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THEORY LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MECHANICAL ENGINEERING SEMESTER: 5TH SECTION:- MA	NAME OF THE FACULTY : (1) ANUPAMA BEHERA (LECT. IN MGMT.)
SEMESTER FROM : 15.09.2022 to 21.01.2023	THEORY SUBJECT: ENTERPRENEURSHIP AND MANAGEMENT & SMART TECHNOLOGY (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	**Entrepreneurship**	**10**		
	Concept /Meaning of Entrepreneurship and Need of Entrepreneurship	1	September	Dt. 15.09.2022
	Characteristics, Qualities and Types of entrepreneur, Functions	1		Dt. 16.09.2022
	Barriers in entrepreneurship	1		Dt. 19.09.2022
	Entrepreneurs vrs. Manager	1		Dt. 20.09.2022
	Forms of Business Ownership: Sole proprietorship, partnership forms and others	1		Dt. 21.09.2022 , 22.09.2022
	Types of Industries, Concept of Start-ups	1		Dt. 23.09.2022 , 26.09.2022 , 27.09.2022
	Entrepreneurial support agencies at National, State, District Level(Sources): DIC, NSIC,OSIC, SIDBI, NABARD, Commercial Banks, KVIC etc.	2		Dt. 28.09.22 , 29.09.2022 , 30.09.2022
	Technology Business Incubators (TBI) and Science and Technology Entrepreneur Parks	2	October	Dt. 10.10.2022 , 11.10.2022 , 12.10.2022
2	**Market Survey and Opportunity Identification (Business Planning)**	**8**		Dt.
	Business Planning	2		Dt. 13.10.2022 , 14.10.2022
	SSI, Ancillary Units, Tiny Units, Service sector Units	1		Dt. 17.10.2022 , 18.10.2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	Time schedule Plan, Agencies to be contacted for Project Implementation	1	October	Dt. 19.10.2022 , 20.10.2022
	Assessment of Demand and supply and Potential areas of Growth	1		Dt. 21.10.2022
	Assessment of Demand and supply and Potential areas of Growth	1		Dt. 25.10.2022
	Identifying Business Opportunity	1		Dt. 26.10.2022
	Final Product selection	1		Dt. 27.10.2022 , 28.10.2022
3	**Project Report Preparation**	**4**		
	Preliminary project report	1		Dt. 31.10.2022
	Detailed project report, Techno economic Feasibility	2	November	Dt. 01.11.2022 , 2.11.2022 , 03.11.2022
	Project Viability	1		Dt. 04.11.2022 ,
4	**Management Principles**	**5**		
	Definitions of management and Principles of management	1		Dt. 07.11.2022 , 09.11.2022
	Functions of management (planning, organising, staffing, directing and controlling etc.)	2		Dt. 10.11.2022 , 11.11.2022
	Level of Management in an Organisation	2		Dt. 14.11.2022 , 15.11.2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
5	**Functional Areas of Management**	**10**		
	a) Production management: Functions, Activities, Productivity, Quality control, Production Planning and control	2	November	Dt. 16.11.2022 , 17.11.2022, 18.11.2022
	b) Inventory Management: Need for Inventory management, Models/Techniques of Inventory management	1		Dt. 21.11.2022
	c) Financial Management: Functions of Financial management, Management of Working capital, Costing (only concept), Break even Analysis, Brief idea about Accounting Terminologies: Book Keeping, Journal entry, Petty Cash book, P&L Accounts, Balance Sheets(only Concepts)	3		Dt. 22.11.2022 , 23.11.2022 ,24.11.2022 25.11.2022.
	d)Marketing Management: Concept of Marketing and Marketing Management, Marketing Techniques (only concepts), Concept of 4P s (Price, Place, Product, Promotion)	2		Dt. 28.11.2022, 29.11.2022
	e) Human Resource Management: Functions of Personnel Management,Manpower Planning, Recruitment, Sources of manpower, Selection process, Method of Testing, Methods of Training & Development, Payment of Wages	2		Dt. 30.11.2022 , 01.12.2022
6	**Leadership and Motivation**	**6**		
	a) Leadership: Definition and Need/Importance, Qualities and functions of a leader, Manager Vs Leader, Style of Leadership (Autocratic, Democratic, Participative)	2	December	Dt. 02.12.2022 , 05.12.2022.

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	b) Motivation: Definition and characteristics, Importance of motivation, Factors affecting motivation, Theories of motivation (Maslow), Methods of Improving Motivation, Importance of Communication in Business, Types and Barriers of Communication	4	December	Dt. 06.12.2022 , 07.12.2022 08.12.2022 , 09.12.2022
7	**Work Culture, TQM & Safety**	5		
	Human relationship and Performance in Organization	1		Dt. 12.12.2022
	Relations with Peers, Superiors and Subordinates	1		Dt. 13.12.2022
	TQM concepts: Quality Policy, Quality Management, Quality system	2		Dt. 14.12.2022 , 15.12.2022, 16.12.2022
	Accidents and Safety, Cause, preventive measures, General Safety Rules , Personal Protection Equipment(PPE)	1		Dt. 19.12.2022 , 20.12.2022
8	**Legislation**	6		
	Intellectual Property Rights(IPR), Patents, Trademarks, Copyrights	2		Dt. 21.12.2022 , 22.12.2022 , 23.12.2022
	Features of Factories Act 1948 with Amendment (only salient points)	2	January	Dt. 02.01.2023 , 03.01.2023, 04.01.2023
	Features of Payment of Wages Act 1936 (only salient points)	2		Dt. 05.01.2023 , 06.01.2023 , 9.01.2023

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
9	**Smart Technology**	6		
	Concept of IOT, How IOT works	1		Dt. 10.01.2023 , 11.01.2023
	Components of IOT, Characteristics of IOT, Categories of IOT	2		Dt. 12.01.2023 , 13.01.2023 , 16.01.2023
	Applications of IOT- Smart Cities, Smart Transportation, Smart Home, Smart Healthcare, Smart Industry, Smart Agriculture, Smart Energy Management etc.	3		Dt. 17.01.2023 , 18.01.2023 , 19.01.2023 , 20.01.2023

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THEORY LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MECHANICAL ENGINEERING SEMESTER: 5TH SECTION: MA	NAME OF THE FACULTY : (1) ER. TARANISEN MOHANTY (H.O.D. IN MECH. ENGG.), (2) ER. LAKIN KUMAR SAHOO (LECT. IN MECH. ENGG.)
SEMESTER FROM : 15.09.2022 to 21.01.2023	THEORY SUBJECT: DESIGN OF MACHINE ELEMENTS (TH-2)
CLASS ALLOTTED /WEEK : 04 PERIODS	

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
1	**INTRODUCTION**	**12**		
	Introduction to Machine Design and Classify it.	1	September	Dt. 15.09.2022
	Different mechanical engineering materials used in design with their uses and their mechanical and physical properties.	2		Dt. 19.09.2022 , 20.09.2022
	Define working stress, yield stress, ultimate stress & factor of safety and stress –strain curve for M.S & C.I.	3		Dt. 21.09.2022 , 22.09.2022 , 26.09.2022
	Modes of Failure (By elastic deflection, general yielding & fracture)	2		Dt. 27.09.2022 , 28.09.2022
	State the factors governing the design of machine elements.	2		Dt. 29.09.2022 , 10.10.2022
	Describe design procedure.	2	October	Dt. 11.10.2022 , 12.10.2022
2	**DESIGN OF FASTENING ELEMENTS**	**12**		
	Joints and their classification.	2		Dt. 13.10.2022 , 17.10.2022
	State types of welded joints and State advantages of welded joints over other joints.	2		Dt. 18.10.2022 , 19.10.2022
	State types of riveted joints and types of rivets, Describe failure of riveted joints.	2		Dt. 20.10.2022 , 26.10.2022
	Determine strength & efficiency of riveted joints.	2		Dt. 27.10.2022 , 31.10.2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	Design riveted joints for pressure vessel.	2	November	Dt. 01.11.2022 , 02.11.2022
	Solve numerical on Welded Joint and Riveted Joints.	2		Dt. 03.11.2022 , 07.11.2022
3	**DESIGN OF SHAFTS AND KEYS**	**12**		
	State function of shafts, State materials for shafts	2		Dt. 09.11.2022 , 10.11.2022
	Design solid & hollow shafts to transmit a given power at given rpm based on a) Strength: (i) Shear stress, (ii) Combined bending tension; b) Rigidity: (i) Angle of twist, (ii) Deflection, (iii) Modulus of rigidity	2		Dt. 14.11.2022 , 15.11.2022
	State standard size of shaft as per I.S.	1		Dt. 16.11.2022
	State function of keys, types of keys & material of keys, Describe failure of key, effect of key way.	1		Dt. 17.11.2022
	Design rectangular sunk key considering its failure against shear & crushing	2		Dt. 21.11.2022 , 22.11.2022
	Design rectangular sunk key by using empirical relation for given diameter of shaft.	2		Dt. 23.11.2022 , 24.11.2022
	State specification of parallel key, gib-head key, taper key as per I.S.	2	December	Dt. 01.12.2022 , 02.12.2022
4	**DESIGN OF COUPLING**	**12**		
	Design of Shaft Coupling, Requirements of a good shaft coupling	3		Dt. 05.12.2022 , 07.12.2022 08.12.2022
	Types of Coupling	1		Dt. 09.12.2022
	Design of Sleeve or Muff-Coupling.	3		Dt. 12.12.2022 , 14.12.2022 , 15.12.2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	Design of Clamp or Compression Coupling.	3	December	Dt. 16.12.2022 , 19.12.2022 , 21.12.2022
	Solve simple numerical on above	2		Dt. 22.12.2022 , 23.12.2022
5	**DESIGN A CLOSED COIL HELICAL SPRING**	**12**		
	Materials used for helical spring.	1	January	Dt 02.01.2023
	Standard size spring wire. (SWG).	2		Dt. 04.01.2023 , 05.01.2023
	Terms used in compression spring.	1		Dt. 06.01.2023
	Stress in helical spring of a circular wire.	2		Dt. 09.01.2023 , 11.01.2023
	Deflection of helical spring of circular wire.	2		Dt. 12.01.2023 , 13.01.2023
	Surge in spring	2		Dt. 16.01.2023 , 18.01.2023
	Solve numerical on design of closed coil helical compression spring.	2		Dt. 19.01.2023 , 20.01.2023

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THEORY LESSON PLAN FOR THE SESSION 2022 - 23				
BRANCH:-MECHANICAL ENGINEERING SEMESTER: 5TH SECTION: MA			NAME OF THE FACULTY : (1) ER. SUBHASMITA JENA, (2) ER. MANAS RANJAN BEHERA (LECT. IN MECH. ENGG.)	
SEMESTER FROM : 15.09.2022 to 21.01.2023 THEORY SUBJECT: HYDRAULIC MACHINES & INDUSTRIAL FLUID POWER (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	**HYDRAULIC TURBINES**	10		
	Definition and classification of hydraulic turbines	1	September	Dt. 15.09.2022
	Construction and working principle of impulse turbine.	1		Dt. 16.09.2022
	Velocity diagram of moving blades, work done and derivation of various efficiencies of impulse turbine.	1		Dt. 19.09.2022
	Velocity diagram of moving blades, work done and derivation of various efficiencies of Francis turbine.	2		Dt. 21.09.2022 , 22.09.2022
	Velocity diagram of moving blades, work done and derivation of various efficiencies of Francis turbine.	2		Dt. 23.09.2022 , 26.09.2022
	Numerical on above	2		Dt. 28.09.2022 , 29.09.2022
	Distinguish between impulse turbine and reaction turbine.	1		Dt. 30.09.2022
2	**CENTRIFUGAL PUMPS**	5		
	Construction and working principle of centrifugal pumps	1	October	Dt. 10.10.2022
	work done and derivation of various efficiencies of centrifugal pumps.	2		Dt. 12.10.2022 , 13.10.2022
	Numerical on above	2		Dt. 14.10.2022 , 17.10.2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
3	**RECIPROCATING PUMPS**	**10**		
	Describe construction & working of single acting reciprocating pump.	2	October	Dt.19.10.2022 , 20.10.2022
	Describe construction & working of double acting reciprocating pump.	2		Dt.21.10.2022 , 26.10.2022
	Derive the formula foe power required to drive the pump (Single acting & double acting)	3		Dt. 27.10.2022 , 28.10.2022, 31.10.2022
	Define slip,State positive & negative slip & establish relation between slip & coefficient of discharge.	1	November	Dt. 02.11.2022
	Solve numerical on above	2		Dt.03.11.2022 , 04.11.2022
4	**PNEUMATIC CONTROL SYSTEM**	**15**		
	Elements –filter-regulator-lubrication unit	2		Dt.07.11.2022 , 09.11.2022
	Pressure control valves: Pressure relief valves, Pressure regulation valves	3		Dt.10.11.2022 , 11.11.2022 , 14.11.2022
	Direction control valves:3/2DCV, 5/2 DCV,5/3DCV ,Flow control valves, Throttle valves	3		Dt. 16.11.2022 , 17.11.2022 , 18.11.2022
	ISO Symbols for hydraulic components.	2		Dt.21.11.2022 , 23.11.2022
	Pneumatic circuits: Direct control of single acting cylinder, Operation of double acting cylinder, Operation of double acting cylinder with metering in and metering out control	5		Dt.24.11.2022 , 25.11.2022 , 28.11.2022 30.11.2022 , 01.12.2022
5	**HYDRAULIC CONTROL SYSTEM**	**20**		
	Hydraulic system, its merit and demerits	1	December	Dt.02.12.2022
	Hydraulic accumulators, Pressure control valves, Pressure relief valves, Pressure regulation valves	3		Dt.05.12.2022 , 07.12.2022 08.12.2022
	Direction control valves: 3/2DCV,5/2 DCV,5/3DCV,Flow control valves, Throttle valves	3		Dt.09.12.2022 , 12.12.2022 , 14.12.2022
	Fluid power pumps: External and internal gear pumps,Vane pump,Radial piston pumps	3		Dt.15.12.2022 , 16.12.2022 , 19.12.2022 21.12.2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	ISO Symbols for hydraulic components.	2	December	Dt. 22.12.2022 , 23.12.2022 , 02.01.2023
	Actuators	3	January	Dt. 04.01.2023 , 05.01.2023 , 06.01.2023
	Hydraulic circuits: Direct control of single acting cylinder, Operation of double acting cylinder, Operation of double acting cylinder with metering in and metering out control	3		Dt. 09.01.2023 , 11.01.2023 , 12.01.2023 13.01.2023 , 16.01.2023
	Comparison of hydraulic and pneumatic system	2		Dt. 18.01.2023 , 19.01.2023, 20.01.2023

Subhasmita Jena.

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THEORY LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MECHANICAL ENGINEERING SEMESTER: 5TH SECTION: MA	NAME OF THE FACULTY : (1) ER. DEWAN KUMAR SAHU, (2) ER. RASABIHARI SAHU (LECT. IN MECH. ENGG.)
SEMESTER FROM : 15.09.2022 to 21.01.2023	THEORY SUBJECT: MECHATRONICS (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	**INTRODUCTION TO MECHATRONICS**	**5**		
	Definition of Mechatronics:Advantages & disadvantages of Mechatronics, Application of Mechatronics	2	September.	Dt. 16.09.2022 , 19.09.2022
	Scope of Mechatronics in Industrial Sector	1		Dt. 20.09.2022
	Components of a Mechatronics System	1		Dt. 21.09.2022
	Importance of mechatronics in automation	1		Dt. 23.09.2022
2	**SENSORS AND TRANSDUCERS**	**10**		
	Defination of Transducers, Classification of Transducers	1		Dt. 26.09.2022
	Electromechanical Transducers	2		Dt. 27.09.2022 , 28.09.2022
	Transducers Actuating Mechanisms	2		Dt. 30.09.2022 , 10.10.2022
	Displacement & Positions Sensors	2	October	Dt. 11.10.2022 , 12.10.2022
	Velocity, motion, force and pressure sensors.	2		Dt. 14.10.2022 , 17.10.2022
	Temperature and light sensors.	1		Dt. 18.10.2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
3	**ACTUATORS-MECHANICAL, ELECTRICAL**	**10**	October	
	Mechanical Actuators: Machine, Kinematic Link, Kinematic Pair Mechanism, Slider crank Mechanism, Gear Drive, Spur gear, Bevel gear, Helical gear, worm gear, Belt & Belt drive, Bearings	6		Dt. 19.10.2022 , 21.10.2022 25.10.2022 , 26.10.2022 28.10.2022 , 01.11.2022
	Electrical Actuator: **a)**Switches and relaySolenoid **b)** D.C Motors **c)** A.C Motors **d)**Stepper Motors **e)**Specification and control of stepper motors **f)**Servo Motors D.C & A.C	4		Dt. 02.11.2022 , 04.11.2022 07.11.2022 , 09.11.2022
4	**PROGRAMMABLE LOGIC CONTROLLERS(PLC)**	**15**		
	Introduction, Advantages of PLC	2		Dt. 11.11.2022 , 14.11.2022
	Selection and uses of PLC	2		Dt. 15.11.2022 , 16.11.2022
	Architecture basic internal structures	3		Dt. 18.11.2022 , 21.11.2022 , 22.11.2022
	Input/output Processing and Programming	3		Dt. 23.11.2022 , 25.11.2022 , 28.11.2022
	Mnemonics	2		Dt. 29.11.2022 , 30.11.2022
	Master and Jump Controllers	3	December	Dt. 02.12.2022 , 05.12.2022 . 06.12.2022 07.12.2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
5	**ELEMENTS OF CNC MACHINES**	**15**	December	
	Introduction to Numerical Control of machines and CAD/CAM: NC machines, CNC machines, CAD/CAM, CAD,CAM, Software and hardware for CAD/CAM,Functioning of CAD/CAM system, Features and characteristics of CAD/CAM system,Application areas for CAD/CAM	8		Dt. 09.12.2022 , 12.12.2022, 13.12.2022 14.12.2022 , 16.12.2022, 19.12.2022 20.12.2022 , 21.12.2022 , 23.12.2022
	elements of CNC machines: Introduction , Machine Structure ,Guideways/Slide ways, Introduction and Types of Guideways ,Factors of design of guideways, Drives,Spindle drives ,Feed drive 5.2.5 Spindle and Spindle Bearings	7	January	Dt. 02.01.2023 , 03.01.2023, 04.01.2023 , 06.01.2023 , 09.01.2023 10.01.2023 , 11.01.2023
6	**ROBOTICS**	**5**		
	Definition, Function and laws of robotics	1		Dt. 13.01.2023
	Types of industrial robots	1		Dt. 16.01.2023
	Robotic systems	2		Dt. 17.01.2023 , 18.01.2023
	Advantages and Disadvantages of robots	1		Dt. 20.01.2023

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BRANCH:-MECHANICAL ENGINEERING SEMESTER: 5TH SECTION: MA			NAME OF THE FACULTY : (1) ER. SATYANARAYAN MAJHI, (2) ER. KEDARA KUMAR PRADHAN (LECT. IN MECH. ENGG.)	
SEMESTER FROM : 15.09.2022 to 21.01.2023		THEORY SUBJECT: REFRIGERATION AND AIR CONDITIONING (TH-5)		
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	**AIR REFRIGERATION CYCLE**	**5**		
	Definition of refrigeration and unit of refrigeration	1	September.	Dt. 16.09.2022
	Definition of COP, Refrigerating effect (R.E)	2		Dt. 19.09.2022 , 20.09.2022
	Principle of working of open and closed air system of refrigeration. 1.3.1 Calculation of COP of Bell-Coleman cycle and numerical on it	2		Dt. 21.09.2022 , 23.09.2022
2	**SIMPLE VAPOUR COMPRESSION REFRIGERATION SYSTEM**	**10**		
	schematic diagram of simple vapors compression refrigeration system, Types	1		Dt. 26.09.2022 , 27.09.2022
	Cycle with dry saturated vapors after compression.	1		Dt. 28.09.2022
	Cycle with wet vapors after compression	1		Dt. 30.09.2022
	Cycle with superheated vapors after compression	1	October	Dt. 10.10.2022
	Cycle with superheated vapors before compression.	1		Dt. 11.10.2022
	Cycle with sub cooling of refrigerant	1		Dt. 12.10.2022
	Representation of above cycle on temperature entropy and pressure enthalpy diagram	2		Dt. 14.10.2022 , 17.10.2022
	Numerical on above (determination of COP,mass flow)	2		Dt. 18.10.2022 , 19.10.2022
3	**VAPOUR ABSORPTION REFRIGERATION SYSTEM**	**7**		
	Simple vapor absorption refrigeration system	1		Dt. 21.10.2022
	Practical vapor absorption refrigeration system	2		Dt. 25.10.2022 , 26.10.2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	COP of an ideal vapor absorption refrigeration system	2	October.	Dt. 28.10.2022 , 01.11.2022
	Numerical on COP	2	November	Dt. 2.11.2022 , 04.11.2022
	REFRIGERATION EQUIPMENTS	**8**		
4	REFRIGERANT COMPRESSORS: a)Principle of working and constructional details of reciprocating and rotary compressors b)Centrifugal compressor only theory c)Important terms d)Hermetically and semi hermetically sealed compressor.	3		Dt. 07.11.2022 , 09.11.2022 11.11.2022
	CONDENSERS: a)Principle of working and constructional details of air cooled and water cooled condenser, b)Heat rejection ratio, c)Cooling tower and spray pond.	2		Dt. 14.11.2022 , 15.11.2022
	EVAPORATORS: a)Principle of working and constructional details of an evaporator, b)Types of evaporator, c)Bare tube coil evaporator, finned evaporator, shell and tube evaporator	3		Dt. 16.11.2022 , 18.11.2022 , 21.11.2022
	REFRIGERANT FLOW CONTROLS, REFRIGERANTS & APPLICATION OF REFRIGERANTS	**10**		
	EXPANSION VALVES: a) Capillary tube, b)Automatic expansion valve, c)Thermostatic expansion valve	3		Dt. 22.11.2022, 23.11.2022 , 25.11.2022
5	REFRIGERANTS: a) Classification of refrigerants b)Desirable properties of an ideal refrigerant. c) Designation of refrigerant. d) Thermodynamic Properties of Refrigerants. e)Chemical properties of refrigerants. f) commonly used refrigerants, R-11, R-12, R-22, R-134a, R-717 g)Substitute for CFC	5		Dt. 28.11.2022 , 29.11.2022, 30.11.2022 02.12.2022 , 05.12.2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	Applications of refrigeration: a)cold storageb)dairy refrigeration, c) ice plant , d) water cooler , e) frost free refrigerator	2	December	Dt. 06.12.2022 , 07.12.2022
6	**PSYCHOMETRICS &COMFORT AIR CONDITIONING SYSTEMS**	**10**		
	Psychometric terms	1		Dt. 09.12.2022
	Adiabatic saturation of air by evaporation of water	1		Dt. 12.12.2022
	Psychometric chart and uses.	2		Dt. 13.12.2022 , 14.12.2022
	Psychometric processes:a) Sensible heating and Cooling, b)Cooling and Dehumidification c)Heating and Humidification, d)Adiabatic cooling with humidification, e)Total heating of a cooling process, f)SHF, BPF, g)Adiabatic mixing, h)Problems on above.	4		Dt. 16.12.2022 , 19.12.2022 20.12.2022 , 21.12.2022
	Effective temperature and Comfort chart	2		Dt. 23.12.2022 , 02.01.2023
7	**AIR CONDITIONING SYSTEMS**	**10**		
	Factors affecting comfort air conditioning	1		Dt. 03.01.2023
	Equipment used in an air-conditioning	1		Dt. 04.01.2023
	Classification of air-conditioning system	1		Dt. 06.01.2023
	Winter Air Conditioning System	2		Dt. 09.01.2023 , 10.01.2023
	Summer air-conditioning system.	2		Dt. 11.01.2023 , 13.01.2023 , 16.01.2023
	Numerical on above	3		Dt. 17.01.2023 , 18.01.2023 , 20.01.2023

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THEORY LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MECHANICAL ENGINEERING SEMESTER: 5TH
SECTION:- MB

NAME OF THE FACULTY : (1) ANUPAMA BEHERA (LECT. IN MGMT.)

SEMESTER FROM : 15.09.2022 to 21.01.2023 THEORY SUBJECT: ENTERPRENEURSHIP AND MANAGEMENT & SMART TECHNOLOGY (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	**Entrepreneurship**	**10**		
	Concept /Meaning of Entrepreneurship and Need of Entrepreneurship	1	September	Dt. 15.09.2022
	Characteristics, Qualities and Types of entrepreneur, Functions	1		Dt. 16.09.2022 , 19.09.2022
	Barriers in entrepreneurship	1		Dt. 20 . 09. 2022
	Entrepreneurs vrs. Manager	1		Dt. 21.09.2022
	Forms of Business Ownership: Sole proprietorship, partnership forms and others	1		Dt. 22.09.2022 , 23.09.2022
	Types of Industries, Concept of Start-ups	1		Dt. 26.09.2022 , 27.09.2022
	Entrepreneurial support agencies at National, State, District Level(Sources): DIC, NSIC,OSIC, SIDBI, NABARD, Commercial Banks, KVIC etc.	2		Dt. 28.09.2022 , 29.09.2022 30.09.2022
	Technology Business Incubators (TBI) and Science and Technology Entrepreneur Parks	2	October	Dt 10.10.2022 , 11. 10.2022, 12.10.2022
2	**Market Survey and Opportunity Identification (Business Planning)**	8		
	Business Planning	2		Dt. 13.10.2022 , 14.10.2022, 17.10.2022
	SSI, Ancillary Units, Tiny Units, Service sector Units	1		Dt. 18.10.2022 , 19.10.2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	Time schedule Plan, Agencies to be contacted for Project Implementation	1	October	Dt. 20.10.2022
	Assessment of Demand and supply and Potential areas of Growth	1		Dt. 21.10.2022 , 25.10.2022
	Assessment of Demand and supply and Potential areas of Growth	1		Dt. 26.10.2022 , 27.10.2022
	Identifying Business Opportunity	1		Dt. 28.10.2022
	Final Product selection	1		Dt. 31.10.2022
3	**Project Report Preparation**	4		
	Preliminary project report	1	November	Dt. 01.11.2022 , 02.11.2022
	Detailed project report, Techno economic Feasibility	2		Dt. 03.11.2022 , 04.11.2022 , 07.11.2022
	Project Viability	1		Dt. 09.11.2022
4	**Management Principles**	5		
	Definitions of management and Principles of management	1		Dt. 10.11.2022 , 11.11.2022
	Functions of management (planning, organising, staffing, directing and controlling etc.)	2		Dt. 14.11.2022 , 15.11.2022
	Level of Management in an Organisation	2		Dt. 16.11.2022 , 17.11.2022 , 18.11.2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
5	**Functional Areas of Management**	10		
	a) Production management: Functions, Activities, Productivity, Quality control, Production Planning and control	2		Dt. 21.11.2022 , 22.11.2022
	b) Inventory Management: Need for Inventory management, Models/Techniques of Inventory management	1		Dt. 23.11.2022 , 24.11.2022
	c) Financial Management: Functions of Financial management, Management of Working capital, Costing (only concept), Break even Analysis, Brief idea about Accounting Terminologies: Book Keeping, Journal entry, Petty Cash book, P&L Accounts, Balance Sheets(only Concepts)	3		Dt. 25.11.2022 , 28.11.2022 29.11.2022 , 30.11.2022
	d)Marketing Management: Concept of Marketing and Marketing Management, Marketing Techniques (only concepts), Concept of 4P s (Price, Place, Product, Promotion)	2	December	Dt. 01.12.2022 , 02.12.2022
	e) Human Resource Management: Functions of Personnel Management,Manpower Planning, Recruitment, Sources of manpower, Selection process, Method of Testing, Methods of Training & Development, Payment of Wages	2		Dt. 05.12.2022 , 06.12.2022
6	**Leadership and Motivation**	6		
	a) Leadership: Definition and Need/Importance, Qualities and functions of a leader, Manager Vs Leader, Style of Leadership (Autocratic, Democratic, Participative)	2		Dt. 07.12.2022 , 08.12.2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	b) Motivation: Definition and characteristics, Importance of motivation, Factors affecting motivation, Theories of motivation (Maslow), Methods of Improving Motivation, Importance of Communication in Business, Types and Barriers of Communication	4	December	Dt. 09.12.2022 , 12.12.2022 13.12.2022 , 14.12.2022
7	**Work Culture, TQM & Safety**	5		
	Human relationship and Performance in Organization	1		Dt. 15.12.2022
	Relations with Peers, Superiors and Subordinates	1		Dt. 16.12.2022
	TQM concepts: Quality Policy, Quality Management, Quality system	2		Dt. 19.12.2022 , 20.12.2022
	Accidents and Safety, Cause, preventive measures, General Safety Rules , Personal Protection Equipment(PPE)	1		Dt. 21.12.2022 , 22.12.2022
8	**Legislation**	6		
	Intellectual Property Rights(IPR), Patents, Trademarks, Copyrights	2		Dt. 23.12.2022 , 02.01.2023
	Features of Factories Act 1948 with Amendment (only salient points)	2	January	Dt. 03.01.2023 , 04.01.2023
	Features of Payment of Wages Act 1936 (only salient points)	2		Dt. 05.01.2023 , 06.01.2023 , 09.01.2023

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
9	**Smart Technology**	6		
	Concept of IOT, How IOT works	1		Dt. 10.01.2023 , 11.01.2023
	Components of IOT, Characteristics of IOT, Categories of IOT	2		Dt. 12.01.2023 , 13.01.2023 , 16.01.2023
	Applications of IOT- Smart Cities, Smart Transportation, Smart Home, Smart Healthcare, Smart Industry, Smart Agriculture, Smart Energy Management etc.	3		Dt. 17.01.2023 , 18.01.2023, 19.01.2023 20.01.2023 .

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THEORY LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MECHANICAL ENGINEERING SEMESTER: 5TH SECTION: MB	NAME OF THE FACULTY : (1) ER. TARANISEN MOHANTY (H.O.D. IN MECH. ENGG.), (2) ER. LAKIN KUMAR SAHOO (LECT. IN MECH. ENGG.)
SEMESTER FROM : 15.09.2022 to 21.01.2023	THEORY SUBJECT: DESIGN OF MACHINE ELEMENTS (TH-2)
CLASS ALLOTTED /WEEK : 04 PERIODS	

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
1	**INTRODUCTION**	12		
	Introduction to Machine Design and Classify it.	1	Sept.	Dt. 15.09.2022
	Different mechanical engineering materials used in design with their uses and their mechanical and physical properties.	2		Dt. 19.09.2022 , 20.09.2022
	Define working stress, yield stress, ultimate stress & factor of safety and stress –strain curve for M.S & C.I.	3		Dt. 21.09.2022 , 22.09.2022 26.09.2022
	Modes of Failure (By elastic deflection, general yielding & fracture)	2		Dt. 27.09.2022 , 28.09.2022
	State the factors governing the design of machine elements.	2		Dt. 29.09.2022 , 10.10.2022
	Describe design procedure.	2	October	Dt. 11.10.2022 , 12.10.2022
2	**DESIGN OF FASTENING ELEMENTS**	12		
	Joints and their classification.	2		Dt. 13.10.2022 , 14.10.2022 ,
	State types of welded joints and State advantages of welded joints over other joints.	2		Dt. 17.10.2022 , 18.10.2022
	State types of riveted joints and types of rivets, Describe failure of riveted joints.	2		Dt. 19.10.2022 , 20.10.2022
	Determine strength & efficiency of riveted joints.	2		Dt. 27.10.2022 , 31.10.2022.

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	Design riveted joints for pressure vessel.	2	November	Dt. 01.11.2022 , 02.11.2022
	Solve numerical on Welded Joint and Riveted Joints.	2		Dt. 03.11.2022 , 07.11.2022
3	**DESIGN OF SHAFTS AND KEYS**	**12**		
	State function of shafts, State materials for shafts	2		Dt. 09.11.2022 , 10.11.2022
	Design solid & hollow shafts to transmit a given power at given rpm based on a) Strength: (i) Shear stress, (ii) Combined bending tension; b) Rigidity: (i) Angle of twist, (ii) Deflection, (iii) Modulus of rigidity	2		Dt. 14.11.2022 , 15.11.2022
	State standard size of shaft as per I.S.	1		Dt. 16.11.2022
	State function of keys, types of keys & material of keys, Describe failure of key, effect of key way.	1		Dt. 17.11.2022
	Design rectangular sunk key considering its failure against shear & crushing	2		Dt. 21.11.2022 , 22.11.2022
	Design rectangular sunk key by using empirical relation for given diameter of shaft.	2		Dt. 23.11.2022 , 24.11.2022
	State specification of parallel key, gib-head key, taper key as per I.S.	2	December	Dt. 01.12.2022 , 02.12.2022
4	**DESIGN OF COUPLING**	**12**		
	Design of Shaft Coupling, Requirements of a good shaft coupling	3		Dt. 05.12.2022 , 07.12.2022 08.12.2022
	Types of Coupling	1		Dt. 09.12.2022 ,
	Design of Sleeve or Muff-Coupling.	3		Dt. 12.12.2022 , 14.12.2022 , 15.12.2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	Design of Clamp or Compression Coupling.	3		Dt. 16.12.2022 , 19.12.2022 21.12.2022
	Solve simple numerical on above	2		Dt. 22.12.2022 , 23.12.2022
5	**DESIGN A CLOSED COIL HELICAL SPRING**	**12**		
	Materials used for helical spring.	1	January	Dt. 02.01.2023 , 0
	Standard size spring wire. (SWG).	2		Dt. 04.01.2023 , 05.01.2023
	Terms used in compression spring.	1		Dt. 06.01.2023
	Stress in helical spring of a circular wire.	2		Dt. 09.01.2023 , 11.01.2023 ,
	Deflection of helical spring of circular wire.	2		Dt. 12.01.2023 , 13.01.2023
	Surge in spring	2		Dt. 16.01.2023 , 18.01.2023
	Solve numerical on design of closed coil helical compression spring.	2		Dt. 19.01.2023 , 20.01.2023

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THEORY LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MECHANICAL ENGINEERING SEMESTER: 5TH SECTION: MB

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

SEMESTER FROM : 15.09.2022 to 21.01.2023 THEORY SUBJECT: HYDRAULIC MACHINES & INDUSTRIAL FLUID POWER (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	**HYDRAULIC TURBINES**	**10**	September	
	Definition and classification of hydraulic turbines	1		Dt. 15.09.2022
	Construction and working principle of impulse turbine.	1		Dt. 16.09.2022
	Velocity diagram of moving blades, work done and derivation of various efficiencies of impulse turbine.	1		Dt. 19.09.2022 ,
	Velocity diagram of moving blades, work done and derivation of various efficiencies of Francis turbine.	2		Dt. 21.09.2022 , 22.09.2022
	Velocity diagram of moving blades, work done and derivation of various efficiencies of Francis turbine.	2		Dt. 23.09.2022 , 26.09.2022
	Numerical on above	2		Dt. 28.09.2022 , 29.09.2022
	Distinguish between impulse turbine and reaction turbine.	1		Dt. 30.09.2022
2	**CENTRIFUGAL PUMPS**	**5**		
	Construction and working principle of centrifugal pumps	1	October	Dt. 10.10.2022
	work done and derivation of various efficiencies of centrifugal pumps.	2		Dt. 12.10.2022 , 13.10.2022
	Numerical on above	2		Dt. 14.10.2022 , 17.10.2022 , 19.10.2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
3	**RECIPROCATING PUMPS**	**10**		
	Describe construction & working of single acting reciprocating pump.	2	October	Dt. 20.10.2022 , 21.10.2022
	Describe construction & working of double acting reciprocating pump.	2		Dt. 26.10.2022 , 27.10.2022
	Derive the formula foe power required to drive the pump (Single acting & double acting)	3		Dt. 28.10.2022 , 31.10.2022
	Define slip,State positive & negative slip & establish relation between slip & coefficient of discharge.	1	November.	Dt. 02.11.2022 , 03.11.2022
	Solve numerical on above	2		Dt. 04.11.2022 , 07.11.2022 , 09.11.2022
4	**PNEUMATIC CONTROL SYSTEM**	**15**		
	Elements –filter-regulator-lubrication unit	2		Dt. 10.11.2022 , 11.11.2022
	Pressure control valves: Pressure relief valves, Pressure regulation valves	3		Dt 14.11.2022 , 16.11.2022 , 17.11.2022
	Direction control valves:3/2DCV, 5/2 DCV,5/3DCV ,Flow control valves, Throttle valves	3		Dt. 18.11.2022 , 21.11.2022 , 23.11.2022
	ISO Symbols for hydraulic components.	2		Dt. 24.11.2022 , 25.11.2022
	Pneumatic circuits: Direct control of single acting cylinder, Operation of double acting cylinder, Operation of double acting cylinder with metering in and metering out control	5		Dt. 28.11.2022 , 30.11.2022 01.12.2022 , 02.12.2022 , 05.12.2022
5	**HYDRAULIC CONTROL SYSTEM**	**20**		
	Hydraulic system, its merit and demerits	1	December	Dt. 07.12.2022
	Hydraulic accumulators, Pressure control valves, Pressure relief valves, Pressure regulation valves	3		Dt 08.12.2022 , 09.12.2022 12.12.2022
	Direction control valves: 3/2DCV,5/2 DCV,5/3DCV,Flow control valves, Throttle valves	3		Dt. 14.12.2022 , 15.12.2022 16.12.2022
	Fluid power pumps: External and internal gear pumps,Vane pump,Radial piston pumps	3		Dt. 19.12.2022 , 21.12.2022 22.12.2022 , 23.12.2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	ISO Symbols for hydraulic components.	2	January	Dt. 02.01.2023 , 04.01.2023 , 05.01.2023
	Actuators	3		Dt. 06.01 , 2023 , 09.01.2023 , 11.01.2023
	Hydraulic circuits: Direct control of single acting cylinder,Operation of double acting cylinder,Operation of double acting cylinder with metering in and metering out control	3		Dt. 12.01.2023 , 13.01.2023 , 16.01.2023
	Comparison of hydraulic and pneumatic system	2		Dt. 18.01.2023 , 19.01.2023 , 20.01.2023

Subhasmita Jena.

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THEORY LESSON PLAN FOR THE SESSION 2022 - 23				
BRANCH:-MECHANICAL ENGINEERING SEMESTER: 5TH SECTION: MB			NAME OF THE FACULTY : (1) ER. DEWAN KUMAR SAHU, (2) ER. RASABIHARI SAHU (LECT. IN MECH. ENGG.)	
SEMESTER FROM : 15.09.2022 to 21.01.2023			THEORY SUBJECT: MECHATRONICS (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	**INTRODUCTION TO MECHATRONICS**	**5**		
	Definition of Mechatronics:Advantages & disadvantages of Mechatronics, Application of Mechatronics	2	September.	Dt. 15.09.2022 , 16.09.2022
	Scope of Mechatronics in Industrial Sector	1		Dt. 19.09.2022
	Components of a Mechatronics System	1		Dt. 21.09.2022
	Importance of mechatronics in automation	1		Dt. 22.09.2022
2	**SENSORS AND TRANSDUCERS**	**10**		
	Defination of Transducers, Classification of Transducers	1		Dt. 23.09.2022 ,
	Electromechanical Transducers	2		Dt. 26.09.2022 , 28.09.2022
	Transducers Actuating Mechanisms	2		Dt. 29.09.2022 , 30.09.2022
	Displacement & Positions Sensors	2	October.	Dt. 10.10.2022 , 12.10.2022 ,
	Velocity, motion, force and pressure sensors.	2		Dt. 13.10.2022 , 14.10.2022
	Temperature and light sensors.	1		Dt. 17.10.2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
3	**ACTUATORS-MECHANICAL, ELECTRICAL**	**10**		
	Mechanical Actuators: Machine, Kinematic Link, Kinematic Pair Mechanism, Slider crank Mechanism, Gear Drive, Spur gear, Bevel gear, Helical gear, worm gear, Belt & Belt drive, Bearings	6	October.	Dt. 19.10.2022 , 20.10.2022 21.10.2022 , 26.10.2022 27.10.2022 , 28.10.2022, 31.10.2022
	Electrical Actuator: **a)**Switches and relaySolenoid **b)** D.C Motors **c)** A.C Motors **d)**Stepper Motors **e)**Specification and control of stepper motors **f)**Servo Motors D.C & A.C	4	November	Dt. 02.11.2022 , 03.11.2022 04.11.2022 , 07.11.2022
4	**PROGRAMMABLE LOGIC CONTROLLERS(PLC)**	**15**		
	Introduction, Advantages of PLC	2		Dt. 09.11.2022 , 10.11.2022
	Selection and uses of PLC	2		Dt. 11.11.2022 , 14.11.2022
	Architecture basic internal structures	3		Dt. 16.11.2022 , 17.11.2022 , 18.11.2022
	Input/output Processing and Programming	3		Dt. 21.11.2022 , 23.11.2022 24.11.2022
	Mnemonics	2		Dt. 25.11.2022 , 28.11.2022 , 30.11.2022
	Master and Jump Controllers	3	December.	Dt. 01.12.2022 , 02.12.2022 , 05.12.2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
5	**ELEMENTS OF CNC MACHINES**	**15**		
	Introduction to Numerical Control of machines and CAD/CAM: NC machines, CNC machines, CAD/CAM, CAD,CAM, Software and hardware for CAD/CAM,Functioning of CAD/CAM system, Features and characteristics of CAD/CAM system,Application areas for CAD/CAM	8		Dt·07.12.2022, 08.12.2022, 09.12.2022 12.12.2022, 14.12.2022, 15.12.2022 16.12.2022, 19.12.2022
	elements of CNC machines: Introduction , Machine Structure ,Guideways/Slide ways, Introduction and Types of Guideways ,Factors of design of guideways, Drives,Spindle drives ,Feed drive 5.2.5 Spindle and Spindle Bearings	7		Dt·21.12.2022, 22.12.2022, 23.12.2022 02.01.2023, 04.01.2023, 05.01.2023 06.01.2023
6	**ROBOTICS**	**5**		
	Definition, Function and laws of robotics	1	January	Dt·09.01.2023, 11.01.2023
	Types of industrial robots	1		Dt·12.01.2023, 13.01.2023
	Robotic systems	2		Dt·16.01.2023, 18.01.2023
	Advantages and Disadvantages of robots	1		Dt·19.01.2023, 20.01.2023

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THEORY LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:-MECHANICAL ENGINEERING SEMESTER: 5TH
SECTION: MB

NAME OF THE FACULTY : (1) ER. SATYANARAYAN MAJHI,
(2) ER. KEDARA KUMAR PRADHAN (LECT. IN MECH. ENGG.)

SEMESTER FROM : 15.09.2022 to 21.01.2023

THEORY SUBJECT: REFRIGERATION AND AIR CONDITIONING (TH-5)

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	**AIR REFRIGERATION CYCLE**	5		
	Definition of refrigeration and unit of refrigeration	1	September	Dt. 15.09.2022
	Definition of COP, Refrigerating effect (R.E)	2		Dt. 16.09.2022 , 19.09.2022
	Principle of working of open and closed air system of refrigeration. 1.3.1 Calculation of COP of Bell-Coleman cycle and numerical on it	2		Dt. 21.09.2022 , 22.09.2022
2	**SIMPLE VAPOUR COMPRESSION REFRIGERATION SYSTEM**	10		
	schematic diagram of simple vapors compression refrigeration system, Types	1		Dt. 23.09.2022
	Cycle with dry saturated vapors after compression.	1		Dt. 26.09.2022
	Cycle with wet vapors after compression	1		Dt. 28.09.2022
	Cycle with superheated vapors after compression	1		Dt. 29.09.2022
	Cycle with superheated vapors before compression.	1		Dt. 30.09.2022
	Cycle with sub cooling of refrigerant	1	October.	Dt. 10.10.2022
	Representation of above cycle on temperature entropy and pressure enthalpy diagram	2		Dt. 12.10.2022 , 13.10.2022
	Numerical on above (determination of COP,mass flow)	2		Dt. 14.10.2022 , 17.10.2022
3	**VAPOUR ABSORPTION REFRIGERATION SYSTEM**	7		
	Simple vapor absorption refrigeration system	1		Dt. 19.10.2022
	Practical vapor absorption refrigeration system	2		Dt. 20.10.2022 , 21.10.2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	COP of an ideal vapor absorption refrigeration system	2		Dt. 26.10.2022 , 27.10.2022
	Numerical on COP	2		Dt. 28.10.2022 , 31.10.2022
	REFRIGERATION EQUIPMENTS	**8**		
4	REFRIGERANT COMPRESSORS: a)Principle of working and constructional details of reciprocating and rotary compressors b)Centrifugal compressor only theory c)Important terms d)Hermetically and semi hermetically sealed compressor.	3	November	Dt. 02.11.2022 , 03.11.2022 . 04.11.2022
	CONDENSERS: a)Principle of working and constructional details of air cooled and water cooled condenser, b)Heat rejection ratio, c)Cooling tower and spray pond.	2		Dt. 07.11.2022 , 09.11.2022
	EVAPORATORS: a)Principle of working and constructional details of an evaporator, b)Types of evaporator, c)Bare tube coil evaporator, finned evaporator, shell and tube evaporator	3		Dt. 10.11.2022 , 11.11.2022 14.11.2022
	REFRIGERANT FLOW CONTROLS, REFRIGERANTS & APPLICATION OF REFRIGERANTS	**10**		
	EXPANSION VALVES: a) Capillary tube, b)Automatic expansion valve, c)Thermostatic expansion valve	3		Dt. 16.11.2022 , 17.11.2022 18.11.2022 , 21.11.2022
5	REFRIGERANTS: a) Classification of refrigerants b)Desirable properties of an ideal refrigerant. c) Designation of refrigerant. d) Thermodynamic Properties of Refrigerants. e)Chemical properties of refrigerants. f) commonly used refrigerants, R-11, R-12, R-22, R-134a, R-717 g)Substitute for CFC	5		Dt. 23.11.2022 , 24.11.2022 , 25.11.2022 28.11.2022 , 30.11.2022

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	Applications of refrigeration: a)cold storageb)dairy refrigeration, c) ice plant , d) water cooler , e) frost free refrigerator	2	December.	Dt. 01.12.2022 , 02.12.2022
6	**PSYCHOMETRICS &COMFORT AIR CONDITIONING SYSTEMS**	**10**		
	Psychometric terms	1		Dt. 05.12.2022 , 07.12.2022
	Adiabatic saturation of air by evaporation of water	1		Dt. 08.12.2022
	Psychometric chart and uses.	2		Dt. 09.12.2022 , 12.12.2022 , 14.12.2022
	Psychometric processes:a) Sensible heating and Cooling, b)Cooling and Dehumidification c)Heating and Humidification, d)Adiabatic cooling with humidification, e)Total heating of a cooling process, f)SHF, BPF, g)Adiabatic mixing, h)Problems on above.	4		Dt. 15.12.2022 , 16.12.2022 19.12.2022 , 21.12.2022
	Effective temperature and Comfort chart	2		Dt. 22.12.2022 , 23.12.2022
7	**AIR CONDITIONING SYSTEMS**	**10**		
	Factors affecting comfort air conditioning	1	January	Dt. 02.01.2023 ,
	Equipment used in an air-conditioning	1		Dt. 04.01.2023 , 05.01.2023
	Classification of air-conditioning system	1		Dt. 06.01.2023 , 09.01.2023
	Winter Air Conditioning System	2		Dt. 11.01.2023 , 12.01.2023
	Summer air-conditioning system.	2		Dt. 13.01.2023 , 16.01.2023
	Numerical on above	3		Dt. 18.01.2023 , 19.01.2023 , 20.01.2023

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PRACTICAL LESSION PLAN FOR THE SESSION 2022 - 23

BRANCH:-MECHANICAL ENGG. SEMESTER: 5TH SECTION :- MA1

NAME OF THE FACULTY : (1) ER. SATYA NARAYAN MAJHI, (2) ER. KEDARA KUMAR PRADHAN (LECT. IN MECH. ENGG.),

SEMESTER FROM DT. 15.09.2022 TO 21.01.2023 PRACTICAL SUBJECT: REFRIGERATION & AIRCONDITIONING LAB. (PR-1)

CLASS ALLOTTED /WEEK:- 04 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
1	Study the construction features of Domestic Refrigerator.	September	03	Dt. 19.09.2022, 22.09.2022 29.09.2022
2	Study the construction features of water cooler.	October	02	Dt. 10.10.2022, 13.10.2022
3	Study the construction features of window air conditioner		03	Dt. 17.10.2022, 20.10.2022 27.10.2022
4	Study the construction features of split air conditioner		03	Dt. 31.10.2022, 03.11.2022 07.11.2022
5	Determine the capacity and cop of vapour compression Refrigerator test rig.	November	03	Dt. 10.11.2022, 17.11.2022, 21.11.2022
6	Determine the capacity and cop of water cooler		03	Dt. 24.11.2022, 28.11.22, 01.12.2022
7	Determine the capacity and cop of window air conditioner	December	03	Dt. 05.12.2022, 08.12.2022, 12.12.2022
8	Determine the capacity and cop of split air conditioner		03	Dt. 15.12.2022, 19.12.2022, 22.12.2022
9	Determine the capacity and cop of vapour absorption Refrigerator test rig.	January	03	Dt. 02.01.2023, 05.01.2023 09.01.2023
10	Complete charging of a domestic refrigerator and its leak test.		03	Dt. 12.01.2023, 16.01.2023 19.01.2023

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PRACTICAL LESSION PLAN FOR THE SESSION 2022 - 23

BRANCH:-MECHANICAL ENGG. SEMESTER: 5TH SECTION :- MA1

NAME OF THE FACULTY : (1) ER. SUBHASMITA JENA (LECT. IN MECH. ENGG.), (2) ER. PRADEEP KUMAR SAHOO, (3) ER. BISHNU CHARANA BEHERA (T.A., MECH. ENGG)

SEMESTER FROM DT. 15.09.2022 TO 21.01.2023 PRACTICAL SUBJECT: HYDRAULIC MACHINES & INDUSTRIAL FLUID POWERS LAB. (PR-2)

CLASS ALLOTTED /WEEK:- 04 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
1	Performance test on impulse turbine and to find out the efficiency	September	02	Dt. 17.09.2022 , 24.09.2022
2	Performance test on Kaplan turbine and to find out the efficiency	October	02	Dt. 15.10.2022 , 22.10.2022
3	Performance test on Francis turbine and to find out the efficiency		02	Dt. 29.10.2022 , 05.11.2022
4	Performance test on centrifugal pump and to find out the characteristic curves	November	02	Dt. 12.11.2022 , 19.11.2022
5	Direct operation of single &double acting pneumatic cylinder.		02	Dt. 26.11.2022 , 03.12.2022
6	Operating double acting pneumatic cylinder with quick exhaust valve	December	01	Dt. 10.12.2022 ,
7	Speed control double acting pneumatic cylinder using metering in and metering out circuits.		01	Dt. 17.12.2022
8	Direct operation of single &double acting hydraulic cylinder		01	Dt. 24.12.2022
9	Direct operation of hydraulic motor	January	01	Dt. 07.01.2023
10	Speed control double acting hydraulic cylinder using metering in & metering out circuits		01	Dt. 21.01.2023

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PRACTICAL LESSION PLAN FOR THE SESSION 2022 - 23

BRANCH:-MECHANICAL ENGG. SEMESTER: 5TH SECTION:- MA1

NAME OF THE FACULTY : (1) ER. DEWAN KUMAR SAHU, (2) ER. RASABIHARI SAHU, (3) ER. ABINASH SAHOO (LECT. IN MECH. ENGG.)

SEMESTER FROM DT. 15.09.2022 TO 21.01.2023 PRACTICAL SUBJECT: CAD/CAM LAB. (PR-3)

CLASS ALLOTTED /WEEK:- 04 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
1	Gib and cutter joint	Sept.	02	Dt. 21.09.2022, 28.09.2022
2	Screw Jack;		02	Dt. 28.09.2022, 30.09.2022
3	Connecting Rod;	October	02	Dt. 12.10.2022, 14.10.2022
4	Bearing Block		02	Dt. 19.10.2022, 21.10.2022
5	Study of CNC lathe, milling;		02	Dt. 26.10.2022, 29.10.2022
6	Study of international codes; G-Codes and M –Codes	Nov	02	Dt. 02.11.2022, 04.11.2022
7	Format –Dimensioning methods;		02	Dt. 09.11.2022, 11.11.2022
8	Programme writing –Turning Simulator-Milling simulator IS practice-commands menus		03	Dt. 16.11.2022, 18.11.2022 23.11.2022
9	Editing the programme in the CNC MACHINES		03	Dt. 25.11.2022, 30.11.2022 02.12.2022
10	Execute the programme in the CNC machines	Dec	03	Dt. 07.12.2022, 09.12.22, 14.12.22
11	Print the programme and make the component in the CNC machine;		03	Dt. 16.12.2022, 21.12.2022, 23.12.2022
12	Using canned cycle-create a part programme for thread cutting, grooving and produce component in the CNC Turning Machine	January	03	Dt. 04.01.2023, 06.01.2023 11.01.2023
13	Using Linear interpolation and Circular Interpolation-Create a part programme for grooving and produce component in the CNC Milling Machine		03	Dt. 13.01.2023, 18.01.2023 20.01.2023

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PRACTICAL LESSION PLAN FOR THE SESSION 2022 - 23

BRANCH:-MECHANICAL ENGG. SEMESTER: 5TH SECTION:- MA1

NAME OF THE FACULTY : (1) ER. DEWAN KUMAR SAHU, (2) ER. GOURI SANKAR PRADHAN, (3) ER. KEDARA KUMAR PRADHAN (LECT. IN MECH. ENGG.)

SEMESTER FROM DT. 15.09.2022 TO 21.01.2023 PRACTICAL SUBJECT: PROJECT WORK (PHASE-I) (PR-4)

CLASS ALLOTTED /WEEK:- 04 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
01	Selection of Project.	September	04	Dt. 20.09.2022, 27.09.2022 11.10.2022, 18.10.2022
02	Distribution of Groups	October	04	Dt. 25.10.2022, 01.11.2022 15.11.2022, 22.11.2022
03	Distribution of assignment and Seminar	November	04	Dt. 29.11.2022, 06.12.2022 13.12.2022, 20.12.2022
04	Seminar & Viva-Voce.	January	03	Dt. 03.01.2023, 10.01.2023 17.01.2023.

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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:- MECHANICAL ENGG. SEMESTER: 3RD SECTION:- MA1

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

SEMESTER FROM DT.15.09.2022 TO 21.01.2023 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	Sept	04	Dt. 22.09.2022, 29.09.2022 13.10.2022, 20.10.2022
02	Seminar on different technical topics	Oct	04	Dt. 27.10.2022, 03.11.2022 10.11.2022, 17.11.2022
03	Seminar on different environmental issues	Nov	04	Dt. 24.11.2022, 01.12.2022 08.12.2022, 15.12.2022
04	Personality development class	Dec-Jan	04	Dt. 22.12.2022, 05.01.2023 12.01.2023, 19.01.2023

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PRACTICAL LESSION PLAN FOR THE SESSION 2022 - 23

BRANCH:-MECHANICAL ENGG. SEMESTER: 5TH SECTION :- MA2

NAME OF THE FACULTY : (1) ER. SATYA NARAYAN MAJHI, (2) ER. KEDARA KUMAR PRADHAN (LECT. IN MECH. ENGG.),

SEMESTER FROM DT. 15.09.2022 TO 21.01.2023 PRACTICAL SUBJECT: REFRIGERATION & AIRCONDITIONING LAB. (PR-1)

CLASS ALLOTTED /WEEK:- 04 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
1	Study the construction features of Domestic Refrigerator.	September	04	Dt. 21.09.2022, 23.09.2022 28.09.2022, 30.09.2022
2	Study the construction features of water cooler.	October	03	Dt. 05.10.2022, 12.10.2022, 14.10.2022 19.10.2022
3	Study the construction features of window air conditioner		04	Dt. 21.10.2022, 26.10.2022 28.10.2022, 02.11.2022
4	Study the construction features of split air conditioner	November	03	Dt. 04.11.2022, 09.11.2022 11.11.2022
5	Determine the capacity and cop of vapour compression Refrigerator test rig.		04	Dt. 16.11.2022, 18.11.2022 23.11.2022, 25.11.2022
6	Determine the capacity and cop of water cooler		03	Dt. 30.11.2022, 02.12.2022, 07.12.22
7	Determine the capacity and cop of window air conditioner	December	03	Dt. 09.12.2022, 14.12.2022 16.12.2022
8	Determine the capacity and cop of split air conditioner		03	Dt. 21.12.2022, 28.12.2022 04.01.2023
9	Determine the capacity and cop of vapour absorption Refrigerator test rig.	January	03	Dt. 06.01.2023, 11.01.2023 13.01.2023
10	Complete charging of a domestic refrigerator and its leak test.		02	Dt. 18.01.2023, 20.01.2023

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PRACTICAL LESSION PLAN FOR THE SESSION 2022 - 23

BRANCH:-MECHANICAL ENGG. SEMESTER: 5TH SECTION :- MA2

NAME OF THE FACULTY : (1) ER. SUBHASMITA JENA (LECT. IN MECH. ENGG.), (2) ER. PRADEEP KUMAR SAHOO, (3) ER. BISHNU CHARANA BEHERA (T.A., MECH. ENGG)

SEMESTER FROM DT. 15.09.2022 TO 21.01.2023 PRACTICAL SUBJECT: HYDRAULIC MACHINES & INDUSTRIAL FLUID POWERS LAB. (PR-2)

CLASS ALLOTTED /WEEK:- 04 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
1	Performance test on impulse turbine and to find out the efficiency	September	02	Dt. 17.09.2022 , 24.09.2022
2	Performance test on Kaplan turbine and to find out the efficiency	October	02	Dt. 15.10.2022 , 22.10.2022
3	Performance test on Francis turbine and to find out the efficiency		02	Dt. 29.10.2022 , 05.11.2022
4	Performance test on centrifugal pump and to find out the characteristic curves	November	02	Dt. 12.11.2022 , 19.11.2022
5	Direct operation of single &double acting pneumatic cylinder.		02	Dt. 26.11.2022 , 03.12.2022
6	Operating double acting pneumatic cylinder with quick exhaust valve	December	01	Dt. 10.12.2022
7	Speed control double acting pneumatic cylinder using metering in and metering out circuits.		01	Dt. 17.12.2022
8	Direct operation of single &double acting hydraulic cylinder		01	Dt. 24.12.2022.
9	Direct operation of hydraulic motor	January	01	Dt. 07.01.2023
10	Speed control double acting hydraulic cylinder using metering in & metering out circuits		01	Dt. 21.01.2023

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PRACTICAL LESSION PLAN FOR THE SESSION 2022 - 23

BRANCH:-MECHANICAL ENGG. SEMESTER: 5TH SECTION:- MA2

NAME OF THE FACULTY : (1) ER. DEWAN KUMAR SAHU, (2) ER. RASABIHARI SAHU, (3) ER. ABINASH SAHOO (LECT. IN MECH. ENGG.)

SEMESTER FROM DT. 15.09.2022 TO 21.01.2023 PRACTICAL SUBJECT: CAD/CAM LAB. (PR-3)

CLASS ALLOTTED /WEEK:- 04 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
1	Gib and cutter joint	Sept.	02	Dt. 19.09.2022 , 22.09.2022
2	Screw Jack;		02	Dt. 29.09.2022 , 10.10.2022
3	Connecting Rod;	Oct	02	Dt. 13.10.2022 , 17.10.2022
4	Bearing Block		02	Dt. 20.10.2022 , 27.10.2022
5	Study of CNC lathe, milling;		02	Dt. 31.10.2022 , 03.11.2022
6	Study of international codes; G-Codes and M –Codes		02	Dt. 07.11.2022 , 10.11.2022
7	Format –Dimensioning methods;		02	Dt. 17.11.2022 , 21.11.2022
8	Programme writing –Turning Simulator-Milling simulator IS practice-commands menus		02	Dt. 24.11.2022 , 28.11.2022
9	Editing the programme in the CNC MACHINES	Dec	02	Dt. 01.12.2022 , 05.12.2022
10	Execute the programme in the CNC machines		02	Dt. 08.12.2022 , 12.12.2022
11	Print the programme and make the component in the CNC machine;		03	Dt. 15.12.2022 , 19.12.2022 22.12.2022
12	Using canned cycle-create a part programme for thread cutting, grooving and produce component in the CNC Turning Machine	Jan	03	Dt. 02.01.2023 , 05.01.2023 09.01.2023
13	Using Linear interpolation and Circular Interpolation-Create a part programme for grooving and produce component in the CNC Milling Machine		03	Dt. 12.01.2023, 16.01.2023 19.01.2023

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PRACTICAL LESSION PLAN FOR THE SESSION 2022 - 23

BRANCH:-MECHANICAL ENGG. SEMESTER: 5TH SECTION:- MA2

NAME OF THE FACULTY : (1) ER. DEWAN KUMAR SAHU, (2) ER. GOURI SANKAR PRADHAN, (3) ER. KEDARA KUMAR PRADHAN (LECT. IN MECH. ENGG.)

SEMESTER FROM DT. 15.09.2022 TO 21.01.2023 PRACTICAL SUBJECT: PROJECT WORK (PHASE-I) (PR-4)

CLASS ALLOTTED /WEEK:- 04 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
01.	Selection of Project	Sept.	04	Dt. 20.09.2022, 27.09.2022 11.10.2022, 18.10.2022
02.	Distribution of groups.	Oct.	04	Dt. 25.10.2022, 01.11.2022 15.11.2022, 22.11.2022
03.	Distribution of assignments and seminar.	Nov.	04	Dt. 29.11.2022, 06.12.2022 13.12.2022 20.12.2022
04.	Seminar & Viva-Voce.	Jan	04	Dt 03.01.2023, 10.01.2023 17.01.2023

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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:- MECHANICAL ENGG. SEMESTER: 3RD SECTION:- MA1

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

SEMESTER FROM DT.15.09.2022 TO 21.01.2023 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	Sept.	04	Dt. 22.09.2022, 29.09.2022 13.10.2022, 20.10.2022
02	Seminar on different technical topics	Oct.	04	Dt. 27.10.2022, 03.11.2022 10.11.2022, 17.11.2022
03	Seminar on different environmental issues	Nov.	04	Dt. 24.11.2022, 01.12.2022 08.12.2022, 15.12.2022
04	Personality development class.	Dec-Jan	04	Dt. 22.12.2022, 05.01.2023 12.01.2023, 19.01.2023

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PRACTICAL LESSION PLAN FOR THE SESSION 2022 - 23

BRANCH:-MECHANICAL ENGG. SEMESTER: 5TH SECTION :- MB1

NAME OF THE FACULTY : (1) ER. SATYA NARAYAN MAJHI, (2) ER. KEDARA KUMAR PRADHAN (LECT. IN MECH. ENGG.),

SEMESTER FROM DT. 15.09.2022 TO 21.01.2023 PRACTICAL SUBJECT: REFRIGERATION & AIRCONDITIONING LAB. (PR-1)

CLASS ALLOTTED /WEEK:- 04 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
1	Study the construction features of Domestic Refrigerator.	September	03	19.09.22 , 22.09.22 , 28.09.22
2	Study the construction features of water cooler.	October	03	10.10.22 , 13.10.22 , 17.10.22
3	Study the construction features of window air conditioner		03	20.10.22 , 27.10.22, 31.10.22
4	Study the construction features of split air conditioner		03	03.11.22 , 07.11.22 , 10.11.22
5	Determine the capacity and cop of vapour compression Refrigerator test rig.		03	17.11.22 , 21.11.22 , 29.11.22
6	Determine the capacity and cop of water cooler		03	28.11.22 , 30.12.22 , 05.12.22
7	Determine the capacity and cop of window air conditioner	December	03	08.12.22 , 12.12.22 , 15.12.22
8	Determine the capacity and cop of split air conditioner		02	19.12.22 , 22.12.22 ,
9	Determine the capacity and cop of vapour absorption Refrigerator test rig.	January	03	02.01.23 , 05.01.23 , 09.01.23
10	Complete charging of a domestic refrigerator and its leak test.		03	12.01.23 , 16.01.23 , 19.01.23

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PRACTICAL LESSION PLAN FOR THE SESSION 2022 - 23

BRANCH:-MECHANICAL ENGG. SEMESTER: 5TH SECTION :- MB1

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

SEMESTER FROM DT. 15.09.2022 TO 21.01.2023 PRACTICAL SUBJECT: HYDRAULIC MACHINES & INDUSTRIAL FLUID POWERS LAB. (PR-2)

CLASS ALLOTTED /WEEK:- 04 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
1	Performance test on impulse turbine and to find out the efficiency	September	02	20.09.22, 27.09.22
2	Performance test on Kaplan turbine and to find out the efficiency	October	02	11.10.22, 18.10.22,
3	Performance test on Francis turbine and to find out the efficiency		02	20.10.22, 01.11.22
4	Performance test on centrifugal pump and to find out the characteristic curves		02	15.11.22, 22.11.22
5	Direct operation of single &double acting pneumatic cylinder.		02	29.11.22, 06.12.22
6	Operating double acting pneumatic cylinder with quick exhaust valve		01	13.12.22,
7	Speed control double acting pneumatic cylinder using metering in and metering out circuits.		01	20.12.22
8	Direct operation of single &double acting hydraulic cylinder		01	03.01.23
9	Direct operation of hydraulic motor		01	10.01.23
10	Speed control double acting hydraulic cylinder using metering in & metering out circuits		01	17.01.23

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PRACTICAL LESSION PLAN FOR THE SESSION 2022 - 23

BRANCH:-MECHANICAL ENGG. SEMESTER: 5TH SECTION:- MB1

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

SEMESTER FROM DT. 15.09.2022 TO 21.01.2023 PRACTICAL SUBJECT: CAD/CAM LAB. (PR-3)

CLASS ALLOTTED /WEEK:- 04 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
1	Gib and cutter joint	September	02	16.09.22, 20.09.22
2	Screw Jack;		02	23.09.22, 27.09.22
3	Connecting Rod;		01	30.09.22,
4	Bearing Block	October	02	11.10.22, 14.10.22,
5	Study of CNC lathe, milling;		02	18.10.22, 21.10.2022
6	Study of international codes; G-Codes and M –Codes		02	Dt. 25.10.22, 28.10.2022
7	Format –Dimensioning methods;		02	Dt. 04.11.2022, 11.11.2022
8	Programme writing –Turning Simulator-Milling simulator IS practice-commands menus		03	Dt. 15.11.2022, 18.11.2022 22.11.2022.
9	Editing the programme in the CNC MACHINES		03	Dt. 25.11.2022, 29.11.2022 02.12.2022
10	Execute the programme in the CNC machines		03	Dt. 06.12.2022, 09.12.2022 13.12.2022
11	Print the programme and make the component in the CNC machine;		03	Dt. 16.12.2022, 20.12.2022 23.12.2022
12	Using canned cycle-create a part programme for thread cutting, grooving and produce component in the CNC Turning Machine		03	Dt. 03.01.2023. 06.01.2023 10.01.2023
13	Using Linear interpolation and Circular Interpolation-Create a part programme for grooving and produce component in the CNC Milling Machine		03	Dt. 13.01.2023, 17.01.2023 20.01.2023

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PRACTICAL LESSION PLAN FOR THE SESSION 2022 - 23

BRANCH:-MECHANICAL ENGG. SEMESTER: 5TH SECTION:- MB1

NAME OF THE FACULTY : (1) ER. TARANISEN MOHANTY (H.O.D., MECH. ENGG.) (2) ER. SATYA NARAYAN MAJHI (LECT. IN MECH. ENGG.)

SEMESTER FROM DT. 15.09.2022 TO 21.01.2023 PRACTICAL SUBJECT: PROJECT WORK (PHASE-I) (PR-4)

CLASS ALLOTTED /WEEK:- 04 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
01.	Selection of projects.	Sept 03	03	Dt. 17.09.2022 , 24.09.2022 15.10.2022
02.	Distribution of groups.	04 Oct	04	Dt. 22.10.2023 , 29.10.2022 05.11.2022 , 12.11.2022
03.	Distribution of assignments & Seminar	04 Nov	04	Dt. 19.11.2022 , 26.11.2022 03.12.2022 , 10.12.2022
04	Seminar and Viva-voce.	04 Dec	04	Dt. 17.12.2022 , 24.12.2022 07.01.2023 , 21.01.2023

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PRACTICAL LESSON PLAN FOR THE SESSION 2022 - 23

BRANCH:- MECHANICAL ENGG. SEMESTER: 3RD SECTION:- MA1

NAME OF THE FACULTY : (1) ER. SHUBHAM PRADHAN (LECT. IN MECH. ENGG.)

SEMESTER FROM DT.15.09.2022 TO 21.01.2023 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	Sept.	04	Dt. 21.09.2022 , 28.09.2022 12.10.2022 , 19.10.2022
02.	Seminar on different technical topics	Oct	04	Dt. 26.10.2022 , 02.11.2022 09.11.2022 , 16.11.2022
03.	Seminar on different environmental issues.	Nov	04	Dt. 23.11.2022 , 30.11.2022 07.12.2022 , 14.12.2022
04.	Personality development classes.	Dec-Jan	04	Dt. 21.12.2022 , 03.01.2023 10.01.2023 , 17.01.2023

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PRACTICAL LESSION PLAN FOR THE SESSION 2022 - 23

BRANCH:-MECHANICAL ENGG. SEMESTER: 5TH SECTION :- MB2

NAME OF THE FACULTY : (1) ER. SATYA NARAYAN MAJHI, (2) ER. KEDARA KUMAR PRADHAN (LECT. IN MECH. ENGG.),

SEMESTER FROM DT. 15.09.2022 TO 21.01.2023 PRACTICAL SUBJECT: REFRIGERATION & AIRCONDITIONING LAB. (PR-1)

CLASS ALLOTTED /WEEK:- 04 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
1	Study the construction features of Domestic Refrigerator.	Sept.	06	Dt. 19.09.22, 22.09.22 28.09.22
2	Study the construction features of water cooler.	Oct.	06	Dt. 10.10.22, 13.10.22 17.10.22
3	Study the construction features of window air conditioner	Oct.	06	Dt. 20.10.22, 27.10.22 31.10.22
4	Study the construction features of split air conditioner	Nov.	06	Dt. 03.11.22, 07.11.22 10.11.22
5	Determine the capacity and cop of vapour compression Refrigerator test rig.	Nov.	06	Dt. 17.11.22, 21.11.22 24.11.22
6	Determine the capacity and cop of water cooler	DEC.	06	Dt. 28.11.22, 01.12.22 05.12.22
7	Determine the capacity and cop of window air conditioner	DEC.	06	Dt. 08.12.22, 12.12.22 15.12.22
8	Determine the capacity and cop of split air conditioner	DEC.	06	Dt. 19.12.22, 22.12.22 02.01.23
9	Determine the capacity and cop of vapour absorption Refrigerator test rig.	JAN.	06	Dt. 05.01.23, 09.01.23 12.01.23
10	Complete charging of a domestic refrigerator and its leak test.	JAN.	06	Dt. 16.01.23, 19.01.23

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PRACTICAL LESSION PLAN FOR THE SESSION 2022 - 23

BRANCH:-MECHANICAL ENGG. SEMESTER: 5TH SECTION :- MB2

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

SEMESTER FROM DT. 15.09.2022 TO 21.01.2023 PRACTICAL SUBJECT: HYDRAULIC MACHINES & INDUSTRIAL FLUID POWERS LAB. (PR-2)

CLASS ALLOTTED /WEEK:- 04 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
1	Performance test on impulse turbine and to find out the efficiency	SEPT.	06	Dt. 20.09.22, 27.09.22
2	Performance test on Kaplan turbine and to find out the efficiency	OCT.	06	Dt. 11.10.22, 18.10.22
3	Performance test on Francis turbine and to find out the efficiency	OCT.	06	Dt. 25.10.22
4	Performance test on centrifugal pump and to find out the characteristic curves	Nov.	06	Dt. 01.11.22
5	Direct operation of single &double acting pneumatic cylinder.	Nov.	06	Dt. 15.11.22
6	Operating double acting pneumatic cylinder with quick exhaust valve	Nov.	06	Dt. 22.11.22, 29.11.22
7	Speed control double acting pneumatic cylinder using metering in and metering out circuits.	DEC.	06	Dt. 06.12.22
8	Direct operation of single &double acting hydraulic cylinder	DEC.	06	Dt. 13.12.22, 20.12.22
9	Direct operation of hydraulic motor	JAN.	06	Dt. 03.01.23
10	Speed control double acting hydraulic cylinder using metering in & metering out circuits	JAN.	06	Dt. 10.01.23, 17.01.23

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PRACTICAL LESSION PLAN FOR THE SESSION 2022 - 23

BRANCH:-MECHANICAL ENGG. SEMESTER: 5TH SECTION:- MB2

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

SEMESTER FROM DT. 15.09.2022 TO 21.01.2023 PRACTICAL SUBJECT: CAD/CAM LAB. (PR-3)

CLASS ALLOTTED /WEEK:- 04 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
1	Gib and cutter joint	SEPT.	04	Dt.19.09.22, 22.09.22
2	Screw Jack;	SEPT.	04	Dt.29.09.22, 10.10.22
3	Connecting Rod;	OCT.	04	Dt.13.10.22, 17.10.23
4	Bearing Block	OCT.	04	Dt.20.10.22, 27.10.23
5	Study of CNC lathe, milling;	OCT.	04	Dt.31.10.22, 3.11.22
6	Study of international codes; G-Codes and M –Codes	NOV.	04	Dt.07.11.22, 10.11.22
7	Format –Dimensioning methods;	NOV.	04	Dt.17.11.22, 21.11.22
8	Programme writing –Turning Simulator-Milling simulator IS practice-commands menus	NOV.	04	Dt24.11.22, 28.11.22
9	Editing the programme in the CNC MACHINES	DEC.	04	Dt.01.12.22, 05.12.22
10	Execute the programme in the CNC machines	DEC.	04	Dt.08.12.22, 12.12.22
11	Print the programme and make the component in the CNC machine;	DEC.	06	Dt15.12.22, 19.12.22 22.12.22
12	Using canned cycle-create a part programme for thread cutting, grooving and produce component in the CNC Turning Machine	JAN.	06	Dt.02.01.23, 05.01.23 09.01.23
13	Using Linear interpolation and Circular Interpolation-Create a part programme for grooving and produce component in the CNC Milling Machine	JAN.	08	Dt.12.01.23, 16.01.23 19.01.23

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PRACTICAL LESSION PLAN FOR THE SESSION 2022 - 23

BRANCH:-MECHANICAL ENGG. SEMESTER: 5TH SECTION:- MB2

NAME OF THE FACULTY : (1) ER. TARANISEN MOHANTY (H.O.D., MECH. ENGG.) (2) ER. SATYA NARAYAN MAJHI (LECT. IN MECH. ENGG.)

SEMESTER FROM DT. 15.09.2022 TO 21.01.2023 PRACTICAL SUBJECT: PROJECT WORK (PHASE-I) (PR-4)

CLASS ALLOTTED /WEEK:- 04 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
01	Selection of Projects	SEPT.	15	Dt. 17.09.22, 24.09.22 15.10.22
02	Distribution of Groups	OCT.	15	Dt. 22.10.22, 29.10.22 05.11.22
03	Distribution of project assignment	NOV.	15	Dt. 12.11.22, 19.11.22 26.11.22 03.12.22
04	Seminar & Viva-Voce.	DEC. JAN.	15.	Dt. 10.12.22, 17.12.22 24.12.22, 07.01.23 21.01.23

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