



DEPARTMENT OF MECHANICAL ENGINEERING
GOVERNMENT CO-ED POLYTECHNIC, JAGDALPUR
Near RTO office Aadawal, Jagdalpur, Bastar (C.G) - 494001
Email: mechanical.gcpb@gmail.com

DEPARTMENT OF MECHANICAL ENGINEERING

LESSON PLAN

SESSION: NOV. – DEC. 2025

Name of Faculty: Shailesh Sidar

Subject: Thermal Engineering

Subject Code: 2037373(037)

Semester: Diploma 3rd Sem

Text Books

Thermal Engineering : Bhandari V. B.

Thermal Engineering : Khurmi R. S.

TOTAL CLASS SCHEDULED:

66

Faculty Signature

HOD Signature

TOPIC	Planned Date	NO. OF PERIODS (HOURS)	Remark
Unit-1.0 Basics Concepts of thermodynamics		15	
Definition and importance of Thermodynamics, Introduction to thermodynamic systems and properties.	7.10.25 to 7.11.25	1	
Types of thermodynamic systems - open, closed and isolated systems with examples.		1	
Concept of work, heat and energy in thermodynamic systems.		1	
Thermodynamic equilibrium and quasi-static process.		1	
Work done during quasi-static process and Zeroth law of thermodynamics.		1	
First law of thermodynamics - statement and explanation.		1	
Applications of first law of thermodynamics.		1	
Steady Flow Energy Equation (SFEE) - concept and derivation.		1	
Applications of SFEE to boiler, engine, turbine, compressor.		1	
Thermodynamic processes and representation on P-V diagram.		1	
Representation of processes on T-S diagram and simple numerical problems.		1	
Limitations of first law and introduction to second law of thermodynamics.		1	
Second law - Kelvin-Planck and Clausius statements.		1	
Heat reservoir, heat source and sink, heat engine, heat pump and refrigerator, Carnot cycle.		1	
Entropy, Clausius inequality, principle of increase of entropy and entropy change calculations.		1	

TOPIC	Planned Date	NO. OF PERIODS (HOURS)	Remark
Unit-2.0 Air Standard Cycles and internal combustion engines		10	
Air standard cycles - definition and purpose of air standard cycles	8.10.25 to 25.10.25	1	
Otto cycle - representation on P-V and T-S diagrams		1	
Diesel cycle - representation on P-V and T-S diagrams		1	
Derivation of air standard efficiency of Otto cycle		1	
Derivation of air standard efficiency of Diesel cycle, comparison and limitations		1	
Internal combustion engine - introduction and classification of IC engines		1	
IC engine components and their functions		1	
Working of two-stroke and four-stroke engines and their comparison		1	
Indicator diagram and calculation of IP, BP and FP		1	
Thermal efficiency, mechanical efficiency, relative efficiency, pollution and emission norms		1	

TOPIC	Planned Date	NO. OF PERIODS (HOURS)	Remark
Unit-3.0 Pure substances		08	
Pure substance, phase and phase changes.	27.10.25 to 9.12.25	1	
Steam as a two-phase system and steam formation.		1	
Representation of steam on P-V diagram.		1	
Representation of steam on T-S diagram.		1	
Representation on H-S (Mollier) diagram.		1	
Wet, dry and saturated steam concepts.		1	
Dryness fraction of steam and simple calculations.		1	
Steam table usage and safety precautions in handling steam.		1	

TOPIC	Planned Date	NO. OF PERIODS (HOURS)	Remark
Unit-4.0 Ideal Gases and Ideal Gas Processes		10	
Avogadro's law and basic gas laws.	11.12.25 to 30.12.25	1	
Derivation of characteristic gas equation using Boyle's and Charles's law.		1	
Characteristic gas constant and universal gas constant.		1	
Simple numerical problems based on gas laws.		1	
Isobaric process and representation on P-V and T-S diagrams.		1	
Isochoric process and representation on diagrams.		1	
Isothermal process and work done.		1	
Isentropic process and entropy change.		1	
Polytropic process and thermodynamic relations.		1	
Throttling process and applications.		1	

TOPIC	Planned Date	NO. OF PERIODS (HOURS)	Remark
Unit-5.0 Air Compressors		10	
Basics of compression and industrial uses of compressed air.	1.1.26 to 17.1.26	1	
Classification of air compressors.		1	
Construction and working of reciprocating compressor.		1	
Construction and working of centrifugal compressor.		1	
Work done in single stage reciprocating compressor.		1	
Volumetric efficiency of compressor.		1	
Isothermal efficiency of compressor.		1	
Isentropic efficiency of compressor.		1	
Multistage compression and intercooling.		1	
Safety precautions in handling compressed air.		1	

TOPIC	Planned Date	NO. OF PERIODS (HOURS)	Remark
Unit-6.0 Heat Transfer		11	
Modes of heat transfer – conduction, convection and radiation.	20.1.26 to 31.1.26	1	
Terms related to heat transfer – thermal conductivity, heat flux, thermal resistance.		1	
Thermal diffusivity and heat transfer coefficient.		1	
Fourier's law of heat conduction and temperature gradient.		1	
Heat transfer through flat plate by conduction.		1	
Engineering applications of conduction.		1	
Newton's law of cooling and convection heat transfer.		1	
Natural and forced convection with applications.		1	
Stefan-Boltzmann law of radiation.		1	
Radiation properties – absorptivity, reflectivity, transmissivity, emissivity.		1	
Black body, grey body and emissive power.		1	



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DEPARTMENT OF MECHANICAL ENGINEERING

Lesson Plan / Teacher's Diary

Session: Nov - Dec 2025

Name of Faculty: Rakesh Kumar Ray

Subject: Machine Drawing & Computer Aided Drafting

Subject Code: 2037374(037)

Branch & Semester: Mechanical Engineering & Diploma 3rd Sem

Faculty Signature (Rakesh Kumar Ray)

HOD Signature

Principal
Govt. Co-Ed Polytechnic
Jagdalpur, Aadawal



DEPARTMENT OF MECHANICAL ENGINEERING

Government Co-Ed Polytechnic Jagdalpur

Session - Nov - Dec. 2025

LESSON PLAN / TEACHER'S DIARY

Name Of Faculty: Rakesh Kumar Ray

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Branch & Semester: Mechanical Engineering & Diploma in 3rd Semester

Subject Code: 2037374(037)

LECT. NO.	UNIT NO.	TOPIC TO BE COVERED	PLANNED DATE	EXECUTION DATE	REMARKS
		UNIT-1 INTERSECTION OF SOLIDS			
1	1	Curves of intersection of surfaces of the regular solids	4.10.25 - 20.10.25	4.10.2025	
2		Prism with prism (Triangular and square)		8.10.2025	
3		Cylinder with cylinder		10.10.2025	
4		Cylinder with cylinder		13.10.2025	
5		Square Prism with Cylinder		14.10.2025	
6		Square Prism with Cylinder		15.10.2025	
7		Cylinder with Cone		24.10.2025	
8		Cylinder with Cone		28.10.2025	

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LECT. NO.	UNIT NO.	TOPIC TO BE COVERED	PLANNED DATE	EXECUTION DATE	REMARKS
		UNIT-2 DEVELOPMENT OF SURFACE			
9	2	Introduction Development of Lateral surfaces of objects.	21.10.25 - 5.11.25	29.10.2025	
10		Development of Lateral surfaces of cylinder		30.10.2025	
11		Development of Lateral surfaces of cylinder		3.11.2025	
12		Development of Lateral surfaces of cone		7.11.2025	
13		Development of Lateral surfaces of cone		8.11.2025	
14		Development of Lateral surfaces of pyramids		10.11.2025	
15		Development of Lateral surfaces of pyramids		11.11.2025	
16		Development of Lateral surfaces and their applications such as funnel, Chimney, pipe bend		14.11.2025	

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LECT. NO.	UNIT NO.	TOPIC TO BE COVERED	PLANNED DATE	EXECUTION DATE	REMARKS
		UNIT-3 CONVENTIONAL REPRESENTATIONS			
17	3	Introduction Standard convention as per BIS [SP – 46 (1988)]	6.11.25 - 20.11.25	15.11.2025	
18		Materials- C.I., M.S, Brass, Bronze, Aluminum, wood, Glass, Concrete and Rubber		17.11.2025	
19		Ball and Roller Bearings, Pipe joints, cocks, valves.		19.11.2025	
20		Internal / external threads, Knurling, Serrated shafts, splined shafts, and keys and key ways		21.11.2025	
21		Springs with square and flat ends Gears, sprocket wheel, chain wheels		22.11.2025	
22		Countersunk & counter bored holes, Tapers		25.11.2025	

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LECT. NO.	UNIT NO.	TOPIC TO BE COVERED	PLANNED DATE	EXECUTION DATE	REMARKS
		UNIT-4 LIMIT - FITS - TOLERANCE, SURFACE FINISH AND WELDING SYMBOL IN PRODUCTION DRAWING			
23	4	Limits, fits and tolerances: Definitions	21.11.25 - 5.12.25	26.11.2025	
24		Introduction to ISO system of tolerances - unilateral and bilateral tolerance, its representation on drawing.		28.11.2025	
25		dimensional tolerances, elements of interchangeable system, hole & shaft base systems, tolerance diagram.		1.12.2025	
26		Selection of fit (clearance, transition and interference) for engineering applications.		3.12.2025	
27		Geometrical tolerances: Definitions		4.12.2025	
28		Tolerances of form and position and its geometric representation-tolerance frame, datum feature.		5.12.2025	
29		magnitude of tolerance and symbol, interpretation of a given symbol on drawing, simple examples.		8.12.2025	
30		General welding symbols, length and size of weld		9.12.2025	
31		surface contour and finish of weld, all round and site weld.		12.12.2025	
32		symbolic representation in Engineering practices and its interpretation.		13.12.2025	
33		Characteristics of surface roughness Indication of machining symbol showing direction of lay.		15.12.2025	
34		roughness grades, machining allowances, manufacturing methods, using ISO code.		17.12.2025	
35		Relation of surface roughness values with manufacturing processes.		19.12.2025	

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LECT. NO.	UNIT NO.	TOPIC TO BE COVERED	PLANNED DATE	EXECUTION DATE	REMARKS
		UNIT-5 ASSEMBLY TO DETAIL DRAWING			
36	5	Introduction, types of assembly drawing, accepted norms to be observed for assembly drawings.	6.12.25 - 25.12.25	20.12.2025	
37		sequence for preparing assembly drawing.		23.12.2025	
38		Bill of Material.		24.12.2025	
39		Exploded view of Flange coupling		29.12.2025	
40		Exploded view of Bushed Bearing		31.12.2025	
41		Exploded view of Plummer Block		1.01.2026	
42		Exploded view of Lathe Square Tool Post		2.01.2026	
43		Exploded view of Knuckle Joint		5.01.2026	
44		Exploded view of Cast Iron Pulley		7.01.2026	

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Subject Code: 2037374(037)

LECT. NO.	UNIT NO.	TOPIC TO BE COVERED	PLANNED DATE	EXECUTION DATE	REMARKS
		UNIT- 6 ASSEMBLY TO DETAIL			
45	6	Introduction, types of assembly drawing, accepted norms to be observed for assembly drawings.	26.12.25 - 10.01.26	9.01.2026	
46		sequence for preparing assembly drawing.		10.01.2026	
47		Bill of Material.		14.01.2026	
48		Flange coupling		16.01.2026	
49		Plummer Block		19.01.2026	
50		Lathe Square Tool Post		20.01.2026	
51		Knuckle Joint		21.01.2026	
52		Cast Iron Pulley		22.01.2026	

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Branch & Semester: Mechanical Engineering & Diploma in 3rd Semester

Subject Code: 2037374(037)

LECT. NO.	UNIT NO.	TOPIC TO BE COVERED	PLANNED DATE	EXECUTION DATE	REMARKS
		UNIT- 7 ISOMETRIC AND ORTHOGRAPHIC SECTIONAL VIEWS			
53	7	Recall Isometric and orthographic projections.	11.01.26 - 30.01.26	24.01.2026	
54		Conversion of pictorial view into Orthographic views.		27.01.2026	
55		Conversion of orthographic views into isometric View/projection.		28.01.2026	
56		Need for sectional views, Cutting plane and line.		30.01.2026	
57		Sectioning conventions and section lines.		2.02.2026	
58		Types of sections: Full, Half, Broken, Removed, Revolved and Offset.		4.02.2026	
59		Recall AutoCAD Draw, Modify, Edit and Plot commands.		4.02.2026	
60		Isometric and Orthogonal drawings using any computer aided drafting software (AutoCAD).		7.02.2026	

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Government Co-Ed Polytechnic, Jagdalpur, Bastar(C.G)
Department Of Mechanical Engineering

LESSON PLAN

Session: - **Nov-Dec 2025**

Semester: - **3rd**

Session start date as per University Calendar: - **29.09.2025**

Course Name: - **Material Technology**

Course Code: - **2037375 (037)**

Name of Subject teacher: - **Bhupesh Sahu**

TOPIC	NO. OF PERIODS (HOURS)
Unit-1.0 Properties and Structure of Engineering Materials	10
1.1 Classification of engineering materials –Metals and Non-metals	01
1.2 Properties of engineering materials Physical, Thermal, Electrical, Magnetic and Mechanical properties	01
1.3 Structure of crystalline solids: Concept of Amorphous and crystalline structure, Crystallization of liquid into solid state, nucleation and growth, formation of polycrystalline and single crystals, effect of grain size on material properties.	02
1.4 Crystal Structure – space lattice, unit cell, BCC, FCC, HCP lattice	02
1.5 Structural imperfections: impurity atoms, point imperfection, line imperfection, dislocations, surface imperfection, volume defects	02
1.6 Metallurgical microscope, its use and care	02
Unit-2.0 Plastic deformation	13
2.1 Elastic and Plastic deformation	02
2.2 Mechanisms of deformation in crystalline materials – Slip and Twinning	02
2.3 Stress – Strain curves for polycrystalline materials	02

2.4 Yield point phenomena	03
2.5 Strain hardening	02
2.6 Recovery, recrystallisation and grain growth	02
Unit-3.0 Phase diagrams	13
3.1 Concept, definitions and need	02
3.2 Solid Solution – Types	01
3.3 Alloy – need for alloying, effect on material properties	02
3.4 Cooling curves and their importance.	02
3.5 Types of phase equilibrium diagram - monotectic, Eutectic, Hyper eutectic, hypoeutectic, eutectoid, Hyper and Hypo eutectoid, peritectic and peritectoid system.	02
3.6 Iron-carbon equilibrium diagram: Development of microstructure in Iron-Carbon system, Allotropic transformations in Iron and Steel	02
3.7 Microstructure examination: Preparation of microspecimen, selecting the specimen, grinding and polishing, Etching and etching reagents. use and care of microscope	02
Unit-4.0 Metallic Materials	10
Micro- Structure, Properties and application, designation and coding methods of:	03
4.1 Cast Iron: Gray, White, Malleable, Nodular Cast iron.	
4.2 Steels: Low, medium and high carbon steels, Stainless-steel, High-speed steel, Tool steel, Alloy steels	04
4.3 Copper, Aluminum, Zinc and their alloys, Bearing materials, Alloying elements	03
Unit-5.0 Non-metallic Materials	10
5.1 Polymers: Types, properties and industrial applications	03

5.2 Ceramic and refractory: Types, properties and applications	02
5.3 Composites: types, properties and applications.	02
5.4 Nano and Smart materials: Definition, types - piezoelectric, thermoresponsive, shape memory alloys, polychromic, chromogenic or halochromic materials, Applications	03
Unit-6.0 Heat treatment of Steels	13
6.1 Introduction, purpose and advantage of heat treatment	02
6.2 TTT Curve: Significance and construction of TTT curve for eutectoid steel	02
6.3 Introduction to Pearlitic, Bainitic and Martensitic Transformation	03
6.4 Heat treatment processes: Annealing, Normalizing, Hardening, Tempering, Surface and Case hardening	03
6.5 Heat treatment furnaces: Muffle furnace, Box type furnace	03
Unit-7.0 Testing of Materials	11
7.1 Destructive and nondestructive testing	03
7.2 Destructive testing - Hardness test (Brinell, Rockwell and Vickers)	04
7.3 Non-destructive testing – Magnetic particle crack detection test, Dye penetration test, Ultrasonic test, Radiography test, Eddy current testing	04

No. of Periods (Hours): 80
No. of Periods (Hours) actually taken:

Head of Department
Department of MECHANICAL
ENGINEERING
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Adawal near R.T.O., Jagdalpur, Bastar (C.G.)-494001

E-mail: mechanical.gcpb@gmail.com

LESSION PLAN

Name of the faculty :- Mr. AMAR XALXO

Semester :- 3rd

Subject Name- Strength of material 2037372(037)

Lesson Plan Duration (L+P+T) :- 60Hrs (From Sept. To Dec. 2024)

S.No.	No. Of Periods	Topic Name	Practicals
	(Approx.Hrs: L+P+T =06)	Unit-1.0 Direct Stresses and Strains in components	
1	1	Different types of Structures and Loads. Direct Stress, linear Strain, Hook's Law Calculation of Direct Stress and Linear Strain,	LE1.1 Perform Tension Test on mild steel/ Aluminium on Universal Testing machine as per IS432 (I)
2	1	Stress- Strain curve of Mild Steel, Modulus of Elasticity, Yield, Breaking and Ultimate Stress and factor of Safety. Lateral Strain and Poisson's ratio.	LE1.2 Perform Compression test on cast iron on Universal Testing Machine as per IS 14858.
3	1	Temperature Stresses and Strain with and without yielding.	LE1.3 Perform direct Shear Test on mild steel using Universal Testing Machine as per IS 5242.
4	1	Shear Stress Shear Strain and Shear Modulus. Bulk Modulus and Volumetric Strain.	LE1.4 Calculate Impact Value of Mild Steel using IZOD Impact Test Apparatus.
5	2	Differentiate Sudden, Gradual and Impact Load, Strain Energy and Proof Resilience for Sudden, Gradual and Impact Load with numerical problems.	
	(Approx. Hrs: L+P+T =07)	Unit-2 Shear Force and Bending Moments in Beam type components	
1	1	Statically Determinate Beams like Cantilever, Simply Supported and Over Hang Beam.	LE2.1 Estimate Maximum Bending moment And shear force for simply supported and cantilever beam under point load and UDL using Combined Shear Force and Bending Moment apparatus.
2	1	Relation between Shear Force and Bending Moment.	
3	2	Sagging and Hogging Bending Moment and its importance. Point of Contra flexure and its importance.	
4	2	S.F and B.M Diagram for Cantilever, Simply Supported and Over Hang Beam.	
5	1	Components like shaft, axle and spindle compression system subjected to Point Load and/ or Uniformly Distributed Load (UDL).	
	(Approx. Hrs: L+P+T =10)	Unit-3 Bending stresses and shear stresses in beam type components	

1	2	Bending Theory Equation Bending stress , Sectional Modulus	LE3.1 Measure flexural rigidity (EI) for a given beam using 'Slope and Deflection' apparatus and compare it with theoretical value.
2	3	Neutral Axis, application of Bending theory to Statically determinate beams elements like shaft, axle, spindle , pulley arm having rectangular or circular section to find out stresses.	
3	2	Structural components subjected to Axial Eccentric Loads.	
4	3	Shear stress-Average and Maximum shear stress for rectangular, circular section.	
	(Approx. Hrs: L+P+T =12)	Unit-4 Deflection of beam type components	
1	2	Slope and Deflection.	LE4.1 Investigate the effect of beam length and width on deflection of beam and compare it with theoretical value using 'Slope and Deflection' apparatus.
2	5	Deflection Formulae for Cantilever Beam subjected to Point Load at free end and with full UDL.	
3	5	Formulae for Simply supported Beam subjected to Point Load at Mid Span and with full UDL.	
	(Approx. Hrs: L+P+T =10)	Unit-5.0 Springs	
1	2	Definition, types and use of springs.	LE5.1 Measure Stiffness and deflection of given spring and modulus of rigidity the spring wire using 'Extension and compression of Spring' apparatus.
2	4	Spring classification based on size, shape and load- leaf spring, helical and spiral spring.	
3	4	Stiffness, deflection and maximum stress in helical open and closed coil springs and leaf springs.	
	(Approx. Hrs: L+P+T =15)	Unit-6.0 Principal Stresses and Strains	
1	2	Multi load situations and need of estimating principal stresses.	LE6.1 Measure principal stresses and strains in a beam made of aluminum and loaded as a cantilever, and compare them with theoretical values using 'Principal stress and strain. Apparatus.
2	4	Definition of principal plane and principal stresses. Expression for normal and tangential stress, maximum shear stress.	
3	2	Stresses on inclined planes.	
4	3	Position of principal planes and planes of maximum shear	

5	4	Graphical solution using Mohr's circle of Stresses.	
	(Approx. Hrs: L+P+T =10)	Unit-7.0 Buckling stresses in Columns and Struts type components	
1	2	Column and Strut , Short and Long Column.	LE7.1 Measure the buckling load of three different slenderness ratio long columns of same lengths using 'Behaviour of column and struts' apparatus.
2	3	End Condition of Column, Effective Length of Column. and Modes of Failure in column.	
3	2	Radius of Gyration , Slenderness Ratio. Euler's Crippling Load and its application.	
4	3	Rankin's load /Buckling Load and its application in screw of screw jack.	
	(Approx. Hrs: L+P+T =10)	Unit-8.0 Torsion of Shaft	
1	3	Torsion, Angle of Twist, Polar Moment of Inertia, Torsional Rigidity.	LE8.1 Perform the torsion test on MS wire/ Rod using 'Torsion of Bar' apparatus. LE8.2 Determine modulus of rigidity by conducting Torsion Test on MS (Part I) as per IS 1717
2	2	Formula of Torsional Stress.	
3	5	Formula for Power Transmitted/Consumed for shaft, spindle and axle of solid and hollow sections subjected to Torsion.	

GOVT. CO-ED POLYTECHNIC JAGDALPUR ADAWAL, DIST - BASTAR (C.G.) 494001 DEPARTMENT OF MECHANICAL ENGINEERING LESSON PLAN <u>SESSION-(NOV-DEC) 2025</u>				
NAME OF FACULTY : TEJESHVARYA				
SUBJECT : BASIC ELECTRICAL AND ELECTRONICS ENGINEERING				
SUBJECT CODE : 2037371(025)				
SEMESTER : DIPLOMA (3rd)SEM				
ELECTRICAL TECHNOLOGY :THERAJA B.L.& THAREJA A.K.				
ELECTRICAL MACHINES : BHATTACHARYA S. K.				
BASIC ELECTRICAL ENGINEERING : MITTAL V.N.				
PRINCIPLES OF ELECTRONICS : MEHTA V.K.				
REF. BOOKS				
LECT. NO.	UNIT	TOPIC TO BE COVERED	DATE OF LECTURE TAKEN	REMARKS
		UNIT - 1 DC & AC CIRCUITS		
1	1	DC circuits concept of charge	1	
2		potential difference and current	1	
3		kirchhoff's current and voltage law	1	
4		series and parallel circuits	1	
5		AC fundamentals phase difference	1	
6		power factor unity,lag and lead	1	
7		RMS value , average value and form factor	1	
8		AC circuits RLC circuits	1	
9		impedance,admittance	1	
10		power and phasor representation	1	
11		polyphase circuits basic concepts of three phase generation	1	
12		phase sequence line,phase values of voltages	1	
13		current and voltage relationship in three phase AC circuits	1	
14		star and delta configuration	1	
		UNIT-2 TRANSFORMER AND ELECTRICAL MACHINES		
15	2	Transformer construction	1	
16		working principle,transformation ratio	1	
17		EMF equation	1	
18		DC machines-construction	1	
19		DC generator -types	1	
20		working principle EMF equation	1	
21		DC motors - types, working principle	1	
22		EMF equation,back EMF, torque	1	
23		Three phase and single phase induction motorconstruction	1	
24		working principle,slip,torque-speed characteristics	1	
25		single phase induction motor operating principle and classification	1	
26		Three phase synchronous machine-construction,	1	
27		rotor construction-salient and non salient	1	
28		working principle of synchronous generator ,applications	1	
29		working principle of synchronous motor,applications	1	
		UNIT-3 DIODE AND ITS APPLICATIONS		
30	3	introduction of PN junction diode	1	
31		equivalent circuits of PN junction diode	1	
32		V-I characteristics of diode,forward and reverse biased	1	
33		diode current equation	1	
34		need of rectification, half wavw rectifier	1	
35		full wave rectifiers	1	
36		zener diode , equivalent circuit of zener diode	1	
37		zener diode as a voltage regulator	1	
		UNIT-4 BJT, FET AND MOSFET		
38	4	Introduction of BJT,types of BJT	1	
39		construction and operation of NPN and PNP transistor	1	
40		need of transistor basing	1	
41		input and output characteristics of CB,CE,CC configuration	1	
42		transistors as an amplifier	1	
43		transistor as a switch	1	
44		introduction of FET	1	
45		classification of FET	1	
46		types of JFET	1	
47		construction and operation of N-channel JFET	1	
48		construction and operation of P-channel JFET	1	
49		construction and operation of depletion type MOSFET	1	
50		construction and operation of enhancement type MOSFET	1	
		UNIT-5 TEST AND MEASURING INSTRUMENTS		
51	5	analog multimeter	1	
52		digital multimeter	1	
53		working of mutimeter	1	
54		function generator construction	1	
55		function generator working	1	
56		block diagram of CRO	1	
57		constructional features of CRT	1	
58		Principle of operation,	1	
59		working of various blocks of CRO	1	
60		features of dual trace oscilloscopes	1	
61		fundamentals of LED display technique	1	
62		fundamentals of LCD display techniques	1	
TOTAL SCHEDULED CLASSES: 62			Signature of Faculty	HOD Signature
TOTAL CLASSES TAKEN:				