

REFRIGERATION AND CONDITIONING
5th semester.

SL NO	Lecture NO	Lecture module	Lecture Details	Lecture Date	Status
1.	1/1	Air Refrigeration cycle	Definition of refrigeration and unit of refrigeration.	13/09/22	Completed
2.	1/2	-do-	Definition of COP, Refrigerating effect (R.E)	14/09/2022	Completed
3.	1/3	-do-	Principle of working of open and closed air system of refrigeration.	15/09/2022	Completed
4.	1/4	-do-	calculation of COP of Bell-coleman cycle and numerical on it.	16/09/2022	Completed
5.	1/5	-do-	calculation of COP of Bell-coleman cycle and numerical on it.	20/09/2022	Completed
6.	2/1	Simple Vapour compression Refrigeration system	Schematic diagram of simple vapour compression refrigeration system.	21/09/2022	Completed
7.	2/2	-do-	Types of Simple Vapour compression refrigeration system	21/09/2022	Completed
8.	2/3	-do-	cycle with dry saturated vapours after compression.	22/09/2022	Completed
9.	2/4	-do-	cycle with wet vapour after compression.	23/09/2022	Completed
10.	2/5	-do-	cycle with superheated vapour after compression.	27/09/2022	Completed

SL NO	Lecture NO	make	Lecture Details	Lecture Date	Status
11.	2/6	-do-	cycle with superheated vapour before compression.	28/09/2022	Completed
12.	2/7	Simple Vapour Refrig System	cycle with sub cooling of refrigerant	29/09/2022	Completed
13.	2/8	-do-	Representation of above cycle on temperature entropy and pressure entropy diagram.	20/09/2022	Completed
14.	2/9	-do-	Numerical on above (Determination of COP, mass flow)	11/10/2022	Completed
15.	2/10	-do-	Numerical on above (COP, mass flow)	11/10/2022	Completed
16.	3/1	Vapour Absorption System	Simple vapour absorption refrigeration system.	12/10/2022	Completed
17.	3/2	-do-	Practical vapour absorption refrigeration system.	13/10/2022	Completed
18.	3/3	-do-	Practical vapour absorption refrigeration system.	14/10/2022	Completed
19.	3/4	-do-	COP of an ideal vapour absorption refrigeration system.	18/10/2022	Completed
20.	3/5	-do-	COP of an ideal vapour absorption refrigeration system.	19/10/2022	Completed

Lecture Date	Status	Lecture NO.	Module	Lecture details	Lecture Date	Status
09/10/2022	Completed	21	3/6	-do-	20/10/2022	Completed
09/10/2022	Completed	22	3/7	-do-	20/10/2022	Completed
09/10/2022	Completed	23	4/1	Refrigeration, Equipment	21/10/2022	Completed
09/10/2022	Completed	24	4/2	-do-	26/10/2022	Completed
10/10/2022	Completed	25	4/3	-do-	27/10/2022	Completed
1/10/2022	Completed	26	4/4	-do-	28/10/2022	Completed
2/11/2022	Completed	27	4/5	-do-	01/11/2022	Completed
3/11/2022	Completed	28	4/6	-do-	02/11/2022	Completed
4/11/2022	Completed	29	4/7	-do-	03/11/2022	Completed
8/11/2022	Completed	30	4/8	-do-	03/11/2022	Completed
19/11/2022	Completed	31	5/1	Refrigeration controls Application of Refrigeration	04/11/2022	Completed
				capillary tube		

Sl. NO.	Lecture NO.	Module	Lecture Details	Lecture Date	Status
32	5/2	-do-	Automatic Expansion Valve Thermostatic Expansion Valve	09/11/2022	Complete
33	5/3	-do-	Classification of Refrigerants desirable properties of an ideal refrigerant.	10/11/2022	Complete
34	5/4	Refrigerant controls Refrigerant applications of refrigerant	Designation of Refrigerant Thermodynamic properties of Refrigerants	11/11/2022	Complete
35	5/5	-do-	Chemical properties of Refrigerants	15/11/2022	Complete
36	5/6	-do-	Commonly used Refrigerants R-11, R-12, R-22, R-134a. R-717 Substitute for CFC	15/11/2022	Complete
37	5/7	-do-	Cold Storage	16/11/2022	Complete
38	5/8	-do-	Dairy Refrigeration Ice Plant	17/11/2022	Complete
39	5/9	-do-	Water Cooler	18/11/2022	Complete
40	5/10	-do-	Frost free Refrigerator	22/11/2022	-do-
41	6/1	Psychrometric AIR conditioning effects	Psychrometric Terms	22/11/2022	-do-
42	6/2	-do-	Adiabatic Saturation of air by evaporation of water.	23/11/2022	Complete
43	6/3	-do-	Psychrometric chart and uses.	24/11/2022	Complete
44	6/4	-do-	Sensible heating and cooling cooling and dehumidification	25/11/2022	Complete

Sb. No. Lec. No. Module No.

Lecture Details.

1.	1/1	Introduction to mechatronics.	Definition of mechatronics	1
2.	1/2	-do-	Advantages & disadvantages of mechatronics application of mechatronics.	2
3.	1/3	-do-	Scope of mechatronics in Industrial sector.	3
4.	1/4	-do-	Components of mechatronic system	4
5.	1/5	-do-	Importance of mechatronics in automation.	5
6.	2/1	Sensors and Transducers	Definition of Transducer	6
7.	2/2	-do-	Classification of transducers	7
8.	2/3	-do-	Electromechanical Transducers	8
9.	2/4	-do-	Transducers Actuating mechanism	9
10.	2/5	-do-	Transducers Actuating mechanism	10
11.	2/6	-do-	Transducers Actuating mechanism	11
12.	2/7	-do-	Displacement & position sensors	12
13.	2/8	-do-	Velocity motion sensors	13
14.	2/9	-do-	Force and pressure sensors	14
15.	2/10	-do-	Temperature & weight sensors	15

Sl. NO.	Lect. NO.	module	Lecture. Details	Lecture Date	Status
16.	3/1	ACTUAL MECHANICAL ELECTRICAL	machine, kinematic Link, kinematic Pair, mechanism.	14/10/2022	Completed
17.	3/2	-do-	Slider crank mechanism, drive	17/10/2022	Completed
18.	3/3	-do-	Spur gear, Bevel gear, Helical gear, worm gear.	18/10/2022	Completed
19.	3/4	-do-	Belt & Belt Drive, Bearings	20/10/2022	Completed
20.	3/5	-do-	Switches and relay, solenoid	21/10/2022	Completed
21.	3/6	-do-	D.C. MOTORS	27/10/2022	Completed
22.	3/7	-do-	A.C. MOTORS	28/10/2022	Completed
23.	3/8	-do-	STEPPER MOTORS	31/10/2022	Completed
24.	3/9	-do-	Specification and control of Stepper motors	01/11/2022	Completed
25.	3/10	-do-	Servo motors D.C & A.C	03/11/2022	Completed
26.	4/1	Programmable logic controller (PLC)	Introduction	04/11/2022	Completed
27.	4/2	-do-	Advantages of PLC	10/11/2022	Completed
28.	4/3	-do-	Selection and use of PLC	11/11/2022	Completed
29.	4/4	-do-	Selection and use of PLC.	15/11/2022	Completed
30.	4/5	-do-	Architecture basic interconnection structure	17/11/2022	Completed

Sl. No.	Lead No.	Module	Lecture Details	Lecture Date	Status
31	4/6	Programmable Logic Control	Architecture basic internal structures.	18/11/2022	Completed
32	4/7	-do-	Architecture basic internal structures.	21/11/2022	Completed
33	4/8	-do-	Input/output processing and programming	22/11/2022	Completed
34	4/9	-do-	Input/output processing and programming	29/11/2022	Completed
35	4/10	-do-	Input/output processing and programming	25/11/2022	Completed
36	4/11	-do-	mnemonics	28/11/2022	Completed
37	4/12	-do-	mnemonics	29/11/2022	Completed
38	4/13	-do-	master and jump controllers	01/12/2022	Completed
39	4/14	-do-	master and jump controllers	02/12/2022	Completed
40	4/15	-do-	master and jump controllers	05/12/2022	Completed
41	5/1	Elements of CNC machine	NC machines	06/12/2022	Completed
42	5/2	-do-	CNC machines	08/12/2022	Completed
43	5/3	-do-	CAD, CAM	09/12/2022	Completed
44	5/4	-do-	Software and hardware for CAD/CAM	12/12/2022	Completed
45	5/5	-do-	functioning of CAD/CAM system.	13/12/2022	Completed
46	5/6	Element of CNC machine	Features and characteristics of CAD/CAM system.	15/12/2022	Completed
47	5/7	-do-	Application areas for CAD/CAM	16/12/2022	Completed

Sl No	Lect No	module	Lecture details	Lecture Date	Status
48	5/8	-do-	Elements of CNC machines	19/12/2022	Completed
49	5/9	-do-	machine structure	20/12/2022	Completed
50	5/10	-do-	Introduction and TYPES of Guide ways	02/01/2023	Completed
51	5/11	-do-	factors of design of guide ways	03/01/2023	Completed
52	5/12	-do-	Introduction to Drives	05/01/2023	Completed
53	5/13	-do-	Spindle Drives	06/01/2023	Completed
54	5/14	-do-	Feed Drive	09/01/2023	Completed
55	5/15	-do-	Spindle and Spindle Bearings	10/01/2023	Completed
56	6/1	Robotics	Definition, function and laws of Robotics	12/01/2023	Completed
57	6/2	-do-	TYPES of Industrial Robots	13/01/2023	Completed
58	6/3	-do-	Robotic systems	16/01/2023	Completed
59	6/4	-do-	Robotic systems	17/01/2023	Completed
60	6/5	-do-	Advantages and Disadvantages of Robots	19/01/2023	Completed

DESIGN OF MACHINE ELEMENTS

5th semester

S. No	Lect No	Module	Lecture Details	Lecture Date	Status
1.	1/1	Introd uction	Introduction to machine design and classify it.	12/09/2022	Completed
2.	1/2	-do-	Introduction to machine Design and classify it.	13/09/2022	Completed
3.	1/3	-do-	Different mechanical Engg. materials Used in design with their uses and their mechanical and Physical properties.	14/09/2022	Completed
4.	1/4	-do-	Different mechanical Engg. materials Used in design with their uses and their mechanical and physical properties.	16/09/2022	Completed
5.	1/5	-do-	Define working stress yield stress ultimate stress & factor of safety and stress - strain curve for M.S & C.I	19/09/2022	Completed
6.	1/6	-do-	Define working stress yield stress ultimate stress & factor of safety and stress - strain curve. for. MS & C.I	20/09/2022	Completed
7.	1/7	-do-	modes of failure	21/09/2022	Completed
8.	1/8	-do-	modes of failure	23/09/2022	Completed
9.	1/9	-do-	State the factors governing the design of machine elements.	26/09/2022	Completed
10.	1/10	-do-	State the factors governing the design of machine elements.	27/09/2022	Completed
11.	1/11	INTN	Describe design procedure	28/09/2022	Completed
12.	1/12	INTN	Describe design procedure.	30/09/2022	Completed

Sl. No.	Lec. No.	Mod. No.	Lecture Details	Lecture Date	Status
13	2/1	DESIGN OF FASTENING ELEMENT	Joints and their classification	10/10/2022	Completed
14	2/2	-do-	State types of welded joints	11/10/2022	Completed
15	2/3	-do-	State types of welded joints	12/10/2022	Completed
16	2/4	-do-	State advantages of welded joints over other joints	14/10/2022	Completed
17	2/5	-do-	Design of welded joints for eccentric loads	17/10/2022	Completed
18	2/6	-do-	Design of welded joints for eccentric loads	18/10/2022	Completed
19	2/7	-do-	State types of riveted joints and types of rivets	19/10/2022	Completed
20	2/8	-do-	Describe failure of riveted joints	21/10/2022	Completed
21	2/9	-do-	Determine strength & efficiency of riveted joints.	24/10/2022	Completed
22	2/10	-do-	Design of riveted joints for pressure vessel.	25/10/2022	Completed
23	2/11	-do-	Solve numerical on welded joints and riveted joints	26/10/2022	Completed
24	2/12	-do-	Solve numerical on welded joints and riveted joints	28/10/2022	Completed
25	3/1	DESIGN OF SHAFT AND KEYS	State function of shafts	31/10/2022	Completed

Sl No	Mod No	Module	Lecture Details	Lecture Date	Status
26	3/2	-do-	State materials for shafts	01/11/2022	Completed
27	3/3	-do-	Design of solid & hollow shafts to transmit a given power at given RPM based on a strengthwise	02/11/2022	Completed
28	3/4	-do-	(i) shear stress (ii) combined bending tension (b) rigidity (c) Angle of twist (ii) Deflection (iii) modulus of rigidity.	04/11/2022	Completed
29	3/5	-do-	State standard size of shaft as per IS	07/11/2022	Completed
30	3/6	-do-	State function of keys types of keys & material of keys.	08/11/2022	Completed
32	3/7	-do-	Describe failure of key, effect of keyway.	09/11/2022	Completed
32	3/8	-do-	Design rectangular sunk key considering its failure against shear and crushing.	11/11/2022	Completed
33	3/9	-do-	Design rectangular sunk key by using empirical relation for given diameter of shaft.	14/11/2022	Completed
34	3/10	-do-	State specification of parallel key gib head key, taper key.	15/11/2022	Completed
35	3/11	-do-	Solve numerical or design of shaft and keys.	16/11/2022	Completed
36	3/12	-do-	Solve numerical or design of shaft and keys.	18/11/2022	Completed

Q No	Lect No	Module	Lecture Details	Lecture Date	Status
37	4/1	Design of Coupling	Design of shaft coupling	21/11/2022	Completed
38	4/2	-do-	Design of shaft coupling	22/11/2022	Completed
39	4/3	-do-	Design of requirements of a good shaft coupling	23/11/2022	Completed
40	4/4	-do-	Requirements of a good shaft coupling.	25/11/2022	Completed
41	4/5	-do-	Types of coupling	28/11/2022	Completed
42	4/6	-do-	Types of coupling	29/11/2022	Completed
43	4/7	-do-	Design of sleeve & nut coupling	30/11/2022	Completed
44	4/8	-do-	Design of sleeve & nut coupling	02/12/2022	Completed
45	4/9	-do-	Design of clamp on compression	05/12/2022	Completed
46	4/10	-do-	Design of clamp on compression	06/12/2022	Completed
47	4/11	-do-	Solve simple numerical on above	07/12/2022	Completed
48	4/12	-do-	Solve simple numerical on above	09/12/2022	Completed
49	5/1	Design of helical spring	materials used for helical spring materials used for helical spring.	12/12/2022	Completed
50	5/2	-do-	materials used for helical spring	13/12/2022	Completed
51	5/3	-do-	Terms used in compression spring.	14/12/2022	Completed
52	5/4	-do-	Standard size spring wire (SWG)	19/12/2022	Completed

SL NO	LECT NO	MODULE	Lecture Details	Lecture Date	Status
53	5/5	-do-	Standard size spring wire (circ)	16/12/2022	Complete
54	5/6	-do-	Stress in helical spring of a circular wire.	19/12/2022	Complete
55	5/7	-do-	Stress in helical spring of a circular wire.	20/12/2022	Complete
56	5/8	-do-	Deflection of helical spring of wire circular.	21/12/2022	Complete
57	5/9	-do-	Deflection of helical spring of wire circular.	23/12/2022	Complete
58	5/10	-do-	Surge in spring	26/12/2022	Complete
59	5/11	-do-	Solve numerical on design of closed coil helical compression spring.	28/12/2022	Complete
60	5/12	-do-	Solve numerical on design of closed coil helical compression spring.	30/12/2022	Complete

HYDRAULIC MACHINES
& INDUSTRIAL FLUID POWER
5th SEMESTER

Lect. NO	module	Lecture details	Lecture Date	status
1/1	Hydrau turbines	Definition and classification of Hydraulic turbines	12/09/2022	complete
1/2	-do-	Definition and classification of Hydraulic turbines.	14/09/2022	-do-
1/3	-do-	construction and working principle of construction and working impulse turbine.	15/09/2022	-do-
1/4	-do-	construction working principles Impulse turbine.	16/09/2022	-do-
1/5	-do-	velocity diagram of moving blades ; various efficiencies of Impulse turbine.	19/09/2022	-do-
1/6	-do-	velocity diagram of moving blades various efficiencies of Impulse turbine.	21/09/2022	-do-
1/7	-do-	velocity diagram of moving blades various efficiencies of Francis turbine.	22/09/2022	-do-
1/8	-do-	velocity diagram of moving blades various eff of Francis turbine	23/09/2022	-do-
1/9	-do-	velocity dia of moving blades various eff of Kaplan turbine	26/09/2022	-do-
1/10	-do-	velocity diagram of moving blades various efficiencies of Kaplan turbine.	28/09/2022	-do-
11.	1/11	-do- Numerical on above.	29/09/2022	-do-
12.	1/12	-do- Numerical on above.	30/09/2022	-do-
13.	1/13	-do- Numerical on above.	10/10/2022	-do-
			12/10/2022	-do-

Sl No	Lec No	module	Lecture details	Lecture Date	Status
14	1/14	-do-	Distinguish betw impulse turbine and reaction turbine	13/10/2022	Completed
15	1/15	-do-	Distinguish betw impulse turbine and reaction turbine.	14/10/2022	Completed
16	2/1	centrifugal pumps	construction and working principle of centrifugal pumps	17/10/2022	Completed
17	2/2	-do-	construction and working principle of centrifugal pumps	19/10/2022	Completed
18	2/3	-do-	work done and derivation of various efficiencies of centrifugal pumps.	20/10/2022	Completed
19	2/4	-do-	work done and der. of various efficiencies of centrifugal pumps	21/10/2022	Completed
20	2/5	-do-	Numerical on above	26/10/2022	Completed
21	3/1	pneumatic control system	Elements - filter - regulator - lubrication unit.	27/10/2022	Completed
22	3/2	-do-	Elements - filter - regulator - lubrication unit.	28/10/2022	Completed
23	3/3	-do-	Pressure control valves	31/10/2022	Completed
24	3/4	-do-	Pressure relief valves	02/11/2022	Completed
25	3/5	-do-	Pressure regulation valves	03/11/2022	Completed
26	3/6	-do-	Direction control valves	04/11/2022	Completed

SL NO	Lect NO	modul	Lecture Details	Lecture Date	Status
27	3/7	-do-	3/2 DCU, 5/2 DCU, 5/3 DCU	07/11/2022	Completed
28	3/8	-do-	3/2 DCU, 5/2 DC, 5/3 DCU	09/11/2022	Completed
29	3/9	-do-	Flow control valves	10/11/2022	Completed
30	3/10	-do-	Throttle valves	11/11/2022	Completed
31	3/11	-do-	Fluid power pumps	16/11/2022	Completed
32	3/12	-do-	External and Internal gear pumps	17/11/2022	Completed
33	3/13	-do-	Vane pump	18/11/2022	Completed
34	3/14	-do-	Radial piston pumps	21/11/2022	Completed
35	3/15	-do-	ISO symbols for components	23/11/2022	Completed
36	3/16	-do-	ISO symbols for pneumatic components	24/11/2022	Completed
37	3/17	-do-	Actuators	25/11/2022	Completed
38	3/18	-do-	Hydraulic circuits direct control of single acting cylinder	28/11/2022	Completed
39	3/19	-do-	Operation of double acting cylinder	30/11/2022	Completed
40	3/20	-do-	Operation of double acting cylinder with metering	01/12/2022	Completed
41	4/1	Hydraulic control system	Hydraulic system its merits and demerits	02/12/2022	Completed
42	4/2	-do-	Hydraulic accumulators	05/12/2022	Completed

Sl NO	Lea NO	module	Lecture Details	Lecture Date	Status
43	4/3	-do-	Pressure control valves	07/12/2022	Completed
44	4/4	-do-	Pressure relief valves	08/12/2022	Completed
45	4/5	-do-	Pressure regulation valves	09/12/2022	Completed
46	4/6	-do-	Direction control valves	12/12/2022	Completed
47	4/7	-do-	3/2 DCV, 5/2 DCV, 5/3 DCV	14/12/2022	Completed
48	4/8	-do-	3/2 DCV, 5/2 DCV, 5/3 DCV	15/12/2022	Completed
49	4/9	-do-	Flow control valves	16/12/2022	Completed
50	4/10	-do-	External and internal gear pumps.	19/12/2022	Completed
51	4/11	-do-	Vane pump	21/12/2022	Completed
52	4/12	-do-	Radial piston pumps.	22/12/2022	Completed
53	4/13	-do-	ISO symbols for hydraulic components	23/12/2022	Completed
54	4/14	-do-	Actuators	26/12/2022	Completed
55	4/15	-do-	Hydraulic circuits	28/12/2022	Completed
56	4/16	-do-	Direct control of single acting cylinder.	29/12/2022	Completed
57	4/17	-do-	Operation of double acting cylinder.	30/12/2022	Completed
58	4/18	-do-	Operation of double acting cylinder with metering	02/01/2023	Completed
59	4/19	-do-	Comparison of hydraulic and pneumatic system.	04/01/2023	Completed
60	4/20	-do-	Comparison of hydraulic and pneumatic system.	05/01/2023	Completed

ENTREPRENEURSHIP AND
MANAGEMENT & SMART TECHNOLOGY
5TH SEMESTER

Sl. NO.	Lect. NO.	module	Lecture Details	Lecture Date	Status
1.	1/1	Entrepreneurship	concept meaning of Entrepreneurship.	12/09/2022	Completed
2.	1/2	-do-	Need for entrepreneurship	13/09/2022	Completed
3.	1/3	-do-	Characteristics qualities and types of Entrepreneurship functions.	14/09/2022	Completed
4.	1/4	-do-	Barriers in Entrepreneur.	15/09/2022	Completed
5.	1/5	-do-	Entrepreneur management.	20/09/2022	Completed
6.	1/6	-do-	Sole proprietorship Partnership, Partnership forms funn.	21/09/2022	Completed
7.	1/7	-do-	Sole proprietorship Partnership Partnership forms funn	22/09/2022	Completed
8.	1/8	-do-	Types of Industries concept of startups.	26/09/2022	Completed
9.	1/9	-do-	Entrepreneurship support agencies at national state Dist level, DTE, NSIE, OSTE, SIDBI, NABARD	27/09/2022	Completed
10.	1/10	-do-	commercial banks aet etc Technology Business incubators and science and technology Entrepreneur parks.	28/09/2022	Completed
11.	2/1	Market survey and opportunity identification.	Business planning	29/09/2022	Completed

Lecture No.	Module	Lecture details	Lecture date	Status
12	-do-	SSI, Ancillary units	10/10/2022	Completed
13	-do-	Tiny units, service sector units	11/10/2022	Completed
14	-do-	Tiny schedule plane	12/10/2022	Completed
15	-do-	Agencies to be contacted for project implementation.	12/10/2022	Completed
16	-do-	Assessment of Demand and supply and potential Area growth.	17/10/2022	Completed
17	-do-	Identifying suitable opportunities	18/10/2022	Completed
18	-do-	Final product selection.	19/10/2022	Completed
19	Project report Preparation	Preliminary project report	20/10/2022	Completed
20	-do-	Details project report.	24/10/2022	Completed etc
21	-do-	Techno economic feasibility	25/10/2022	Completed
22	-do-	Project viability	26/10/2022	Completed
23	management Principles	Definitions of management.	27/10/2022	Completed
24	-do-	Principles of management.	28/10/2022	Completed etc
25	-do-	function of management planning, organising, staffing.	31/10/2022	Completed
26	-do-	Directing and controlling etc.	01/11/2022	Completed

Status	Sl. No	Lect. No.	Module	Lecture details	Lecture Date	Status
Completed	27	4/5	-do-	Level of management in an organisation.	02/11/2022	Completed
Completed	28	5/1	function	Production management	03/11/2022	Completed
Completed			Areas of management			
Completed	29	5/2	-do-	Functions, Activities	07/11/2022	Completed
Completed	30	5/3	-do-	production; quality control, inventory management.	09/11/2022	Completed
	32	5/4	-do-	Need for inventory management	10/11/2022	Completed
Completed	32	5/5	-do-	models / techniques of inventory management.	15/10/2022	Completed
Completed	34	5/6	-do-	financial management; Functions of financial management working capital.	17/11/2022	Completed
Completed	34	5/7	-do-	Break even Analysis Accounting Terminology Book Keeping Journal entries Petty cash book.	21/11/2022	Completed
Completed	35	5/8	-do-	P&L Accounts Balance sheet concept of marketing marketing managements.	22/11/2022	Completed
Completed	36	5/9	-do-	market technique concept of HR function personal management man power requirement	23/11/2022	Completed
Completed	37	5/10	-do-	Selection, process, method of testing, method of training & development payment of wages.	24/11/2022	Completed

Sl NO	lect NO	module.	Lecture Details	Lecture Date	Sta
39	6/1	Leadership and motivation	Leadership Definition and need / importance, qualities and a leader.	22/11/2022	Compl
40	6/2	- do -	manager vs leader, skt of leadership motivation, def'n and characteristics.	29/11/2022	Compl
41	6/3	- do -	Importance of motivation factors affecting motivation.	30/11/2022	Compl
42	6/4	- do -	Theories of motivation (Maslow)	01/12/2022	Compl
43	6/5	- do -	Importance of communication in business.	05/12/2022	Compl
44	6/6	- do -	Types and Barriers of communication.	06/12/2022	Compl
45	7/1	Work culture TQM & Safety	Human relationship and performance in organization.	07/12/2022	Compl
46	7/2	- do -	Relations with peers, superiors and subordinates.	08/12/2022	Compl
47	7/3	- do -	TQM concepts: quality policy, quality management, quality system.	13/12/2022	Compl
48	7/4	- do -	Accidents and Safety; cause, preventive measures, General Safety Rules, Personal Protection Equipment (PPE)	14/12/2022	Compl

Lecture Date	Status	Sl No	Lect NO	module	Lecture Details	Lecture Date	Status
22/11/2022	Completed	49	7/5	-do-	Preventive measure safety rule. - personal protection equipment	15/12/2022	Completed
29/11/2022	Completed	50	8/1	Legislation	Intellectual property rights	19/12/2022	Completed
		51	8/2	-do-	patents trademarks, copyright	20/12/2022	Completed
		52	8/3	-do-	Features of Factories Act 1948	21/12/2022	Completed
30/11/2022	Completed	53	8/4	-do-	features of Payment of wages	22/12/2022	Completed
01/12/2022	Completed	54	8/5	-do-	Payment of wages Act 1936	26/12/2022	Completed
05/12/2022	Completed	55	8/6	-do-	Payment of wages Act 1936	27/12/2022	Completed
06/12/2022	Completed	56	9/1	Smart Technology	Concept of IOT How IOT works.	28/12/2022	Completed
07/12/2022	Completed	57	9/2	-do-	Components of IOT characteristics of IOT, categories of IOT.	29/12/2022	Completed
		58	9/3	-do-	Application of IOT - smart cities, smart transportation smart home.	02/01/2023	Completed
08/12/2022	Completed	59	9/4	-do-	smart healthcare.	03/01/2023	Completed
09/12/2022	Completed	60	9/5	-do-	Smart Industry smart agri - culture.	04/01/2023	Completed
			9/6	-do-	Smart Energy management etc.	05/01/2023	Completed
14/12/2022	Completed						

Hydraulic Machine

And

Industrial Fluid

Power

Sl No	Practical No	Module	Practical details	Practical Date	Status
1	1/1		Performance test on impulse turbine and to find out the efficiency.	13/09/2022	Completed
2	1/2		performance test on impulse turbine and to find out the efficiency.	16/09/2022	Completed
3	1/2		Performance test on impulse turbine and to find out the efficiency.	20/09/2022	Completed
4	2/1		Performance test on Kaplan turbine and to find out the efficiency.	23/09/2022	Completed
5	2/2		performance test on Kaplan turbine and to find out the efficiency.	27/09/2022	Completed
6	2/2		performance test on Kaplan turbine and to find out the efficiency.		
7	3/1		Performance test on Francis turbine and to find out the efficiency.	30/09/2022	Completed
8	3/2		performance test	11/10/2022	Completed

Sl. No	Practise No	Practical Details	Practise Date	Status
		on Francis's turbine and to find out the efficiency		
9	3/3	performance test on Francis's turbine and to find out the efficiency	14/10/2022	Completed
10	4/1	performance test on centrifugal pump and to find out the characteristic curve	18/10/2022	Completed
11	4/2	performance test on centrifugal pump and to find out the characteristic curve	21/10/2022	Completed
12	4/3	performance test on centrifugal pump and to find out the characteristic curve	28/10/2022	Completed
13	5/1	Direct operation on single and double acting pneumatic cylinder	02/11/2022	Completed

Sl. No.	Practical No.	Module	Practical Details	Practical Date	Status
14	5/2		Direct operation of single and double acting pneumatic cylinder	05/11/2022	Completed
15	5/3		Direct operation of single and double acting pneumatic cylinder.	11/11/2022	Completed
16	6/1		Operating Double acting pneumatic cylinder with quick exhaust valve	15/11/2022	Completed
17	6/2		Operating double acting pneumatic cylinder with quick exhaust valve	18/11/2022	Completed
18	6/3		Operating double acting pneumatic cylinder with quick exhaust valve	22/11/2022	Completed
19	7/1		Speed control double acting pneumatic cylinder using meter in and meter out circuits	25/11/2022	Completed

Sl No	Practical No	Module	practical Details	Practical Date	Status
20	7/2		speed control double acting pneumatic cylinder using meter in in and meter out out circuits	29/11/2022	Completed
21	7/3		speed control double acting pneumatic cylinder using meter in and meter out circuits	02/12/2022	Completed
22	8/1		Direct operation of single and double acting hydraulic cylinder	06/12/2022	Completed
23	8/2		Direct operation of single and double acting hydraulic cylinder	09/12/2022	Completed
24	8/3		Direct operation of single and double acting Hydraulic cylinder	13/12/2022	Completed

Sl. No.	Practical No	Module	Practical details	Practical Date	Status
25	9/1		Direct operation of hydraulic motor	16/12/2022	Completed
26	9/2		Direct operation of hydraulic motor	20/12/2022	Completed
27	9/3		Direct operation of hydraulic motor.	23/12/2022	Completed
28	10/1		speed control double acting hydraulic cylinder using metering in and metering out circuits.	27/12/2022	Completed
29	10/2		speed control double acting hydraulic cylinder using metering in and metering out circuits	03/01/2023	Completed
30	10/2		speed control double acting hydraulic cylinder using metering in and metering out circuits	06/01/2023	Completed

REFRIGERATION AND
AIR CONDITIONING LAB

SCH No	Practical No	Module	Practical Details	Practical Date	Status
1	1/1		Study the construction features of Domestic Refrigerator	12/09/2022	Completed
2	1/2		Study the Construction Features of Domestic Refrigerator	12/09/2022	Completed
3	1/3		Study the construction features of domestic refrigerator	14/09/2022	Completed
4	2/1		Study the construction of water coolers	14/09/2022	Completed
5	2/2		Study the construction features of water cooler	14/09/2022	Completed
6	2/2		Study the construction features of water cooler	26/09/2022	Completed
7	3/1		Study the construction features of window Air conditioner	26/09/2022	Completed
8	3/2		Study the construction features of window Air conditioner	10/10/2022	Completed

SC No.	Practical No.	Module	Practical Details	Practical Date	Status
Completed	9	3/3	Study the Construction Features of window air conditioner	10/10/2022	Completed
Completed	10	4/1	Study the Construction Features of split air conditioner	17/10/2022	Completed
Completed	11	4/2	Study the Construction Features of split Air conditioner	17/10/2022	Completed
Completed	12	4/3	Study the Construction Features of split air conditioner	31/10/2022	Completed
Completed	13	5/1	Determine the capacity and COP of vapour Compressor Refrigerator test Rig	31/10/2022	Complete
Completed	14	5/2	Determine the Capacity and COP of vapour compressor Refrigerator test Rig	31/10/2022	Completed
Completed	15	5/3	Determine the Capacity and COP of vapour Compressor refrigerator test rig	07/11/2022	Completed

Sl No	Practical No	Module	Practical Details	Practical Date	Status
16	6/1		Determine the Capacity and Cop of water Cooler	07/11/2022	Completed
17	6/2		Determine the Capacity and Cop of water Cooler	21/11/2022	Completed
18	6/3		Determine the Capacity and Cop of water cooler	21/11/2022	Completed
19	7/1		Determine the capacity and Cop of window air conditioner	25/11/2022	Completed
20	7/2		Determine the Capacity and Cop of window air conditioner	28/11/2022	Completed
21	7/3		Determine the Cop of window air conditioner	05/12/2022	Completed
22	8/1		Determine the Capacity and Cop of split air conditioner	05/12/2022	Completed
23	8/2		Determine the Capacity and Cop of	05/12/2022	Completed

Sl. No	Practical No	Module	Practical Details	Practical Date	Status
			split air conditioner		
24	8/3		Determine the capacity and COP of split air conditioner.	12/12/2022	Completed
25	9/1		Determine the capacity and COP of vapour Absorption Refrigerator test Rig.	19/12/2022	Completed
26	9/2		Determine the capacity and COP of vapour Absorption Refrigerator test Rig.	19/12/2022	Completed
27	9/3		Determine the capacity and COP of vapour Absorption Refrigerator test Rig.	26/12/2022	Completed
28	10/1		Complete charging of a domestic refrigerator and its leak test.	02/01/2023	do-
29	10/2		Complete charging of a domestic refrigerator and its leak test.	09/01/2023	do-
30	10/3		Complete the charging of a domestic refrigerator and its leak test.	16/01/2023	do-

CAD / CAM
CNC

Sl No	Practical No	Module	Practical Details	Practical Dt	Status
			File and Cutter		
16	2/5	- do -	Screen Jawn	16/11/2022	Completed
17	2/6	- do -	Connecting Rod	16/11/2022	Completed
18	2/7	- do -	Bearing Block	18/11/2022	Completed
19	3/1	PART (B) CNC Programming and Machining	Study of CNC Lathe	23/11/2022	Completed
20	3/2	- do -	Milling	25/11/2022	Completed
21	3/3	- do -	Study of International G Code	30/11/2022	Completed
22	3/4	- do -	G code M Code	02/12/2022	Completed
23	3/5	- do -	Format Dimensioning Method	07/12/2022	Completed
24	3/6	- do -	Programme writing Running simulator	08/12/2022	Completed
25	3/7	- do -	Millier simulator Its practical Commands Menu	14/12/2022	Completed

Sl No	Practical No	Module	Practical Details	Practical Dd	Status
26	3/8	- do -	Editing the program in the CNC Machine	16/12/2022	Completed
27	3/9	- do -	Execute the program in the CNC Machine	21/12/2022	Completed
28	4/1	exercise	print the programme and Make the component in the CNC Machine	23/12/2022	Completed
29	4/2	- do -	Using canned cycle, create a programme for thread cutting grooving and produce component in the CNC turning machine	28/12/2022	Completed
30	4/3	- do -	Using linear Interpolation and circular interpolation create a part programme for Grooving and produce component	30/12/2022	Completed

ENGINEERING MATHEMATICS - II
2nd Semester