

महाराणा प्रताप पी.जी. कालेज, जंगल धूसड़, गोरखपुर

कक्षा : बी.एस-सी. भाग-एक					विषय : भौतिकी
दिनांक	व्याख्यान	प्राध्यापक का नाम	प्रश्नपत्र	अध्याय	शीर्षक
01.08.2013	1	Maneeta Singh	III	Introduction	List of book
03.08.2013	2	Maneeta Singh	III	Magnetostatics	Biot-Savart's law, Ampere's law
05.08.2013	1	Maneeta Singh	II	Introduction	List of book
06.08.2013	1	Arvind Kumar Shukla	II	Introduction	List of book
07.08.2013	1	Arvind Kumar Shukla	I	Introduction	List of book
08.08.2013		Arvind Kumar Shukla		Class Teaching	
10.08.2013	3	Maneeta Singh	III	Magnetostatics	Magnetic field due to a straight wire, circular coil
12.08.2013	4	Maneeta Singh	III	Magnetostatics	Magnetic field due to Helmholtz's coils, solenoid, toroid
13.08.2013	2	Maneeta Singh	II	Free oscillation	Free oscillation, differential equation of SHM and its solution
14.08.2013	2	Arvind Kumar Shukla	II	Oscillation of coupled system	Normal modes of vibration of mechanical with degree
16.08.2013	2	Arvind Kumar Shukla	I	Dynamics of rigid bodies	Equation of motion of rigid body
17.08.2013		Arvind Kumar Shukla		Class Teaching	
19.08.2013	5	Maneeta Singh	III	Magnetostatics	Lorentz force, magnetisation
20.08.2013	6	Maneeta Singh	III	Magnetostatics	Magnetic permeability and susceptibility
22.08.2013	3	Maneeta Singh	II	Free Oscillation	Example of mechanical & electrical system
23.08.2013	3	Arvind Kumar Shukla	II	Oscillation of coupled system	Normal mode of vibration of electrical system with degree
24.08.2013	3	Arvind Kumar Shukla	I	Dynamics of rigid bodies	M.I. and radius of gyration
26.08.2013		Maneeta/Arvind		Evaluation	
27.08.2013	7	Maneeta Singh	III	Magnetostatics	Electromagnetic induction, induced electric field
29.08.2013	8	Maneeta Singh	III	Magnetostatics	Faraday's law, mutual induction
30.08.2013	4	Maneeta Singh	II	Free oscillation	Addition of S.H.M.
31.08.2013	4	Arvind Kumar Shukla	II	Oscillation of coupled system	Vibration of string
02.09.2013	4	Arvind Kumar Shukla	I	Dynamics of rigid bodies	Theorem of parallel axes
03.09.2013		Arvind Kumar Shukla		Class Teaching	
04.09.2013	9	Maneeta Singh	III	Magnetostatics	Integral and differential form of Faraday's law
05.09.2013	10	Maneeta Singh	III	Magnetostatics	Series and parallel combination of induction
06.09.2013	5	Maneeta Singh	II	Free oscillation	Lissajous figure
07.09.2013	5	Arvind Kumar Shukla	II	Oscillation of coupled system	Vibration of rectangular membrane
09.09.2013	5	Arvind Kumar Shukla	I	Dynamics of rigid bodies	The perpendicular axes

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10.09.2013		Arvind Kumar Shukla		Class Teaching	
11.09.2013	11	Maneeta Singh	III	Magnetostatics	Coupled circuits
12.09.2013	12	Maneeta Singh	III	Magnetostatics	Ideal transformer
13.09.2013	6	Maneeta Singh	II	Free Oscillation	Lissajous figures with frequency ratio 1:1 and 2:1
14.09.2013	6	Arvind Kumar Shukla	II	Oscillation of coupled system	Forced oscillation of coupled system
16.09.2013	6	Arvind Kumar Shukla	I	Dynamics of rigid bodies	M.I. of Ring and disc
17.09.2013		Arvind Kumar Shukla		Class Teaching	
20.09.2013	13	Maneeta Singh	III	Electromagnetic waves	Maxwell's equations
21.09.2013	14	Maneeta Singh	III	Electromagnetic wave	E.M. waves in vacuum, E.M. Field energy density
23.09.2013	7	Maneeta Singh	II	Damped harmonic oscillation	Mechanical and electrical system
24.09.2013	7	Arvind Kumar Shukla	II	Wave motion	Wave motion
25.09.2013	7	Arvind Kumar Shukla	I	Dynamics of rigid bodies	M.I. of rectangular beam
26.09.2013		Maneeta/Arvind		Evaluation	
27.09.2013	15	Maneeta Singh	III	Electromagnetic waves	Displacement current, poynting vector
28.09.2013	16	Maneeta Singh	III	A. C. Bridge	Introduction, J-operator
30.09.2013	8	Maneeta Singh	II	Damped harmonic oscillation	Logarithmic decrement, relaxation time, LCR circuit
01.10.2013	8	Arvind Kumar Shukla	II	Wave motion	Parameters of wave motion
03.10.2013	8	Arvind Kumar Shukla	I	Dynamics of rigid bodies	Hollow and solid cylinders
07.10.2013		Arvind Kumar Shukla		Class Teaching	
08.10.2013	17	Maneeta Singh	III	A.C. Bridge	Anderson's Bridge
09.10.2013	18	Maneeta Singh	III	A.C. Bridge	Schering, Robinson's Bridge
10.10.2013	9	Maneeta Singh	II	Damped Harmonic Oscillation	Moving coil galvanometer
11.10.2013	9	Arvind Kumar Shukla	II	Wave motion	Stationary waves
17.10.2013	9	Arvind Kumar Shukla	I	Dynamics of rigid bodies	Spherical shell
19.10.2013		Arvind Kumar Shukla		Class Teaching	
21.10.2013	19	Maneeta Singh	III	A.C. Bridge	Wein's bridge
22.10.2013	20	Maneeta Singh	III	Network analysis	T and π networks
23.10.2013	10	Maneeta Singh	II	Forced oscillation	Forced oscillation of mechanical system
24.10.2013	10	Arvind Kumar Shukla	II	Wavemotion	Wave velocity and group velocity
25.10.2013	10	Arvind Kumar Shukla	I	Dynamics of rigid bodies	Solid and hollow spheres

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26.10.2013		Maneeta/Arvind		Evaluation	
28.10.2013	21	Maneeta Singh	III	Network Analysis	Equivalence of T and π network
29.10.2013	22	Maneeta Singh	III	Network Analysis	Thevenin's theorems
30.10.2013	11	Maneeta Singh	II	Forced Oscillation	Forced oscillation of electrical system
06.11.2013	11	Arvind Kumar Shukla	II	Ultrasonic	Production
07.11.2013	11	Arvind Kumar Shukla	I	Dynamics of rigid bodies	M.I. of Fly wheel
08.11.2013		Arvind Kumar Shukla		Class Teaching	
09.11.2013	23	Maneeta Singh	III	Network Analysis	Norton's Theorem
11.11.2013	24	Maneeta Singh	III	Network Analysis	Maximum Power Transfer Theorem
12.11.2013	12	Maneeta Singh	II	Forced Oscillation	Sharpness of resonance
15.11.2013	12	Arvind Kumar Shukla	II	Ultrasonic	Peroperties of Ultrasonic wave
16.11.2013	12	Arvind Kumar Shukla	I	Dynamics of rigid bodies	Compound pendulum
18.11.2013		Arvind Kumar Shukla		Class Teaching	
19.11.2013	25	Maneeta Singh	III	Network Analysis	Low Pass Filters
20.11.2013	26	Maneeta Singh	III	Network Analysis	High Pass Filters
21.11.2013	13	Maneeta Singh	II	Forced Oscillation	Quality Factor (Q)
22.11.2013	13	Arvind Kumar Shukla	II	Ultrasonic	Uses of Ultrasonic Wave
23.11.2013	13	Arvind Kumar Shukla	I	Elasticity	Elastic Constant and their mutual relations
25.11.2013		Maneeta/Arvind		Evaluation	
26.11.2013	27	Maneeta Singh	III	Electrostatics	Field due to charge distribution
27.11.2013	28	Maneeta Singh	III	Electrostatics	Electric field due to uniform distribution of line
28.11.2013	14	Maneeta Singh	II	Forced Oscillation	Electrical Impdance
29.11.2013	14	Arvind Kumar Shukla	II	Ultrasonic	Acoustic Grating
30.11.2013	14	Arvind Kumar Shukla	I	Elasticity	Theory of Bending of beam
02.12.2013		Arvind Kumar Shukla		Class Teaching	
03.12.2013	29	Maneeta Singh	III	Electrostatics	Sheet charge and spherical charge
06.12.2013	30	Maneeta Singh	III	Electrostatics	Gauss's Law and its application
07.12.2013	15	Maneeta Singh	II	Forced oscillation	LCR series resonance
09.12.2013	15	Arvind Kumar Shukla	II	Acoustics	The Acoustics of Halls
11.12.2013	15	Arvind Kumar Shukla	I	Elasticity	Torsion of Cylinder

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12.12.2013		Arvind Kumar Shukla		Class Teaching	
13.12.2013	31	Maneeta Singh	III	Electrostatics	Multiple expansion, electrostatic pressure
14.12.2013	16	Maneeta Singh	II	Forced Oscillation	LCR Parallel Resonance
16.12.2013	16	Arvind Kumar Shukla	II	Acoustics	Reverberation Time
17.12.2013	16	Arvind Kumar Shukla	I	Properties of liquids	Steam line motion, Reynold number
18.12.2013	17	Arvind Kumar Shukla	I	Properties of liquids	Poiseuille's Equation
19.12.2013		Maneeta Singh		Class Teaching	
20.12.2013	32	Maneeta Singh	III	Electrostatics	Electrostatic field energy, method of images
21.12.2013	17	Maneeta Singh	II	Fourier Analysis	Fourier Theorem, Evaluation of Fourier coefficient
23.12.2013	17	Arvind Kumar Shukla	II	Acoustics	Sabine's Formula
24.12.2013	18	Arvind Kumar Shukla	I	Properties of liquids	Surface Tension
26.12.2013	19	Arvind Kumar Shukla	I	Properties of liquids	Molecular interpretation of surface tension
27.12.2013		Arvind/Maneeta		Evaluation	
28.12.2013	33	Maneeta Singh	III	Electric Field inside matter	Dielectrics, Parallel Plate Capacitor
30.12.2013	18	Maneeta Singh	II	Fourier Analysis	Analysis of Square wave
31.12.2013	20	Arvind Kumar Shukla	I	Properties of liquids	Pressure over curved surfaces
01.01.2014	21	Arvind Kumar Shukla	I	Properties of liquids	Capillarity
02.01.2014	22	Arvind Kumar Shukla	I	Properties of liquids	Jager's Method
04.01.2014		Maneeta Singh		Class Teaching	
06.01.2014	34	Maneeta Singh	III	Electric field inside matter	Polarization, Electronic, Ionic and Orientational Polarization
07.01.2014	19	Maneeta Singh	II	Fourier Analysis	Analysis of Sawtooth wave
08.01.2014	23	Arvind Kumar Shukla	I	Central Forces	Inverse square law
09.01.2014	24	Arvind Kumar Shukla	I	Central Forces	Potential and field due to (i) Spherical Shell (ii) Sphere
10.01.2014	25	Arvind Kumar Shukla	I	Central Forces	Gravitational Self Energy
11.01.2014		Arvind/Maneeta		Class Teaching	
13.01.2014	35	Maneeta Singh	III	Electric Field inside matter	Polarisability
15.01.2014	20	Maneeta Singh	II	Fourier Analysis	Analysis of Half wave rectifier
16.01.2014	26	Arvind Kumar Shukla	I	Central forces	Two body problem and reduced Mass
17.01.2014	27	Arvind Kumar Shukla	I	Central forces	Kepler's Law, motion of a satellites
18.01.2014	28	Arvind Kumar Shukla	I	Central forces	Geostationary Satellite

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20.01.2014		Maneeta Singh		Class Teaching	
21.01.2014	36	Maneeta Singh	III	Electric field inside matter	Polarization $\vec{P}$, Displacement vector D
22.01.2014	21	Maneeta Singh	II	Fourier Analysis	Analysis of Full wave rectifier
23.01.2014	29	Arvind Kumar Shukla	I	Newtonian Mechanics	Inertial and Non inertial frame of references
24.01.2014	30	Arvind Kumar Shukla	I	Newtonian Mechanics	Galilean Transformation, Velocity and Acceleration
25.01.2014	31	Arvind Kumar Shukla	I	Newtonian Mechanics	Rotating Coordinate system
27.01.2014		Maneeta/Arvind		Evaluation	
28.01.2014	37	Maneeta Singh	III	Electric field inside matter	Electric Susceptibility
29.01.2014	32	Arvind Kumar Shukla	I	Newtonian Mechanics	Coriolis force, effect of rotation of Earth on g
30.01.2014	33	Arvind Kumar Shukla	I	Newtonian Mechanics	Foucault Pendulum
31.01.2014	34	Arvind Kumar Shukla	I	Special theory of relativity	Michelson-Moreley Experiment
01.02.2014	35	Arvind Kumar Shukla	I	Special theory of relativity	Principle of Simultaneity
03.02.2014		Maneeta Singh		Class Teaching	
04.02.2014	38	Maneeta Singh	III	Electric field inside matter	Clausius-Mossotti Equation
05.02.2014	36	Arvind Kumar Shukla	I	Special theory of relativity	Postulates of special theory of Relativity, Lorentz transformation
06.02.2014	37	Arvind Kumar Shukla	I	Special theory of relativity	Length contraction, Time Dilation, Addition of velocities
07.02.2014	38	Arvind Kumar Shukla	I	Special theory of relativity	Doppler's & Effect, Aberration of light
08.02.2014	39	Arvind Kumar Shukla	I	Relativistic Dynamics	Relativistic Momentum, Variation of Mass with Velocity
10.02.2014		Arvind Kumar Shukla		Class Teaching	
11.02.2014	40	Arvind Kumar Shukla	I	Relativistic Dynamics	Mass Energy Equivalence
12.02.2014	41	Arvind Kumar Shukla	I	Relativistic Dynamics	Transformation of Momentum
13.02.2014	42	Arvind Kumar Shukla	I	Relativistic Dynamics	Transformation of Energy
14.02.2014	43	Arvind Kumar Shukla	I	Relativistic Dynamics	Relativistic Energy