 PRACTICAL SUBJECT: STUDENT CENTRED ACTIVITIES CLASS ALLOTTED /WEEK :- 03 PERIODS AS PER ACADEMIC CALENDAR & **ACTUAL PROGRESS OF THE** NAME OF THE PRACTICAL EXPERIMENT/JOBS TO SI. No. MONTH TIME TABLE **COURSES MADE BE COVERED CLASS DAYS DATES** 01 Personality development class AUGUST 03 M· 05.08, 23, 12.08,23 DA. 02.09.23 09.09.23 02 Seminar on diff. topics Df-19'08'23, 26.08'23 03 Df-0909.23, 16.09.23 03 D+2309'23, 30009'23 03 OCTOBER 40 Dtot 10.23, 14.10.23 60 123 11.11.23 November 05 D4-18-11-23, 25-11-23 Culdural Activities 03 PRINCIPAL

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1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PRACTICAL	LESSON PLA	N FOR THE SESSION 2023 - 24	
BRANG	CH:- MECHANICAL ENGG.	SEMESTE	R: 3RD SECTI	ON:- MB1
ыэпи	OF THE FACULTY : (1) ER. TARANISEN MOHANTY (I IU CHARANA BEHERA (T.A., MECH. ENGG.)	H.O.D. MECH	I. ENGG.), (2) ER. BIKASH RANJAN SA	AHU (LECT. IN MECH. ENGG.), (3) ER.
	STER FROM DT. 01.08.2023 TO 09.12.2023	PRAC	TICAL SUBJECT: MECHANICAL EN	GG. DRAWING (PR-1)
	S ALLOTTED /WEEK :- 06 PERIODS			
SI. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
1	Revision of Engg. Drawing of 1st year.	AUGUST	18	Dd.03.08.23,10.08.23
2	Draw plan, elevation and side view of different machine element from their isometric view using AUTO CAD and mini drafter. (Minium 5 drawing)		18	DA-17-08-23, 24-08-23
	Engineering drawing of fastening elements in first angle orthographic projection.		3, "	
3	3.1.Bolt ,nut and threads.		06	Dd.31.08.23
	3.2.Cotter joint.	SEPTEMAR	06	Dt.07.09.23
	3.3.Knuckle joint.		9.6	DA. 14.09.23
	Details to assembly.			D4.
	4.1.Rigid pedestal bearing.		03	DA-21.09.23
4	4.2.Foot step bearing.		03	D1.28.09.23
	4.3.Simple screw jack.	OCTOBER	0.3	Df-05-10-23, 12-10-23

SI. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
	Assembly to details.			
	5.1.Connecting rod of I.C. engine.		03	Dt-19-10-23
5	5.2.Boiler safety valve.	NOVEMBER	0.3	Df-02-11-23
	5.3.Spring loaded valve.		0.6	pt.09.11.23,16.11.23
	5.4.Hydraulic non return valve.		06	Df.23.11.23, 20.11.23
	5.5.Flat belt pulley.	DECEMBER	06	Dd.07.12.23

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

PRACTICAL LESSON PLAN FOR THE SESSION 2023 - 24

BRANCH:-MECHANICAL ENGG.

SEMESTER: 3RD

SECTION:- MB1

NAME OF THE FACULTY: (1) ER. DEWAN KUMAR SAHU (LECT. IN MECH. ENGG.), (2) ER. GOBINDA BARIK, (3) ER. PRADEEP KUMAR SAHU (T.A., MECH. ENGG.)

SEMESTER FROM DT. 01.08.2023 TO 09.12.2023

PRACTICAL SUBJECT: MECHANICAL ENGINEERING LABORATORY-I (PR-2)

CLASS ALLOTTED /WEEK:- 04 PERIODS

SI. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO	MONTH	AS PER ACADEMIC CALENDAR &	ACTUAL PROGRESS OF THE
	BE COVERED		TIME TABLE	COURSES MADE
			CLASS DAYS	DATES
	STRENGTH OF MATERIALS AND THERMAL LABROTARY		0 K	5,1126
1	Determine end reactions in a simply supported beam using parallel foree apparatus.	AVGUST	OS	71.02.0%.22 10.0%.22
2	Determine of Young's modulus using searle's apparatus.		08	Df.14.08.53 54.08.53 31.08.
3	Determination of torsional rigidity of the shaff using torsion testing machine.	SEPTEMBER	08	Dt-07-09-23, 14-09-23
4	Determination of salient points (Young's modulus ,Yield point,fracture point) from stress-strain curve		Og	Dt. 2400.53 '56.00.53
5	Determination of hardness number by Rockwell or vickers hardness testing machine.	OCTOBER		Df·12·10·23, 19·10·23
6		NOVEMBER		Df. 02.11.23, 09.11.23
7	Cetermination of flash point and fire point.		0%	
8	Joule's experiment.	DECEMBER	OU	Df-16-11-23, 23-11-23

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P.C.I.E.T., CHHENDIPADA, DIST-ANGUL PRACTICAL LESSON PLAN FOR THE SESSION 2023 - 24 BRANCH:-MECHANICAL ENGG. **SEMESTER: 3RD** SECTION:-MB1 NAME OF THE FACULTY : (1) ER. GOURI SANKAR PRADHAN, (LECT. IN MECH. ENGG.), (2) BHIMASEN ROUT, (3) KRUSHNA CH. SAHU (INSTRUCTOR) SEMESTER FROM DT. 01.08.2023 TO 09.12.2023 PRACTICAL SUBJECT: WORKSHOP PRACTICE-II (PR-3) **CLASS ALLOTTED /WEEK:- 06 PERIODS** SI. No. NAME OF THE PRACTICAL EXPERIMENT/JOBS TO MONTH AS PER ACADEMIC CALENDAR & **ACTUAL PROGRESS OF THE BE COVERED** TIME TABLE **COURSES MADE CLASS DAYS DATES** FITTING PRACTICES 1.1.Preparation of caliper. AVA UST 01.01.08.03.05.08.53.08.08.53 1.2. Preparation of try square. 06 124.00.08.23 16.08.23 25.08.23 1.3. Preparation of hammer, square, hexagonal. 06 D1.23.08.23 29.08.23 .0 5.9.23 **SMITHY PRACTICES** SEPT. 2.1.Preparation of door ring with hook. 09 DA-12.09.23,12.09.23, 26.09.23 2 2.2. Preparation of hexagonal head bolt. DA-27-09.23,03.10.23,04.10.23 00 OCTOBER 2.3. Preparation of octagon flat chisel. 09 DA-10-10-23,11-10-23,17-10-23 CARPENTRY PRACTICES 3.1. Cutting slot, botch, mortise and tenon joint. 09 Df-18.10.23, 21.10.23, 01.11.23 3.2.Preparation of single dove tail joint. 09 DF07-11-23,08-11-23,14-11-23 NOVEMBER WELDING PRACTICES 4.1.Lap and Butt joint using dre welding. 09 13.15.11.23.21.11.23.22.11.23 4 4.2.Lap joint using gas welding. 09 Di-28-11-22.20-11-23 DECEMBER 4.3. Joining 2 non-ferrous parts through. 09 Dt. 05.12.23 96/2.23 Mooder SIGNATURE OF THE CONCERNED FACULTY

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-	CH:- MECHANICAL ENGG.		N FOR THE SESSION 2023 - 24	
		SEMESTER	313 1.	
BISHN	OF THE FACULTY : (1) ER. TARANISEN MOHANTY (I U CHARANA BEHERA (T.A., MECH. ENGG.)	H.O.D. MECH	. ENGG.), (2) ER. BIKASH RANJAN SA	HU (LECT. IN MECH. ENGG.), (3) ER.
SEMES	STER FROM DT. 01.08.2023 TO 09.12.2023	PRACT	TICAL SUBJECT: MECHANICAL EN	GG. DRAWING (PR-1)
	ALLOTTED /WEEK :- 06 PERIODS			
SI. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
1	Revision of Engg. Drawing of 1st year.	AVGUST	18	Dd · 12.08.23, 24.08.23
2	Description of the state of the	SEPTEMBER		M. 1404.53 51.04.53
٠	Engineering drawing of fastening elements in first angle orthographic projection.			
3	3.1.Bolt ,nut and threads.	OCTOBER	0.6	Dt. 28.09.23
	3.2.Cotter joint.		06	D1.05-10.23
	3.3.Knuckle joint.		06	Df·12·10·23
	Details to assembly.			D4.
	4.1.Rigid pedestal bearing.		03	Dt. 19.10.23
4	4.2.Foot step bearing.	NOVEMBER	03	D4.02.11.23
	4.3.Simple screw jack.		0.3	Dd-09-11-23

SI. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
	Assembly to details.			
	5.1.Connecting rod of I.C. engine.		03	DA. 1611:23
5	5.2.Boiler safety valve.		03	D1.23.11.23
	5.3.Spring loaded valve.			D4.30-11.23
	5.4.Hydraulic non return valve.	PECEMBER		Dt. 06.12.23
	5.5.Flat belt pulley.		06	Dt. 07.12.23

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

PRACTICAL LESSON PLAN FOR THE SESSION 2023 - 24

BRANCH:-MECHANICAL ENGG.

SEMESTER: 3RD

SECTION:- MB2

NAME OF THE FACULTY: (1) ER. DEWAN KUMAR SAHU (LECT. IN MECH. ENGG.), (2) ER. GOBINDA BARIK, (3) ER. PRADEEP KUMAR SAHU (T.A., MECH. ENGG.)

SEMESTER FROM DT. 01.08.2023 TO 09.12.2023

PRACTICAL SUBJECT: MECHANICAL ENGINEERING LABORATORY-I (PR-2)

SI. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO	MONTH	AS PER ACADEMIC CALENDAR &	ACTUAL PROCEEDS OF THE
	BE COVERED	WONTH		ACTUAL PROGRESS OF THE
	DE COVERED		TIME TABLE	COURSES MADE
			CLASS DAYS	DATES
	STRENGTH OF MATERIALS AND THERMAL LABROTARY	AUGUST	08	
1	Determine end reactions in a simply supported beam using parallel foree apparatus.		08	
2	Determine of Young's modulus using searle's apparatus.		08	D4.03.08.23 10.08.23
3	Determination of torsional rigidity of the shaff using torsion testing machine.	SEPTEMBER	0g	D+07.09.23 14.09.23
4	Netermination of salient points (Young's modulus ,Yield point,fracture point) from stress-strain curve		08	Dt. 21.00.53 28.00.53
5	Determination of hardness number by Rockwell or vickers hardness testing machine.	OCTOBER		DI-12-10-23 19-10-23
6	Determination of toughness using Impact testing machine (charpy/izod)	NOVEMBER		D1.02.11.23 00.11.53
7	Determination of flash point and fire point.		0%	Dt. 16.11.23, 22.11.23
8	Joule's experiment.	DECEMBER	- OY	74.30.11.39 04.13.33

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P.C.I.E.T., CHHENDIPADA, DIST-ANGUL PRACTICAL LESSON PLAN FOR THE SESSION 2023 - 24 BRANCH:-MECHANICAL ENGG. **SEMESTER: 3RD SECTION:-**MB₂ NAME OF THE FACULTY : (1) ER. GOURI SANKAR PRADHAN, (LECT. IN MECH. ENGG.), (2) BHIMASEN ROUT, (3) KRUSHNA CH. SAHU (INSTRUCTOR) SEMESTER FROM DT. 01.08.2023 TO 09.12.2023 PRACTICAL SUBJECT: WORKSHOP PRACTICE-II (PR-3) **CLASS ALLOTTED /WEEK:- 06 PERIODS** SI. No. NAME OF THE PRACTICAL EXPERIMENT/JOBS TO MONTH AS PER ACADEMIC CALENDAR & **ACTUAL PROGRESS OF THE BE COVERED TIME TABLE COURSES MADE CLASS DAYS DATES** FITTING PRACTICES 1.1.Preparation of caliper. AUGUST 06 DI-01:0823, 02:08:23, 08:08:23 1 1.2. Preparation of try square. 06 Di-00.08.23 16.08.23, 22.08.23 1.3.Preparation of hammer, square, hexagonal. 06 14.23.04.23 24.04.2 2.05.09.2 SMITHY PRACTICES 2.1. Preparation of door ring with hook. SEPT. 00 D1-12-09-23, 13-09-23, 26-09-28 2 2.2.Preparation of hexagonal head bolt. 09 174.27.00.23.03.10.23.04.10.23 OCTOBER 2.3.Preparation of octagon flat chisel . 00 17-10-10-23, 11-10-23, 17-10-23 CARPENTRY PRACTICES 3.1. Cutting slot, botch, mortise and tenon joint. 09 N-18-10-23, 31-0-25, 01-11-29 HOVEMBER 3.2. Preparation of single dove tail joint. 09 23. 04.11.23. 08.11.23. 14.11.23 WELDING PRACTICES 4.1.Lap and Butt joint using dre welding. 09 1-15-11-23, 21-11-23, 22-11-23 4 4.2.Lap joint using gas welding. 00 D1-28-11-29, 29-11-23 DECEMBER 4.3. Joining 2 non-ferrous parts through. 00 Dt. 05-12-23/16-12-23

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P.C.I.E.T., CHHENDIPADA, DIST- ANGUL PRACTICAL LESSON PLAN FOR THE SESSION 2023 - 24 BRANCH:- MECHANICAL ENGG. **SEMESTER: 3RD SECTION:- MB2** NAME OF THE FACULTY : (1) ER. MANAS RANJAN BEHERA, (2) ER. SUBHASMITA JENA (LECT. IN MECH. ENGG.) SEMESTER FROM DT. 01.08.2023 TO 09.12.2023 PRACTICAL SUBJECT: STUDENT CENTRED ACTIVITIES AS PER ACADEMIC CALENDAR & NAME OF THE PRACTICAL EXPERIMENT/JOBS TO **ACTUAL PROGRESS OF THE** SI. No. MONTH TIME TABLE **BE COVERED** COURSES MADE **CLASS DAYS DATES** AVAUST o) personality development class 03 B-05-08:23, 12.08.23 D1-02-09.23, 19.08:23 or Seminar on diff. topics 03 Dt. 26.08.23 D1.09.09:23, 16.09.23 Dt. 23.09.23, 30.09.23 03 OCTOBER 03 Dt-07-10:23, 14.10:23 Dt. 04.91.23, 11.11.23 YOU EMBER 05 Cultural Activities 02 11.18:11:23, 25-11:23

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