Servini-2023-24 , SM&D	LESSON PLAN GOUT COLLEGE, M	YANGAL CHOUDHAR	TERY
DR. HEMANTKUMAR SHARMA DEPARTMENT OF PHYSIC	B. Sc. 16t year PAPER-IND (E	(IST Bemester) LECTRIGITY, MAGNETI & ELECTROMAGNET THEORY	TIC.
* SCALARS A * SCALARS A * TRIPPLE V * DIFFERNTI	EEK-444) FROM = (2) NOVECTORS, DOT FECTOR PRODUCT, TATION OF A VEC	1 JULY to 31 JULY) - & CROSS PRODUCT SCALAR AND VECTOR TOR.	 Fiel
* GRADIENT O * JNTEGRATIO	EK-IST) (31 JULY FA SCALAR AN N OF A VECTOR.	TO OF AUG) NO ITS PHYSICAL S	IGNI

* DERIVATION OF FIELD E FROM POTENTIAL AS GRADIENT.

* DERIVATION OF LAPLACE AND POISSON EQUATIONS -

* ELECTRIC FLUX, GAUSS'S LAW & IT'S APPLICA TO SAMERICAL SHELL.

=> WEER-54 [28AUGTO 2 SEP.]

* UNIFORMLY CHARGED INFINITE PLANE & UNIFOR CHARGED STRAIGHT WIRE.

P.T.O

* MECHANICAL FORCE OF CHARGED SURFACE

* ENERGY PER UNIT VOLUME

FROM: - 3004 +004 NOU 3. BASIC IDEA OF E.M. WAVE. NO DEREVATION OF E.M. MANE. LEEK-2nd (From: - OG NOV. to Il NON.) × POYNETENG VECTOR * POYNTENG THEOREM. ELEEK-3nd From: 17Nov TO 24NOV * REVISION & TEST *

Lesson plan 2023-24 Physics Paper -1 B.Sc.I Amar Singh (Extension Lecturer) SMSD GOVT COLLEGE NANGAL CHAUDHARY

4rth week of Month July Mechanics of single Mechanics of system of particles

1st week of Month August conservation of laws of linear momentum for a particle, conservation of laws of angular momentum for a particle, conservation of laws of mechanical energy for a particle,

2nd week of Month August

conservation of laws of linear momentum for system of particle, conservation of laws of angular momentum for system of particle, conservation of laws of mechanical energy for system of particle,

3rd week of Month August Centre of mass Equation of motion,

4rht week of Month August constrained motion, degrees of freedom.

1st week of Month September Generalised coordinates, Generalised displacement,

2nd week of Month September Generalised velocity, Generalised acceleration, Generalised momentum

3rd week of Month September Generalised force Generalised potential. Hamilton's variational principle 4rth week of Month September Lagrange's equation of motion from Hamilton's Principle.

1st week of Month October Linear Harmonic oscillator, Simple pendulum

2nd week of Month October Atwood's machine. Numerical problems

3rd week of Month October Rotation of Rigid body, Moment of inertia,

4rth week of Month October torque, angular momentum, kinetic energy of rotation.

1st week of Month November Theorems of perpendicular axes with proof. Theorems of parallel axes with proof.

2nd week of Month November Moment of inertia of solid sphere, hollow sphere

3rd week of Month November spherical shell, solid cylinder,

4rth week of Month November solid bar of rectangular cross-section. Acceleration of a body rolling down on an inclined plane.