

Discipline: ELECTRICAL ENGINEERING	Semester : 5TH	Name of the Teaching Faculty: PRABHAT RASHMI MALLIK & BISWANATH PRATAP SINGH
Subject: SWITCHGEAR AND PROTECTION	No. of days/per week class allotted: 03	Semester From date : 08.07.2026 To:- 05.11.2026 No. of weeks: 17
	Course Outcome	1. Identify various types of faults in power system. 2. Select suitable switchgears for different applications. 3. Explain the test for performance of different protective relays. 4. Discuss protection systems of alternators and transformers. 5. Discuss protection schemes for motors and transmission lines. 6. Explain protection schemes for power system against overvoltage
Week	Class Day	Theory Topics
1ST	1ST	UNIT I. Basics of Protection Necessity, functions of protective system.
	2ND	Normal and abnormal conditions.
	3RD	Types of faults and their causes.
2ND	1ST	Protection zones and backup protection.
	2ND	Short circuit fault calculations in lines fed by generators through transformers
	3RD	Short circuit fault calculations in lines fed by generators through transformers
3RD	1ST	Need of current limiting reactors and their arrangements
	2ND	UNIT II. Circuit Interruption Devices Isolators- Vertical break, Horizontal break and Pantograph type
	3RD	HRC fuses – Construction, working, characteristics and applications.
4TH	1ST	Arc formation process, methods of arc extinction (High resistance and Low resistance), Arc voltage, Recovery voltage, Re-striking voltage, RRRV.
	2ND	Arc formation process, methods of arc extinction (High resistance and Low resistance), Arc voltage, Recovery voltage, Re-striking voltage, RRRV.
	3RD	Arc formation process, methods of arc extinction (High resistance and Low resistance), Arc voltage, Recovery voltage, Re-striking voltage, RRRV.
5TH	1ST	HT circuit breakers (Sulphur-hexa Fluoride (SF ₆), Vacuum circuit breaker) - Working, construction, specifications and applications
	2ND	HT circuit breakers (Sulphur-hexa Fluoride (SF ₆), Vacuum circuit breaker) - Working, construction, specifications and applications
	3RD	L.T. circuit breaker (Air circuit breakers (ACB), Miniature circuit breakers (MCB), Moulded case circuit breakers (MCCB) and Earth leakage circuit breaker (ELCB)) - Working and applications.
6TH	1ST	L.T. circuit breaker (Air circuit breakers (ACB), Miniature circuit breakers (MCB), Moulded case circuit breakers (MCCB) and Earth leakage circuit breaker (ELCB)) - Working and applications.
	2ND	Selection of LT and HT circuit breakers (ratings), Selection of MCCB for motors.
	3RD	Selection of LT and HT circuit breakers (ratings), Selection of MCCB for motors.
7TH	1ST	Gas insulated switchgear
	2ND	UNIT III. Protective Relays Fundamental quality requirements: Selectivity, Speed, Sensitivity, Reliability, Simplicity, Economy.
	3RD	Basic relay terminology- Protective relay, Relay time, Pick up, Reset current, current setting, Plug setting multiplier, Time setting multiplier.
8TH	1ST	Protective relays: Classification, principle of working, construction and operation of – Electromagnetic (Attracted armature type, Solenoid type, Watt-hour meter type) relay,

	2 ND	Protective relays: Classification, principle of working, construction and operation of – Electromagnetic (Attracted armature type, Solenoid type, Watt-hour meter type) relay,
	3 RD	Thermal relay. Block diagram and working of Static relay.
	9 TH	1 ST Overcurrent relay-Time current characteristics.
	2 ND	Microprocessor based over current relays: Block diagram, working.
	3 RD	Distance relaying- Principle, operation of Definite distance relays.
	10 TH	1 ST Directional relay: Need and operation.
	2 ND	Operation of current and voltage differential relay
	3 RD	UNIT IV. Protection of Alternator and Transformer Alternator earth fault, overheating a Protection Faults, Differential protection Over current, field failure, protection.
	11 TH	1 ST Alternator Protection Faults, Differential protection Over current, earth fault, overheating and field failure, protection.
	2 ND	Reverse power protection.
	3 RD	Reverse power protection.
	12 TH	1 ST Transformer Protection Faults, Differential, over current, earth fault, over heating protection, Limitations of differential protection.
	2 ND	Transformer Protection Faults, Differential, over current, earth fault, over heating protection, Limitations of differential protection.
	3 RD	Transformer Protection Faults, Differential, over current, earth fault, over heating protection, Limitations of differential protection.
	13 TH	1 ST Buchholz relay: Construction, operation, merits and demerits
	2 ND	Buchholz relay: Construction, operation, merits and demerits
	3 RD	UNIT V. Protection of Motors Bus-bar and Transmission Line Motor Faults. Short circuit protection, Overload protection, Single phase preventer.
	14 TH	1 ST Bus-bar and Transmission Line Motor Faults. Short circuit protection, Overload protection, Single phase preventer.
	2 ND	Bus bar and Transmission line
	3 RD	Bus bar and Transmission line
	15 TH	1 ST Faults on Bus bar and Transmission Lines.
	2 ND	Bus bar protection: Differential and Fault bus protection.
	3 RD	Transmission line: Over current, Distance and Pilot wire protection
	16 TH	1 ST EXTRA CLASS
	2 ND	DOUBT CLEARING CLASSES
	3 RD	EXTRA CLASS
	17 TH	1 ST DOUBT CLEARING CLASSES
	2 ND	EXTRA CLASS
	3 RD	DOUBT CLEARING CLASSES

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Academic Coordinator

Discipline: ELECTRIC AL ENGINEERING	Semester : 5TH	Name of the Teaching Faculty: PRATIK DAS
Subject: INDUSTRIAL AUTOMATION & DRIVES	No. of days/per week class allotted: 03	Semester From date : 08.07.2026 To:- 05.11.2026 No. of weeks: 17
	Course Outcome	1. Identify different types of automation systems. 2. Illustrate interfacing of I/O devices with the PLC modules. 3. Write programming using ladder logic for simple applications 4. Explain the selection of the suitable motor drives for different applications 5. Explain selection of relevant DC motor and AC motor for various electric drive applications 6. Explain SCADA and its applications
Week	Class Day	Theory Topics
1 ST	1 ST	UNIT I. Introduction to Industrial Automation Automation: Need and benefits.
	2 ND	Types of automation system: Fixed, Programmable, Flexible
	3 RD	Different systems used for Industrial automation: PLC, HMI, SCADA, DCS, Drives
2 ND	1 ST	Different systems used for Industrial automation: PLC, HMI, SCADA, DCS, Drives
	2 ND	UNIT II. PLC Fundamentals Building blocks of PLC: CPU, Memory organization, Input- output modules (discrete and analog),
	3 RD	Specialty I/O Modules, Power supply
3 RD	1 ST	Fixed and Modular PLC and their types, Redundancy in PLC module
	2 ND	I/O module selection criteria
	3 RD	Interfacing different I/O devices with appropriate I/O modules
4 TH	1 ST	UNIT III. PLC Programming and Applications PLC I/O addressing
	2 ND	PLC I/O addressing
	3 RD	PLC programming Instructions: Relay type instructions, Timer instructions: On delay, off delay, retentive, Counter instructions: Up, Down, High speed, Logical instructions, Comparison Instructions, Data handling Instructions, Arithmetic instructions.
5 TH	1 ST	PLC programming Instructions: Relay type instructions, Timer instructions: On delay, off delay, retentive, Counter instructions: Up, Down, High speed, Logical instructions, Comparison Instructions, Data handling Instructions, Arithmetic instructions.
	2 ND	PLC programming language: Functional Block Diagram (FBD), Instruction List. Structured text, Sequential Function Chart (SFC), Ladder Programming

	3 RD	PLC programming language: Functional Block Diagram (FBD), Instruction List, Structured text, Sequential Function Chart (SFC), Ladder Programming.
6 TH	1 ST	Simple Programming examples using ladder logic: Language based on relay, timer counter, logical, comparison, arithmetic and data handling instructions.
	2 ND	Simple Programming examples using ladder logic: Language based on relay, timer counter, logical, comparison, arithmetic and data handling instructions.
	3 RD	PLC Based Applications: Motor sequence control, Traffic light control, Elevator control, Tank Level control, Conveyor system, Stepper motor control, Reactor Control Gate trigger circuits – Resistance and Resistance-Capacitance circuits
7 TH	1 ST	PLC Based Applications: Motor sequence control, Traffic light control, Elevator control, Tank Level control, Conveyor system, Stepper motor control, Reactor Control Gate trigger circuits – Resistance and Resistance-Capacitance circuits
	2 ND	UNIT IV. Electric Drives • Fundamental Concept of Electric Drive Need of Electric Drives, Functional Block diagrams of an electric drives.
	3 RD	Types and Functions Four Quadrant Operation of Motor Drive
8 TH	1 ST	Types and Functions Four Quadrant Operation of Motor Drive
	2 ND	Electric Braking o Electric Braking of DC motor during lowering of loads and stopping, Regenerative braking, AC and DC rheostatic braking
	3 RD	Electric Braking o Electric Braking of DC motor during lowering of loads and stopping, Regenerative braking, AC and DC rheostatic braking
9 TH	1 ST	Selection of motor power rating
	2 ND	DC Motor Drives Single phase and three phases controlled DC drives, Dual converter control of DC drives. Chopper controlled DC drives, Close loop control of DC drive
	3 RD	DC Motor Drives Single phase and three phases controlled DC drives, Dual converter control of DC drives. Chopper controlled DC drives, Close loop control of DC drive
10 TH	1 ST	DC Motor Drives Single phase and three phases controlled DC drives, Dual converter control of DC drives. Chopper controlled DC drives, Close loop control of DC drive
	2 ND	DC Motor Drives Single phase and three phases controlled DC drives, Dual converter control of DC drives. Chopper controlled DC drives, Close loop control of DC drive
	3 RD	Maintenance procedure
11 TH	1 ST	Induction Motor Drives Stator voltage control, V/f controlled induction motors, Slip power recovery, direct torque control
	2 ND	Induction Motor Drives Stator voltage control, V/f controlled induction motors, Slip power recovery, direct torque control
	3 RD	Induction Motor Drives Stator voltage control, V/f controlled induction motors, Slip power recovery, direct torque control

12 TH	1 ST	Introduction to Synchronous Motor Drives Applications Speed control of AC motor /DC Motor
	2 ND	Introduction to Synchronous Motor Drives Applications Speed control of AC motor /DC Motor
	3 RD	UNIT V. Supervisory Control and Data Acquisition System (SCADA) Introduction to SCADA: Typical SCADA architecture/block diagram, Benefits of SCADA Various editors of SCADA
13 TH	1 ST	Introduction to SCADA: Typical SCADA architecture/block diagram, Benefits of SCADA Various editors of SCADA
	2 ND	Interfacing SCADA system with PLC: Typical connection diagram, Object Linking & embedding for Process Control (OPC) architecture,
	3 RD	Interfacing SCADA system with PLC: Typical connection diagram, Object Linking & embedding for Process Control (OPC) architecture,
14 TH	1 ST	Interfacing SCADA system with PLC: Typical connection diagram, Object Linking & embedding for Process Control (OPC) architecture,
	2 ND	Steps in Creating SCADA Screen for simple object
	3 RD	Steps for Linking SCADA object (defining Tags and Items) with PLC ladder program using OPC.
15 TH	1 ST	Steps for Linking SCADA object (defining Tags and Items) with PLC ladder program using OPC.
	2 ND	Applications of SCADA: Traffic light control, water distribution, pipeline control
	3 RD	Applications of SCADA: Traffic light control, water distribution, pipeline control
16 TH	1 ST	EXTRA CLASS
	2 ND	DOUBT CLEARING CLASSES
	3 RD	EXTRA CLASS
17 TH	1 ST	REVISION CLASSES
	2 ND	REVISION CLASSES
	3 RD	REVISION CLASSES

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Discipline: ELECTRICAL ENGINEERING	Semester : 5TH	Name of the Teaching Faculty: SOMA DASH
Subject: DIGITAL ELECTRONICS AND MICROPROCESSOR	No. of days/per week class allotted: 03	Semester From date : 01.07.2026 To:- 05.11.2026 No. of weeks: 18
	Course Outcome	1. Apply digital fundamentals, Boolean algebra and its applications in simple digital systems 2. Comprehend combinational logic circuits. 3. Illustrate analysis and design procedures for synchronous and asynchronous sequential circuits 4. Explain the various semiconductor memories and related technology 5. Explain the architecture of microprocessor 8085
Week	Class Day	Theory Topics
1 ST	1 ST	Digital Fundamentals Number Systems – Decimal, Binary, Octal, Hexadecimal
	2 ND	1's and 2's complements
	3 RD	Codes – Binary, BCD, Excess 3
2 ND	1 ST	Gray, Alphanumeric codes
	2 ND	Boolean theorems
	3 RD	Logic gates and truth tables, Universal gates
3 RD	1 ST	Sum of products and product of sums, Minterms and Maxterms
	2 ND	Karnaugh map Minimization and Quine Mc Cluskey method of minimization.
	3 RD	Combinational & Synchronous Sequential Circuits Design of Half and Full Adders
4 TH	1 ST	Half and Full Subtractors
	2 ND	Binary Parallel Adder
	3 RD	Multiplexer, Demultiplexers
5 TH	1 ST	Decoders, and Priority Encoder
	2 ND	Flip flops – SR, JK, T, D
	3 RD	Design of clocked sequential circuits – Design of Counters
6 TH	1 ST	Design of Shift registers
	2 ND	Universal Shift Register
	3 RD	Asynchronous Sequential Circuits And Memory Devices Stable and Unstable states, output specifications
7 TH	1 ST	Cycles and races, state reduction, race free assignments

	2 ND	Hazards, Essential Hazards, Pulse mode sequential circuits
	3 RD	Design of Hazard free circuits
8 TH	1 ST	Basic memory structure – ROM -PROM – EPROM – EEPROM – EAPROM, RAM
	2 ND	Static and dynamic RAM
	3 RD	Programmable Logic Devices
9 TH	1 ST	Programmable Logic Array (PLA) – Programmable Array Logic (PAL)
	2 ND	Field Programmable Gate Arrays (FPGA)
	3 RD	8085 Processor Hardware Architecture
10 TH	1 ST	Hardware Architecture
	2 ND	Pin diagram
	3 RD	Functional Building Blocks of Processor
11 TH	1 ST	Memory organization
	2 ND	I/O ports and data transfer concepts
	3 RD	Timing Diagram
12 TH	1 ST	Timing Diagram
	2 ND	Interrupts
	3 RD	Programming Processor Instruction – format and addressing modes
13 TH	1 ST	Instruction – format and addressing modes
	2 ND	Assembly language format
	3 RD	Data transfer, data manipulation & control instructions
14 TH	1 ST	Programming
	2 ND	Loop structure with counting & Indexing
	3 RD	Look up table
15 TH	1 ST	Subroutine instructions
	2 ND	Stack
	3 RD	8255 architecture and operating modes.
16 TH	1 ST	EXTRA CLASSES
	2 ND	EXTRA CLASSES
	3 RD	EXTRA CLASSES
17 TH	1 ST	PROBLEM SOLVING CLASSES
	2 ND	PROBLEM SOLVING CLASSES
	3 RD	PROBLEM SOLVING CLASSES
18 TH	1 ST	DOUBT CLEARING CLASSES
	2 ND	DOUBT CLEARING CLASSES
	3 RD	DOUBT CLEARING CLASSES

Teaching Faculty

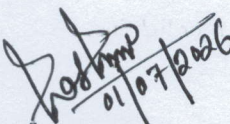
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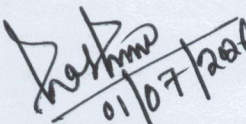
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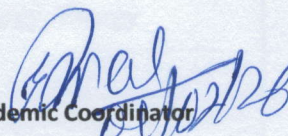
Discipline: ELECTRICAL ENGINEERING	Semester :5 TH	Name of the Teaching Faculty: PRABHAT RASHMI MALLIK
Subject: ENERGY CONSERVATION AND AUDIT	No. of days/per week class allotted:03	Semester From date : <u>01.07.2026</u> To:- <u>05.11.2026</u> No of Weeks-18
	Course Outcome	1. Interpret energy conservation policies in India. 2. Implement energy conservation techniques in electrical machines. 3. Apply energy conservation techniques in electrical installations. 4. Use Co-generation and relevant tariff for reducing losses in facilities. 5.Undertake energy audit for electrical system
Week	Class Day	Theory Topics
1 ST	1 ST	UNIT I Energy Conservation Basics Energy Scenario: Primary and Secondary Energy, Energy demand and supply, National scenario
	2 ND	Energy Scenario: Primary and Secondary Energy, Energy demand and supply, National scenario
	3 RD	Energy conservation and Energy audit; concepts and difference
2 ND	1 ST	Energy conservation and Energy audit; concepts and difference
	2 ND	Indian Electricity Act 2001; relevant clauses of energy conservation
	3 RD	Indian Electricity Act 2001; relevant clauses of energy conservation
3 RD	1 ST	BEE and its Roles, MEDA and its Roles Star Labelling: Need and its benefits
	2 ND	UNIT II Energy Conservation in Electrical Machines Need for energy conservation in induction motor and transformer
	3 RD	Energy conservation techniques in induction motor by: Improving Power quality. Motor survey
4 TH	1 ST	Matching motor with loading. Minimizing the idle and redundant running of motor. Operating in star mode
	2 ND	Rewinding of motor. Replacement by energy efficient motor
	3 RD	Periodic maintenance Energy conservation techniques in Transformer. Loading sharing
5 TH	1 ST	Parallel operation Isolating techniques. Replacement by energy efficient transformers. Periodic maintenance
	2 ND	Energy Conservation Equipment: Soft starters, Automatic star delta convertor, Variable Frequency Drives, Automatic p. f. controller (APFC), Intelligent p. f. controller (IPFC)
	3 RD	Energy Conservation Equipment: Soft starters, Automatic star delta

		converter, Variable Frequency Drives, Automatic p. f. controller (APFC), Intelligent p. f. controller (IPFC)
6 TH	1 ST	Energy efficient motor; significant features, advantages, applications and limitations
	2 ND	Energy efficient transformers, amorphous transformers; epoxy Resin cast transformer / Dry type of transformer.
	3 RD	UNIT III Energy conservation in Electrical Installation systems Aggregated Technical and commercial losses (ATC);
7 TH	1 ST	Power system at state, regional, national and global level
	2 ND	Technical losses; causes and measures to reduce by. a) Controlling I ² R losses. b) Optimizing distribution voltage
	3 RD	Technical losses; causes and measures to reduce by. c) Balancing phase currents d) Compensating reactive power flow Commercial losses: pilferage, causes and remedies
8 TH	1 ST	Energy conservation equipment: Maximum Demand Controller , kVAR Controller, Automatic Power Factor controller(APFC)
	2 ND	Energy Conservation in Lighting System a) Replacing Lamp sources. b) Using energy efficient luminaries.
	3 RD	c) Using light controlled gears. d) Installation of separate transformer / servo stabilizer for lighting.
9 TH	1 ST	c) Using light controlled gears. d) Installation of separate transformer / servo stabilizer for lighting.
	2 ND	e) Periodic survey and adequate maintenance programs.
	3 RD	Energy Conservation techniques in fans, Electronic regulators
10 TH	1 ST	UNIT IV Energy conservation through Cogeneration and Tariff Co-generation and Tariff; concept, significance for energy conservation
	2 ND	Co-generation Types of cogeneration on basis of sequence of energy use (Topping cycle, Bottoming cycle)
	3 RD	Co-generation Types of cogeneration on basis of sequence of energy use (Topping cycle, Bottoming cycle)
11 TH	1 ST	Types of cogeneration basis of technology (Steam turbine cogeneration, Gas turbine cogeneration, Reciprocating engine cogeneration)
	2 ND	Factors governing the selection of cogeneration system. Advantages of cogeneration.
	3 RD	Factors governing the selection of cogeneration system. Advantages of cogeneration.
12 TH	1 ST	Tariff: Types of tariff structure: Special tariffs; Time-off-day tariff, Peak-off-day tariff, Power factor tariff, Maximum Demand tariff, Load factor tariff.
	2 ND	Tariff: Types of tariff structure: Special tariffs; Time-off-day tariff, Peak-off-day tariff, Power factor tariff, Maximum Demand tariff, Load factor tariff.
	3 RD	Tariff: Types of tariff structure: Special tariffs; Time-off-day tariff, Peak-off-day tariff, Power factor tariff, Maximum Demand tariff, Load factor tariff
13 TH	1 ST	Application of tariff system to reduce energy bill
	2 ND	UNIT V ENERGY AUDIT OF ELECTRICAL SYSTEM

		Energy audit (definition as per Energy Conservation Act)
	3 RD	Energy audit (definition as per Energy Conservation Act)
14 TH	1 ST	Energy audit instruments and their use.
	2 ND	Energy audit instruments and their use.
	3 RD	Questionnaire for energy audit projects.
15 TH	1 ST	Energy flow diagram (Sankey diagram)
	2 ND	Simple payback period, Energy Audit procedure (walk through audit and detailed audit).
	3 RD	Energy Audit report format.
16 TH	1 ST	EXTRA CLASSES
	2 ND	EXTRA CLASSES
	3 RD	EXTRA CLASSES
17 TH	1 ST	EXTRA CLASSES
	2 ND	DOUBT CLEARING CLASSES
	3 RD	DOUBT CLEARING CLASSES
18 TH	1 ST	DOUBT CLEARING CLASSES
	2 ND	DOUBT CLEARING CLASSES
	3 RD	DOUBT CLEARING CLASSES


Teaching Faculty


HOD, EE


Academic Coordinator

Discipline: ELECTRIC AL ENGINEERING	Semester : 5TH	Name of the Teaching Faculty: BISWANATH PRATAP SINGH
Subject: LEADERSHIP AND MANAGEMENT SKILLS	No. of days/per week class allotted: 03	Semester From date : 01.07.2026 To:- 05.11.2026 No. of weeks: 18
	Course Outcome	Explain the principles of management Collaborate across cultures for effective team work Communicate with people for a positive work culture Demonstrate personal dispositions, skills & abilities of a leader Undertake the process of change management Design training for staff development Adapt suitable leadership style for improved work efficiency.
Week	Class Day	Theory Topics
1 ST	1 ST	Leadership & Management, concept, principles. Definition of leadership, management
	2 ND	Leadership theories
	3 RD	Leadership characteristics
2 ND	1 ST	Principles of management
	2 ND	Managerial functions
	3 RD	Leader v/s Manager, Leader/Manager traits and character
3 RD	1 ST	Leadership Styles
	2 ND	Leader v/s Manager, Leader/Manager traits and character
	3 RD	Managerial functions
4 TH	1 ST	Leadership theories
	2 ND	Human Resource Management in Organizations Human Resource Management: Meaning, Nature, Objectives,
	3 RD	Job & Job analysis
5 TH	1 ST	Staff Development: Need and Objectives of Staff Development, Approaches
	2 ND	Training & development
	3 RD	•Organizational Development: Components of OD process
6 TH	1 ST	Learning organization
	2 ND	Human Resource Management: Meaning, Nature, Objectives, Scope
	3 RD	Staff Development: Need and Objectives of Staff Development, Approaches
7 TH	1 ST	Job & Job analysis.

	2 ND	Training & development
	3 RD	Personal disposition, skills & abilities of leaders Self-awareness
8 TH	1 ST	Leadership characteristics, traits
	2 ND	Leadership skills & abilities
	3 RD	Emotional intelligence & its components, importance in leadership
9 TH	1 ST	Communication skills for effective leadership, barriers to effective communication, Active Listening, Mindful listening
	2 ND	Leading & Mentorship – Influencing & mentoring
	3 RD	Communication skills for effective leadership, barriers to effective communication, Active Listening, Mindful listening
10 TH	1 ST	Leading & Mentorship – Influencing & mentoring
	2 ND	Leadership characteristics, traits
	3 RD	Leader's role in Motivating, Inspiring and Transformative leadership, nurturing team-work Goal setting & leadership Transformative Leadership, vision & envisioning Motivational role of leader in people management Group & team Team dynamics Conflict management, strategies in managing conflicts
11 TH	1 ST	Transformative Leadership, vision & envisioning
	2 ND	Motivational role of leader in people management
	3 RD	Group & team
12 TH	1 ST	Team dynamics
	2 ND	Conflict management, strategies in managing conflicts
	3 RD	Transformative Leadership, vision & envisioning
13 TH	1 ST	Motivational role of leader in people management
	2 ND	Change Management & Leadership Models of change Forces driving change Change Management – process, goal, importance The process of change happening in an organization Key aspects of leadership in change management – responsibilities of a change leader.
	3 RD	Forces driving change
14 TH	1 ST	Change Management – process, goal, importance
	2 ND	The process of change happening in an organization
	3 RD	Key aspects of leadership in change management – responsibilities of a change leader.
15 TH	1 ST	Change Management – process, goal, importance
	2 ND	Key aspects of leadership in change management – responsibilities of a change leader.
	3 RD	Forces driving change
16 TH	1 ST	EXTRA CLASS
	2 ND	EXTRA CLASS
	3 RD	EXTRA CLASS
17 TH	1 ST	DOUBT CLEARING
	2 ND	DOUBT CLEARING
	3 RD	DOUBT CLEARING

18 TH	1 ST	QUESTION ANSWER
	2 ND	QUESTION ANSWER
	3 RD	QUESTION ANSWER

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