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| **GANDHI ACADEMY OF TECHNOLOGY AND ENGINEERING** |
| **DEPARTMENT OF BASIC SCIENCE AND HUMANITIES** |
| **LESSON PLAN CUM PROGRESS REPORT** |
| **SUBJECT:ENGG. PHYSICS** | **SEMESTER:2ND** | **BRANCH:CIVIL** |
| **LECTURENO.** | **CO** | **BTL** | **TOPICTOBECOVERED** | **BOOKNO./CHAPT. NO./PAGENO.** | **WEB REFERENCE IF ANY** | **TEACHING LEARNING METHOD** | **PLANDATE** | **ACTIONDATE** | **REVIEW BY HOD OR COURSE COORDINATOR** |
| 1 | 1 | 1 | Introduction to Physical quantities - Definition of fundamental and derived units systems of units Definition of dimension | K.N SHARMA , Unit no-1, Page No.-1-5 | <https://www.youtube.com/playlist?list=PLajrVxcKRJ5f4a7cJ-MetbIdZ64_5Sci-> | 1. Introduction to PHYSICS -15min.
2. Syllabus & CO discussion - 10min. 3. Lecture–Chalk & Duster-25min

4.DoubtsClearing & Asssignment–10min | 09/01/2024 |  |  |
| 2 | 1 | 2 | Dimensional formulae of physical quantities.Dimensional equations and Principle of homogeneity. | K.N SHARMA , Unit no-1, Page No.-9-13 | <https://www.youtube.com/playlist?list=PLajrVxcKRJ5f4a7cJ-MetbIdZ64_5Sci-> | 1. Previous Class Topic Review-5min.
2. Lecture - Chalk & Duster-45min.
3. Doubts & Asssignment -10min.
 | 10/01/2024 |  |  |
| 3 | 1 | 3 | Checking the dimensional correctness of Physical relations | K.N SHARMA , Unit no-1, Page No.-14-15 | <https://www.youtube.com/playlist?list=PLajrVxcKRJ5f4a7cJ-MetbIdZ64_5Sci-> | 1. Previous Class Topic Review-5min.
2. Lecture -Chalk & Duster-45min.
3. Doubts & Asssignment -10min.
 | 12/01/2024 |  |  |
| 4 | 1 | 3 | Introduction to Scalar and Vector quantities Representation of a Vector – examples, types of vectors. | K.N SHARMA , Unit no-1, Page No.-19-21 | <https://www.youtube.com/playlist?list=PLajrVxcKRJ5f4a7cJ-MetbIdZ64_5Sci-> | 1. Previous Class Topic Review-5min.
2. Lecture -Chalk & Duster-45min.
3. Doubts& Asssignment -10min.
 | 13/01/2024 |  |  |
| 5 | 1 | 2 | Triangle and Parallelogram law of vector Addition. Simple Numerical | K.N SHARMA , Unit no-1, Page No.-22-23 | <https://www.youtube.com/playlist?list=PLajrVxcKRJ5f4a7cJ-MetbIdZ64_5Sci-> | 1. Previous Class Topic Review-5min.
2. Lecture -Chalk & Duster -45min.
3. Doubts & Asssignment -10min.
 | 16/01/2024 |  |  |
| 6 | 1 | 2 | Resolution of Vectors – Simple Numerical on Horizontal and Vertical components. Vector multiplication | K.N SHARMA , Unit no-2, Page No.-25-26 | <https://www.youtube.com/playlist?list=PLajrVxcKRJ5f4a7cJ-MetbIdZ64_5Sci-> | 1. Previous Class Topic Review-5min.
2. Lecture -Chalk & Duster-45min.
3. Doubts & Asssignment -10min..
 | 17/01/2024 |  |  |
| 7 | 1 | 2 | Concept of Rest and Motion, .Displacement, Speed, Velocity, Acceleration | K.N SHARMA , Unit no-3, Page No.-36-38 | <https://www.youtube.com/playlist?list=PLajrVxcKRJ5f4a7cJ-MetbIdZ64_5Sci-> | 1. Previous Class Topic Review-5min.
2. Lecture -Chalk & Duster-45min.
3. Doubts & Asssignment -10min.
 | 19/01/2024 |  |  |
| 8 | 1 | 3 | FORCE (Definition, formula, dimension & SI units).Equations of Motion under Gravity (upward and downward motion) - no derivation | K.N SHARMA , Unit no-3, Page No.-1 | <https://www.youtube.com/playlist?list=PLajrVxcKRJ5f4a7cJ-MetbIdZ64_5Sci-> | 1. Previous Class Topic Review-5min.
2. Lecture -Chalk & Duster-45min.
3. Doubts & Asssignment -10min.
 | 20/01/2024 |  |  |
| 9 | 1 | 4 | Circular motion: Angular displacement, Angular velocity and Angular acceleration (definition, formula & SI units). | K.N SHARMA , Unit no-3, Page No.-71-73 | <https://www.youtube.com/playlist?list=PLajrVxcKRJ5f4a7cJ-MetbIdZ64_5Sci-> | 1. Previous Class Topic Review-5min.
2. Lecture -Chalk & Duster-45min.
3. Doubts & Asssignment -10min.
 | 24/01/2024 |  |  |
| 10 | 1 | 4 | Relation between –(i) Linear & Angular velocity, (ii) Linear & Angular acceleration) | K.N SHARMA , Unit no-3, Page No.-72-73 | <https://www.youtube.com/playlist?list=PLajrVxcKRJ5f4a7cJ-MetbIdZ64_5Sci-> | 1. Previous Class Topic Review-5min.
2. Lecture - Chalk & Duster-45min.
3. Doubts & Asssignment -10min.
 | 27/01/2024 |  |  |
| 11 | 1 | 2 | Define Projectile, Examples of Projectile. Terms related toprojectile (Time of Flight, Maximum Height and Horizontal Range ) | K.N SHARMA , Unit no-3, Page No.- 51 | <https://www.youtube.com/playlist?list=PLajrVxcKRJ5f4a7cJ-MetbIdZ64_5Sci-> | 1. Previous Class Topic Review-5min.
2. Lecture -Chalk & Duster -45min.
3. Doubts & Asssignment -10min.
 | 30/01/2024 |  |  |

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| 12 | 1 | 3 | Expression for projectile fired horizontal at an angle ɵ Equation of TrajectoryTime of Flight Condition for maximum Horizontal Range. | K.N SHARMA , Unit no-3, Page No.-52-53 | <https://www.youtube.com/playlist?list=PLajrVxcKRJ5f4a7cJ-MetbIdZ64_5Sci-> | 1. Previous Class Topic Review-5min.
2. Lecture -Chalk & Duster-45min.
3. Doubts & Asssignment -10min.
 | 31/01/2024 |  |  |
| 13 | 2 | 2 | Introduction to Work – Definition, Formula & SI units | K.N SHARMA , Unit no-4, Page No.-59-61 | <https://www.youtube.com/playlist?list=PLajrVxcKRJ5f4a7cJ-MetbIdZ64_5Sci-> | 1. Previous Class Topic Review-5min.
2. Lecture -Chalk & Duster-45min.
3. Doubts & Asssignment -10min.
 | 06/02/2024 |  |  |
| 14 | 2 | 1 | Friction – Definition & Concept. Types of friction (static, dynamic) | N BARIK, L K DAS, K N SHARMA , Unit no-4, Page No.-251-261 | <https://www.youtube.com/playlist?list=PLajrVxcKRJ5f4a7cJ-MetbIdZ64_5Sci-> | 1. Previous Class Topic Review-5min.
2. Lecture -Chalk & Duster-45min.
3. Doubts & Asssignment -10min.
 | 07/02/2024 |  |  |
| 15 | 2 | 3 | Limiting Friction (Definition with Concept).Laws of Limiting Friction (Only statement, No Experimental Verification). | N BARIK, L K DAS, K N SHARMA , Unit no.- 4, Page No.-261-262 | <https://www.youtube.com/playlist?list=PLajrVxcKRJ5f4a7cJ-MetbIdZ64_5Sci-> | 1. Previous Class Topic Review-5min.
2. Lecture -Chalk& Duster-45min.
3. Doubts & Asssignment -10min.
 | 09/02/2024 |  |  |
| 16 | 2 | 2 | Coefficient of Friction – Definition & Formula, Simple Numericals. | N BARIK, L K DAS, K N SHARMA , Unit no-4, Page No.-263,269-271 | <https://www.youtube.com/playlist?list=PLajrVxcKRJ5f4a7cJ-MetbIdZ64_5Sci-> | 1. Previous Class Topic Review-5min.
2. Lecture -Chalk & Duster-45min.
3. Doubts & Asssignment -10min.
 | 10/02/2024 |  |  |
| 17 | 2 | 4 | Methods to reduce friction. | N BARIK, L K DAS, K N SHARMA , Unit no4, Page No.-266 | <https://www.youtube.com/playlist?list=PLajrVxcKRJ5f4a7cJ-MetbIdZ64_5Sci-> | 1. Previous Class Topic Review-5min.
2. Lecture --45min.
3. Doubts & Asssignment -10min.
 | 13/02/2024 |  |  |
| 18 | 2 | 4 | Newton’s Laws of Gravitation – Statement and Explanation | K.N SHARMA , Unit no-5, Page No.-98-99 | <https://www.youtube.com/playlist?list=PLajrVxcKRJ5f4a7cJ-MetbIdZ64_5Sci-> | 1. Previous Class Topic Review-5min.
2. Lecture - Chalk & Duster-35min.
3. Doubts & Asssignment -5min.
 | 16/02/2024 |  |  |
| 19 | 2 | 2 | Universal Gravitational Constant (G)- Definition, Unit and Dimension | K.N SHARMA , Unit no-5, Page No.-98-99 | <https://www.youtube.com/playlist?list=PLajrVxcKRJ5f4a7cJ-MetbIdZ64_5Sci-> | 1. Previous Class Topic Review-5min.
2. Lecture - Chalk & Duster-45min.
3. Doubts & Asssignment -10min.
 | 17/02/2024 |  |  |
| 20 | 2 | 3 | Acceleration due to gravity (g)- Definition and Concept. Definition of mass and weight. | K.N SHARMA , Unit no-5, Page No.-99 | <https://www.youtube.com/playlist?list=PLajrVxcKRJ5f4a7cJ-MetbIdZ64_5Sci-> | 1. Previous Class Topic Review-5min.
2. Lecture - Chalk & Duster-45min.
3. Doubts & Asssignment -10min.
 | 20/02/2024 |  |  |
| 21 | 3 |  | Relation between g and G. Variation of g with altitude and depth (No derivation – Only Explanation). | K.N SHARMA , Unit no-5, Page No.-99-100 | <https://www.youtube.com/playlist?list=PLajrVxcKRJ5f4a7cJ-MetbIdZ64_5Sci-> | 1. Previous Class Topic Review-5min.
2. Lecture -Chalk & Duster-45min.
3. Doubts & Asssignment -10min.
 | 21/02/2024 |  |  |
| 22 | 3 | 2 | Kepler’s Laws of Planetary Motion (Statement only). | K.N SHARMA , Unit no-5, Page No.-97-98 | <https://www.youtube.com/playlist?list=PLajrVxcKRJ5f4a7cJ-MetbIdZ64_5Sci-> | 1. Previous Class Topic Review-5min.
2. Lecture -Chalk & Duster-45min.
3. Doubts & Asssignment -10min.
 | 23/02/2024 |  |  |
| 23 | 3 | 3 | Simple Harmonic Motion (SHM) - Definition & Examples. | K.N SHARMA , Unit no-6, Page No.-110-111 | <https://www.youtube.com/playlist?list=PLajrVxcKRJ5f4a7cJ-MetbIdZ64_5Sci-> | 1. Previous Class Topic Review-5min.
2. Lecture -Chalk & Duster-45min.
3. Doubts & Asssignment -10min.
 | 24/02/2024 |  |  |
| 24 | 3 | 2 | Expression (Formula/Equation) for displacement, velocity, acceleration of a body/ particle in SHM | K.N SHARMA , Unit no-1, Page No.-112-114 | <https://www.youtube.com/playlist?list=PLajrVxcKRJ5f4a7cJ-MetbIdZ64_5Sci-> | 1. Previous Class Topic Review-5min.
2. Lecture - Chalk &Duster -35min.
3. Doubts & Asssignment -5min.
4. QuizTest-15min.
 | 27/02/2024 |  |  |
| 25 | 3 | 2 |

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| Wave motion – Definition & Concept. |

Transverse and Longitudinal wave motion – Definition, Examples & Comparison. | K.N SHARMA , Unit no-1, Page No.-124-125 | <https://www.youtube.com/playlist?list=PLajrVxcKRJ5f4a7cJ-MetbIdZ64_5Sci-> | 1. Previous Class Topic Review-5min.
2. Lecture -Chalk & Duster-45min.
3. Doubts &Asssignment -10min.
 | 28/02/2024 |  |  |
| 26 | 3 | 2 | Definition of different wave parameters (Amplitude, Wavelength, Frequency, Time Period) | K.N SHARMA , Unit no-1, Page No.-126 | <https://www.youtube.com/playlist?list=PLajrVxcKRJ5f4a7cJ-MetbIdZ64_5Sci-> | 1. Previous Class Topic Review-5min.
2. Lecture - Chalk & Duster-45min.
3. Doubts & Asssignment -10min.
 | 01/03/2024 |  |  |
| 27 | 3 | 2 | Derivation of Relation between Velocity, Frequency and Wavelength of a wave | K.N SHARMA , Unit no-1, Page No.-126 | <https://www.youtube.com/playlist?list=PLajrVxcKRJ5f4a7cJ-MetbIdZ64_5Sci-> | 1. Previous Class Topic Review-5min.
2. Lecture -Chalk & Duster-45min.
3. Doubts & Asssignment -10min.
 | 02/03/2024 |  |  |

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| 28 | 3 | 3 | Ultrasonics – Definition, Properties & Applications | K.N SHARMA , Unit no-1, Page No.-135,138-139 | <https://www.youtube.com/playlist?list=PLajrVxcKRJ5f4a7cJ-MetbIdZ64_5Sci-> | 1. Previous Class Topic Review-5min.
2. Lecture -Chalk & Duster-25min.
3. Doubts & Asssignment -5min.
4. Previous Year Semester Question Discussion-25min.
 | 06/03/2024 |  |  |
| 29 | 3 | 3 | Heat and Temperature – Definition & DifferenceUnits of Heat (FPS, CGS, MKS & SI). | K.N SHARMA , Unit no-1, Page No.-154-155 | <https://www.youtube.com/playlist?list=PLajrVxcKRJ5f4a7cJ-MetbIdZ64_5Sci-> | 1. Previous Class Topic Review-5min.
2. Lecture -Chalk & Duster-25min.
3. Doubts & Asssignment -5min.
4. Previous Year Semester Question Discussion-25min.
 | 09/03/2024 |  |  |
| 30 | 3 | 2 | Specific HeatChange of state (concept), Latent Heat (concept, definition, unit, dimension and simplenumerical) | K.N SHARMA , Unit no-1, Page No.-155,157 | <https://www.youtube.com/playlist?list=PLajrVxcKRJ5f4a7cJ-MetbIdZ64_5Sci-> | 1. Previous Class Topic Review-5min.
2. Lecture -Chalk & Duster-25min.
3. Doubts & Asssignment -5min.
4. Previous Year Semester Question Discussion-25min.
 | 12/03/2024 |  |  |
| 31 | 3 | 1 | Thermal Expansion – Definition & Concept Expansion of Solids (Concept) | K.N SHARMA , Unit no-1, Page No.-163-164 | <https://www.youtube.com/playlist?list=PLajrVxcKRJ5f4a7cJ-MetbIdZ64_5Sci-> | 1. Previous Class Topic Review-5min.
2. Lecture -Chalk & Duster-45min.

3.Doubts&Asssignment -10min. | 13/03/2024 |  |  |
| 32 | 3 | 1 | Coefficient of linear, superficial and cubical expansions of Solids – Definition & Units | K.N SHARMA , Unit no-1, Page No.-164-166 | <https://www.youtube.com/playlist?list=PLajrVxcKRJ5f4a7cJ-MetbIdZ64_5Sci-> | 1. Previous Class Topic Review-5min.
2. Lecture -Chalk & Duster-35min.

3. Doubts & Asssignment -5min.4. SURPRISE TEST-1 | 15/03/2024 |  |  |
| 33 | 4 | 4 | Relation between **α**, **β** &**ϒ .** Work and Heat - Concept & Relation | K.N SHARMA , Unit no-1, Page No.-166 | <https://www.youtube.com/playlist?list=PLajrVxcKRJ5f4a7cJ-MetbIdZ64_5Sci-> | 1. Previous Class Topic Review-5min.
2. Lecture -Chalk & Duster-45min.

3.Doubts&Asssignment -10min. | 16/03/2024 |  |  |
| 34 | 4 | 1 | Joule’s Mechanical Equivalent of Heat (Definition, Unit) | K.N SHARMA , Unit no-1, Page No.-176-177 | <https://www.youtube.com/playlist?list=PLajrVxcKRJ5f4a7cJ-MetbIdZ64_5Sci-> | 1. Previous Class Topic Review-5min.
2. Lecture -Chalk & Duster-45min.

3.Doubts&Asssignment -10min. | 19/03/2024 |  |  |
| 35 | 4 | 2 | First Law of Thermodynamics (Statement and concept only) | K.N SHARMA , Unit no-1, Page No.-169-170 | <https://www.youtube.com/playlist?list=PLajrVxcKRJ5f4a7cJ-MetbIdZ64_5Sci-> | 1. Previous Class Topic Review-5min.
2. Lecture -Chalk & Duster-45min.

3.Doubts&Asssignment -10min. | 20/03/2024 |  |  |
| 36 | 4 | 2 | Reflection & Refraction – Definition ,Laws of reflection and refraction (Statement only), Refractive index – Definition , Formula & Simple numerical | K.N SHARMA , Unit no-1, Page No.-185,191-192 | <https://www.youtube.com/playlist?list=PLajrVxcKRJ5f4a7cJ-MetbIdZ64_5Sci-> | 1. Previous Class Topic Review-5min.
2. Lecture -Chalk & Duster-45min.

3.Doubts&Asssignment -10min. | 21/03/2024 |  |  |
| 37 | 4 | 2 |  Critical Angle and Total internal reflection – Concept, Definition & Explanation | K.N SHARMA , Unit no-1, Page No.-193 | <https://www.youtube.com/playlist?list=PLajrVxcKRJ5f4a7cJ-MetbIdZ64_5Sci-> | 1. Previous Class Topic Review-5min.
2. Lecture -Chalk & Duster-45min.

3.Doubts&Asssignment -10min. | 23/03/2024 |  |  |
| 38 | 4 | 1 | Refraction through Prism (Ray Diagram & Formula only – NO derivation). | K.N SHARMA , Unit no-1, Page No.-1 | <https://www.youtube.com/playlist?list=PLajrVxcKRJ5f4a7cJ-MetbIdZ64_5Sci-> | 1. Previous Class Topic Review-5min.
2. Lecture -Chalk & Duster-45min.

3.Doubts&Asssignment -10min. | 27/03/2024 |  |  |
| 39 | 4 | 3 | Fiber Optics – Definition, Properties & Applications. | K.N SHARMA , Unit no-1, Page No.-196-197 | <https://www.youtube.com/playlist?list=PLajrVxcKRJ5f4a7cJ-MetbIdZ64_5Sci-> | 1. Previous Class Topic Review-5min.
2. Lecture -Chalk & Duster-45min.

3.Doubts&Asssignment -10min. | 30/03/2024 |  |  |
| 40 | 4 | 2 | Electrostatics – Definition & Concept. Statement & Explanation of Coulombs laws, Definition of Unit charge | K.N SHARMA , Unit no-1, Page No.-231-234 | <https://www.youtube.com/playlist?list=PLajrVxcKRJ5f4a7cJ-MetbIdZ64_5Sci-> | 1. Previous Class Topic Review-5min.
2. Lecture -Chalk & Duster-45min.

3.Doubts&Asssignment -10min. | 02/03/2024 |  |  |
| 41 | 4 | 1 | Absolute & Relative Permittivity (**ε**) – Definition, Relation & Unit. Electric potential and Electric Potential difference (Definition, Formula & SI Units). | K.N SHARMA , Unit no-1, Page No.-232-233,240-242 | <https://www.youtube.com/playlist?list=PLajrVxcKRJ5f4a7cJ-MetbIdZ64_5Sci-> | 1. Previous Class Topic Review-5min.
2. Lecture -Chalk & Duster-45min.

3.Doubts&Asssignment -10min. | 03/03/2024 |  |  |
| 42 | 4 | 1 | Electric field, Electric field intensity (E) – Definition, Formula & Unit. Capacitance - Definition, Formula & Unit. | K.N SHARMA , Unit no-1, Page No.-235,236,249-250 | <https://www.youtube.com/playlist?list=PLajrVxcKRJ5f4a7cJ-MetbIdZ64_5Sci-> | 1. Previous Class Topic Review-5min.
2. Lecture -Chalk & Duster-45min.

3.Doubts&Asssignment -10min. | 05/03/2024 |  |  |
| 43 | 4 |  | Series and Parallel combination of Capacitors .Magnet, Properties of a magnet | K.N SHARMA , Unit no-1, Page No.-259-260,214-215 | <https://www.youtube.com/playlist?list=PLajrVxcKRJ5f4a7cJ-MetbIdZ64_5Sci-> | 1. Previous Class Topic Review-5min.
2. Lecture -Chalk & Duster-45min.

3.Doubts&Asssignment -10min. | 06/03/2024 |  |  |
| 44 | 5 | 2 | Coulomb’s Laws in Magnetism – Statement & Explanation, Unit Pole (Definition).Magnetic field,  | K.N SHARMA , Unit no-1, Page No.-215-216 | <https://www.youtube.com/playlist?list=PLajrVxcKRJ5f4a7cJ-MetbIdZ64_5Sci-> | 1. Previous Class Topic Review-5min.
2. Lecture -Chalk & Duster-45min.

3.Doubts&Asssignment -10min. | 09/03/2024 |  |  |
| 45 | 5 |  1 | Magnetic Field intensity (H)Magnetic lines of force ( Definition and Properties) | K.N SHARMA , Unit no-1, Page No.-216-218 | <https://www.youtube.com/playlist?list=PLajrVxcKRJ5f4a7cJ-MetbIdZ64_5Sci-> | 1. Previous Class Topic Review-5min.
2. Lecture -Chalk & Duster-45min.

3.Doubts&Asssignment -10min. | 10/03/2024 |  |  |
| 46 | 5 | 1 | Magnetic Flux (Φ) & Magnetic Flux Density (B) – Definition, Formula & Unit. | K.N SHARMA , Unit no-1, Page No.-221-225 | <https://www.youtube.com/playlist?list=PLajrVxcKRJ5f4a7cJ-MetbIdZ64_5Sci-> | 1. Previous Class Topic Review-5min.
2. Lecture -Chalk & Duster-45min.

3.Doubts&Asssignment -10min. | 12/03/2024 |  |  |
| 47 | 5 |  1 | Electric Current – Definition, Formula & SI Units | K.N SHARMA , Unit no-1, Page No.-269-270 | <https://www.youtube.com/playlist?list=PLajrVxcKRJ5f4a7cJ-MetbIdZ64_5Sci-> | 1. Previous Class Topic Review-5min.
2. Lecture -Chalk & Duster-45min.

3.Doubts&Asssignment -10min. | 13/03/2024 |  |  |
| 48 | 5 | 4 | Ohm’s law and its applications. | K.N SHARMA , Unit no-1, Page No.-271-272 | <https://www.youtube.com/playlist?list=PLajrVxcKRJ5f4a7cJ-MetbIdZ64_5Sci-> | 1. Previous Class Topic Review-5min.
2. Lecture -Chalk & Duster-45min.

3.Doubts&Asssignment -10min. | 15/03/2024 |  |  |
| 49 | 5 | 5 |

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| Series and Parallel combination of resistors (No derivation, Formula for effective/ |
| Combined/ total resistance & Simple numericals) |

 | K.N SHARMA , Unit no-1, Page No.-277 | <https://www.youtube.com/playlist?list=PLajrVxcKRJ5f4a7cJ-MetbIdZ64_5Sci-> | 1. Previous Class Topic Review-5min.
2. Lecture -Chalk & Duster-45min.

3.Doubts&Asssignment -10min. | 16/03/2024 |  |  |
| 50 | 5 | 2 | Kirchhoff’s laws (Statement & Explanation with diagram) | K.N SHARMA , Unit no-1, Page No.-278-279 | <https://www.youtube.com/playlist?list=PLajrVxcKRJ5f4a7cJ-MetbIdZ64_5Sci-> | 1. Previous Class Topic Review-5min.
2. Lecture -Chalk & Duster-45min.

3.Doubts&Asssignment -10min. | 19/03/2024 |  |  |
| 51 | 5 | 4 |

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| Application of  | Kirchhoff’s | laws to Wheatstone  | bridge  |

 | K.N SHARMA , Unit no-1, Page No.-280-281 | <https://www.youtube.com/playlist?list=PLajrVxcKRJ5f4a7cJ-MetbIdZ64_5Sci-> | 1. Previous Class Topic Review-5min.
2. Lecture -Chalk & Duster-45min.

3.Doubts & Asssignment -10min. | 20/03/2024 |  |  |
| 52 | 5 | 2 | Wheatstone bridge - Balanced condition ofWheatstone’s Bridge – Condition of Balance (Equation). | K.N SHARMA , Unit no-1, Page No.-281-282 | <https://www.youtube.com/playlist?list=PLajrVxcKRJ5f4a7cJ-MetbIdZ64_5Sci-> | 1. Previous ClassTopic Review-5min.
2. Lecture -Chalk & Duster-45min.

3.Doubts&Asssignment -10min. | 23/03/2024 |  |  |
| 53 | 5 |  1 | Electromagnetism – Definition & Concept. | K.N SHARMA , Unit no-1, Page No.- | <https://www.youtube.com/playlist?list=PLajrVxcKRJ5f4a7cJ-MetbIdZ64_5Sci-> | 1. Previous Class Topic Review-5min.
2. Lecture -Chalk & Duster-45min.

3.Doubts & Asssignment -10min. | 24/03/2024 |  |  |
| 54 | 5 |  2 | Force acting on a current carrying conductor placed in a uniform magnetic field, Fleming’s Left Hand Rule | K.N SHARMA , Unit no-1, Page No.-307-309 | <https://www.youtube.com/playlist?list=PLajrVxcKRJ5f4a7cJ-MetbIdZ64_5Sci-> | 1. Previous Class Topic Review-5min.
2. Lecture -Chalk & Duster-45min.

3.Doubts&Asssignment -10min. | 26/03/2024 |  |  |
| 55 | 5 |  | Faraday’s Laws of Electromagnetic Induction (Statement only)  | K.N SHARMA , Unit no-1, Page No.-316 | <https://www.youtube.com/playlist?list=PLajrVxcKRJ5f4a7cJ-MetbIdZ64_5Sci-> | 1. Previous Class Topic Review-5min.
2. Lecture -Chalk & Duster-45min.

3.Doubts & Asssignment -10min. | 27/03/2024 |  |  |
| 56 | 5 | 2 | Lenz’s Law (Statement)Fleming’s Right Hand Rule | K.N SHARMA , Unit no-1, Page No.-317,320 | <https://www.youtube.com/playlist?list=PLajrVxcKRJ5f4a7cJ-MetbIdZ64_5Sci-> | 1. Previous Class Topic Review-5min.
2. Lecture -Chalk & Duster-45min.

3.Doubts&Asssignment -10min. | 30/03/2024 |  |  |
| 57 | 5 | 4 | Comparison between Fleming’s Right Hand Rule and Fleming’s Left Hand Rule. | K.N SHARMA , Unit no-1, Page No.-309,320 | <https://www.youtube.com/playlist?list=PLajrVxcKRJ5f4a7cJ-MetbIdZ64_5Sci-> | 1. Previous Class Topic Review-5min.
2. Lecture -Chalk & Duster-45min.

3.Doubts&Asssignment -10min. | 03/04/2024 |  |  |
| 58 | 5 | 1 | LASER & laser beam (Concept and Definition) | K.N SHARMA , Unit no-1, Page No.-343-344 | <https://www.youtube.com/playlist?list=PLajrVxcKRJ5f4a7cJ-MetbIdZ64_5Sci-> | 1. Previous Class Topic Review-5min.
2. Lecture -Chalk & Duster-45min.

3.Doubts & Asssignment -10min. | 04/04/2024 |  |  |
| 59 | 5 | 4 | Principle of LASER (Population Inversion & Optical Pumping)Properties & Applications of LASER | K.N SHARMA , Unit no-1, Page No.-344-345 | <https://www.youtube.com/playlist?list=PLajrVxcKRJ5f4a7cJ-MetbIdZ64_5Sci-> | 1. Previous Class Topic Review-5min.
2. Lecture -Chalk & Duster-45min.

3.Doubts&Asssignment -10min. | 06/04/2024 |  |  |
| 60 | 5 | 1 | Wireless Transmission – Ground Waves, Sky Waves, Space Waves( Concept & Definition) | K.N SHARMA , Unit no-1, Page No.-362-363 | <https://www.youtube.com/playlist?list=PLajrVxcKRJ5f4a7cJ-MetbIdZ64_5Sci-> | 1. Previous Class Topic Review-5min.
2. Lecture -Chalk & Duster-35min.

3. Doubts & Asssignment -5min.4.SURPRISE TEST-2 | 07 /04/2024 |  |  |