

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

कक्षा : बी.एस-सी. भाग-एक			पाठ्यक्रम योजना : सत्र २०१४-२०१५		विषय : भौतिकी (Physics)
दिनांक	व्याख्यान	प्राध्यापक का नाम	प्रश्नपत्र	अध्याय	शीर्षक
02-08-2014	1	Maneeta Singh	III	Intoduction	List of books
04-08-2014	2	Maneeta Singh	III	Magnetostatics	Biot-Savart's Law
05-08-2014	1	Maneeta Singh	II	Intoduction	List of books
06-08-2014	1	Amit Kumar	II	Intoduction	List of books
07-08-2014	1	Amit Kumar	I	Intoduction	List of books
08-08-2014		Amit Kumar		CLASS TEACHING	
09-08-2014	3	Maneeta Singh	III	Magnetostatics	Magnetic field due to a straight wire, circular coil
11-08-2014	4	Maneeta Singh	III	Magnetostatics	Magnetic field due to Helmholtz coils, solenoid, toroid
12-08-2014	2	Maneeta Singh	II	Free Oscillation	Free Oscillation, differential equation of SHM & its solution
13-08-2014	2	Amit Kumar	II	Oscillation of coupled system	Normal modes of vibration of mechanical with degree
14-08-2014	2	AMIT KUMAR	I	Dynamics of rigid bodies	Equation of motion of rigid body
16-08-2014		AMIT KUMAR		CLASS TEACHING	
19-08-2014	5	Maneeta Singh	III	Magnetostatics	Lorentz force, magnetisation
20-08-2014	6	Maneeta Singh	III	Magnetostatics	Magnetic permeability and susceptibility
21-08-2014	3	Maneeta Singh	II	Free Oscillation	Example of mechanical & electrical system
22-08-2014	3	AMIT KUMAR	II	Oscillation of coupled system	Normal mode of vibration of electrical system with degree
23-08-2014	3	AMIT KUMAR	III	Dynamics of rigid bodies	M.I. and radius of gyration
25-08-2014		Maneeta / Amit		MONTHLY EVALUATION	
26-08-2014	7	Maneeta Singh	III	Magnetostatics	Electromagnetic induction, induced electric field
27-08-2014	8	Maneeta Singh	III	Magnetostatics	Faraday's law, mutual induction
28-08-2014	4	Maneeta Singh	II	Free Oscillation	Addition of S.H.M.
29-08-2014	4	AMIT KUMAR	II	Oscillation of coupled system	Vibration of string
30-08-2014	4	AMIT KUMAR	III	Dynamics of rigid bodies	Theorem of parallel axes
01-09-2014				CLASS TEACHING	
02-09-2014	9	Maneeta Singh	III	Magnetostatics	Integral and differential form of Faraday's law
03-09-2014	10	Maneeta Singh	III	Magnetostatics	Series and parallel combination of induction
04-09-2014	5	Maneeta Singh	II	Free Oscillation	Lissajous figure
05-09-2014	5	AMIT KUMAR	II	Oscillation of coupled system	Vibration of rectangular membrane
06-09-2014	5	AMIT KUMAR	III	Dynamics of rigid bodies	The perpendicular axes
10-09-2014		AMIT KUMAR		CLASS TEACHING	

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12-09-2014	11	Maneeta Singh	III	Magnetostatics	Coupled circuits
13-09-2014	12	Maneeta Singh	III	Magnetostatics	Ideal transformer
16-09-2014	6	Maneeta Singh	II	Free Oscillation	Lissajous figures with frequency ratio 1:1 and 2:1
18-09-2014	6	AMIT KUMAR	II	Oscillation of coupled system	Forced oscillation of coupled system
19-09-2014	6	AMIT KUMAR	I	Dynamics of rigid bodies	M.I. of Ring and disc
20-09-2014		AMIT KUMAR		CLASS TEACHING	
22-09-2014	13	Maneeta Singh	III	Electromagnetic waves	Maxwell's equations
24-09-2014	14	Maneeta Singh	III	Electromagnetic waves	E.M. waves in vacuum, E.M. Field energy density
26-09-2014	7	Maneeta Singh	II	Damped harmonic oscillation	Mechanical and electrical system
27-09-2014	7	AMIT KUMAR	II	Wave motion	Wave motion
29-09-2014	7	AMIT KUMAR	I	Dynamics of rigid bodies	M.I. of Rectangular beam
30-09-2014		Maneeta / Amit		MONTHLY EVALUATION	
01-10-2014	15	Maneeta Singh	III	Electromagnetic waves	Displacement current, poynting vector
07-10-2014	16	Maneeta Singh	III	A.C. Bridge	Introduction, J-operator
09-10-2014	8	Maneeta Singh	II	Damped harmonic oscillation	Lagorithmic decrement, relaxation time, LCR circuit
10-10-2014	8	AMIT KUMAR	II	Wave motion	Parameters of wave motion
11-10-2014	8	AMIT KUMAR	I	Dynamics of rigid bodies	Hollow and solid cylinders
13-10-2014		AMIT KUMAR		CLASS TEACHING	
14-10-2014	17	Maneeta Singh	III	A.C. Bridge	Anderson's Bridge
15-10-2014	18	Maneeta Singh	III	A.C. Bridge	Schering, Robinson's Bridge
16-10-2014	9	Maneeta Singh	II	Damped harmonic oscillation	Moving coil galvanometer
17-10-2014	9	AMIT KUMAR	II	Wave motion	Stationary waves
18-10-2014	9	AMIT KUMAR	I	Dynamics of rigid bodies	Spherical shell
27-10-2014				MONTHLY EVALUATION	
28-10-2014	19	Maneeta Singh	III	A.C. Bridge	Wein's bridge
30-10-2014	20	Maneeta Singh	III	Network analysis	T and p networks
31-10-2014	10	Maneeta Singh	II	Forced oscillation	Forced oscillation of mechanical system
01-11-2014	10	AMIT KUMAR	II	Wave motion	Wave velocity and group velocity
07-11-2014	10	AMIT KUMAR	I	Dynamics of rigid bodies	Solid and hollow spheres
08-11-2014		Maneeta/AMIT		CLASS TEACHING	

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10-11-2014	21	Maneeta Singh	III	Network Analysis	Equivalence of T and π network
11-11-2014	22	Maneeta Singh	III	Network Analysis	Thevenin's theorems
12-11-2014	11	Maneeta Singh	II	Forced oscillation	Forced oscillation of electrical system
13-11-2014	11	AMIT KUMAR	II	Ultrasonic	Production
14-11-2014	11	AMIT KUMAR	I	Dynamics of rigid bodies	M.I. of Fly wheel
15-11-2014				CLASS TEACHING	
17-11-2014	23	Maneeta Singh	III	Network Analysis	Norton's Theorem
18-11-2014	24	Maneeta Singh	III	Network Analysis	Maximum Power Transfer Theorem
19-11-2014	12	Maneeta Singh	II	Forced oscillation	Sharpness of resonance
20-11-2014	12	AMIT KUMAR	II	Ultrasonic	Properties of Ultrasonic wave
21-11-2014	12	AMIT KUMAR	I	Dynamics of rigid bodies	Compound pendulum
22-11-2014				MONTHLY EVALUATION	
25-11-2014	25	Maneeta Singh	III	Network Analysis	Low Pass Filters
26-11-2014	26	Maneeta Singh	III	Network Analysis	High Pass Filters
27-11-2014	13	Maneeta Singh	II	Forced oscillation	Quality Factor (Q)
28-11-2014	13	AMIT KUMAR	II	Ultrasonic	Uses of Ultrasonic Wave
29-11-2014	13	AMIT KUMAR	I	Elasticity	Elastic Constant and their mutual relations
01-12-2014		Maneeta /Amit		CLASS TEACHING	
02-12-2014	27	Maneeta Singh	III	Electrostatics	Field due to charge distribution
03-12-2014	28	Maneeta Singh	III	Electrostatics	Electric field due to uniform distribution of line charge
06-12-2014	14	Maneeta Singh	II	Forced oscillation	Electrical Impedance
08-12-2014	14	AMIT KUMAR	II	Ultrasonic	Acoustic Grating
09-12-2014	14	AMIT KUMAR	I	Elasticity	Theory of Bending of beam
11-12-2014		AMIT KUMAR		CLASS TEACHING	
12-12-2014	29	Maneeta Singh	III	Electrostatics	Sheet charge and spherical charge
15-12-2014	30	Maneeta Singh	III	Electrostatics	Gauss's Law and its application
16-12-2014	15	Maneeta Singh	II	Forced oscillation	LCR series resonance
17-12-2014	15	AMIT KUMAR	II	Acoustics	The Acoustics of Halls
18-12-2014	15	AMIT KUMAR	I	Elasticity	Torsion of Cylinder
19-12-2014		AMIT KUMAR		CLASS TEACHING	

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20-12-2014	31	Maneeta Singh	III	Electrostatics	Multiple expansion,
22-12-2014	16	Maneeta Singh	II	Forced Oscillation	LCR Parellel Resonance
23-12-2014	16	AMIT KUMAR	II	Acoustics	Reverberation of Time
24-12-2014	16	AMIT KUMAR	I	Properties of liquids	Steam line motion, Reynold number
26-12-2014	17	AMIT KUMAR	I	Properties of liquids	Poiseuille's Equation
27-12-2014		Maneeta Singh		MONTHLY EVALUATION	
29-12-2014	32	Maneeta Singh	III	Electrostatics	Electrostatic field energy, method of images
30-12-2014	17	Maneeta Singh	II	Fourier Analysis	Fourier Theorem, Evaluation of Fourier coefficient
31-12-2014	17	AMIT KUMAR	II	Acoustics	Sabine's Formula
01-01-2015	18	AMIT KUMAR	I	Properties of liquids	Surface Tension
02-01-2015	19	AMIT KUMAR	I	Properties of liquids	Molecular interpretation of surface tension
03-01-2015		AMIT KUMAR		CLASS TEACHING	
06-01-2015	33	Maneeta Singh	III	Electric field inside matter	Dielectrics, Parellel Plate Capacitor
07-01-2015	18	Maneeta Singh	II	Fourier Analysis	Analysis of Square wave
08-01-2015	20	AMIT KUMAR	I	Properties of liquids	Pressure over curved surfaces
09-01-2015	21	AMIT KUMAR	I	Properties of liquids	Capillarity
10-01-2015	22	AMIT KUMAR	I	Properties of liquids	Jager's Method
12-01-2015		Maneeta Singh		CLASS TEACHING	
13-01-2015	34	Maneeta Singh	III	Electric field inside matter	Polarization, Electronic, Ionic and Orientational Polarization
17-01-2015	19	Maneeta Singh	II	Fourier Analysis	Analysis of Sawtooth wave
19-01-2015	23	AMIT KUMAR	I	Central Forces	Inverse Square law
20-01-2015	24	AMIT KUMAR	I	Central Forces	Potential and field due to (i) Spherical Shell (ii) Sphere
21-01-2015	25	AMIT KUMAR	I	Central Forces	Gravitational Self Energy
22-01-2015		Maneeta Singh		CLASS TEACHING	
23-01-2015	35	Maneeta Singh	III	Electric field inside matter	Polarisability
27-01-2015	26	AMIT KUMAR	I	Central Forces	Two body problem and reduced Mass
28-01-2015	27	AMIT KUMAR	I	Central Forces	Kepler's Law, motion of a satellites
29-01-2015	28	AMIT KUMAR	I	Central Forces	Geostationary Satellite
30-01-2015	36	Maneeta Singh	III	Electric field inside matter	Polarization $\vec{P}$, Displacement Vector $\vec{D}$
31-01-2015		Maneeta Singh		MONTHLY EVALUATION	

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02-02-2015	20	Maneeta Singh	II	Fourier Analysis	Amalysis of full wave rectifier	
03-02-2015	29	AMIT KUMAR	I	Newtonian Mechanics	Inertial & non-inertial frame of references, Galilean Transformation	
04-02-2015	30	AMIT KUMAR	I	Newtonian Mechanics	Velocity & Acceleration, Rotating coordinate system	
05-02-2015	31	AMIT KUMAR	I	Newtonian Mechanics	Carioles force, Effect of rotation on Earth on g, Foucault Pendulum	
06-02-2015	37	Maneeta Singh	III	Electric field inside matter	Electric suceptibility, C.M.EQ	
07-02-2015		Maneeta Singh		CLASS TEACHING		
09-02-2015	32	AMIT KUMAR	I	Special theory of Helativity	Michelson-Moreley experiment Principle of simultaneity	
10-02-2015	33	AMIT KUMAR	I	Special theory of Helativity	Doppler's effect, Abberation of light Time dilation, Addition of velocity	
11-02-2015	34	AMIT KUMAR	I	Special theory of Helativity	Postulates of special theory of relativity, Lorentz transformation, Length constraction	
12-02-2015	35	AMIT KUMAR	I	Relativistic Dynamics	Relativistic momentum, Variation of mass with velocity	
13-02-2015	36	AMIT KUMAR	I	Relativistic Dynamics	Transformation of momentum & energy	
14-02-2014	37	AMIT KUMAR	I	Relativistic Dynamics	Mass Energy Equivalence, Relativistic energy.d	