

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

कक्षा : बी.एस-सी. भाग-तीन			पाठ्यक्रम योजना : सत्र २०१४-२०१५		विषय : भौतिकी
दिनांक	व्याख्यान	प्राध्यापक का नाम	प्रश्नपत्र	अध्याय	शीर्षक
16.07.2014	1	Amit Mishra	I	Introduction	List of books
17.07.2014	2	Amit Mishra	I	Classical mechanics	Conservation theorem
18.07.2014	1	Maneeta Singh	II	Introduction	List of books
18.07.2014	1	Maneeta Singh	III	Introduction	List of books
18.07.2014	2	Maneeta Singh	II	Schrodinger equation	Time independent equation
19.07.2014	2	Maneeta Singh	III	Statistical of thermodynamics	Phase space J M-space, r-space
21.07.2014	1	Amit Mishra	IV	Introduction	List of books
22.07.2014		Amit Mishra		Class Teaching	
23.07.2014	3	Amit Mishra	I	System of particle	Constraints & generalised coordinates
24.07.2014	4	Amit Mishra	I	System of particle	D-alembert principle
26.07.2014	3	Maneeta Singh	II	Schrodinger equation	Time-depedent equation
26.07.2014	3	Maneeta Singh	III	Statistical bases of thermodynamics	Ensemble
28.07.2014	4	Maneeta Singh	II	Schrodinger equation	Postulate of Q.M. superposition principle
30.07.2014	2	Amit Mishra	IV	Atomic spectra of two systems	Coupling scheme
31.07.2014		Amit Mishra		Class Teaching	
02.08.2014	5	A.K.M.	I	System of particles	Langrange's equation
02.08.2014	4	Maneeta Singh	III	Statistical basis of thermodynamics	Ergodic surface
04.08.2014	6	Amit Mishra	I	System of particle	Generalised momenta
05.08.2014	5	Maneeta Singh	II	Schrodinger equation	Physical interpretation of wave function
06.08.2014	6	Maneeta Singh	II	Schrodinger equation	Normalization, orthogonality
07.08.2014	3	Amit Mishra	IV	Atomic spectra of two system	Spin orbit interaction energy
08.08.2014		Amit Mishra		Class Teaching	
08.08.2014	5	Maneeta Singh	III	Statistical basis of thermodynamics	Ensemble average, density of states
09.08.2014	7	Amit Mishra	I	System of particle	Principle of least action
09.08.2014	6	Maneeta Singh	III	Statistical basis of thermodynamics	Liouville's theorem
11.08.2014	8	Amit Mishra	I	System of particle	Langrangian for a free particle

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12.08.2014	7	Maneeta Singh	II	Schrodinger equation	Expectation value
13.08.2014	8	Maneeta Singh	II	Schrodinger equation	Probability current density
14.08.2014	4	Amit Mishra	IV	Atomic spectra of two particle system	Zeeman effect
16.08.2014		Amit Mishra		Class Teaching	
16.08.2014	7	Maneeta Singh	III	Statistical basis of thermodynamics	Liouville's theorem : 2 nd part
19.08.2014	9	Amit Mishra	I	System of two particles	Remaining portion & discussion
20.08.2014	10	Amit Mishra	I	Two body problem	Reduction to one body problem
21.08.2014	9	Maneeta Singh	II	Schrodinger equation	Ehrenfest's theorem
22.08.2014	10	Maneeta Singh	II	Schrodinger equation	Degeneracy & parity
22.08.2014	8	Maneeta Singh	III	Statistical basis of thermodynamics	Statistical equilibrium
23.08.2014	5	Amit Mishra	IV	Two valence system	Paschen back effect
23.08.2014	9	Amit Mishra	III	Thermodynamic equilibrium	Probability and entropy
25.08.2014		Maneeta/Amit		Class Teaching/Evaluation	
26.08.2014	11	Amit Mishra	I	Two body problem	Centre of mass
27.08.2014	12	Amit Mishra	I	Two body problem	Kepler's law
28.08.2014	11	Maneeta Singh	II	Operator	Linear operation, product of two operator
29.08.2014	12	Maneeta Singh	II	Operator	Simultaneous eigen function
29.08.2014	10	Maneeta Singh	III	Thermodynamic equilibrium	Boltzman entropy relation
30.08.2014	6	Amit Mishra	IV	Two valence system	Spectra of alkali earth elements
30.08.2014	11	Maneeta Singh	III	Thermodynamical equilibrium	Statistical interpretation of 2 nd law of thermodynamics
01.09.2014		Amit Mishra		Class Teaching	
02.09.2014	13	Amit Mishra	I	Two body problem	Kepler's problem
03.09.2014	14	Amit Mishra	I	Canonical formulation	Hamilton's equation
04.09.2014	13	Maneeta Singh	II	Operator	Commutator, hermitian operator
05.09.2014	14	Maneeta Singh	II	Operator	Properties of hermitian operator
05.09.2014	12	Maneeta Singh	III	Thermodynamic equilibrium	M.B. distribution

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06.09.2014	7	Amit Mishra	IV	Atomic spectra of one valence system	Atomic spectra of alkali metals
06.09.2014	13	Maneeta Singh	III	Thermodynamic equilibrium	M.B. distribution of speed in an ideal gas
10.09.2014		Amit Mishra		Class Teaching	
12.09.2014	15	Amit Mishra	I	Canonical formulation	Canonical transformation
12.09.2014	14	Amit Mishra	II	Thermodynamic equilibrium	Different cases of M.B. distribution
13.09.2014	16	Amit Mishra	I	Cannonical form ulation	Poisson's bracket, angular momentum\
13.09.2014	15	Amit Mishra	III	Quantum statistics	M. B. distribution
16.09.2014	15	Maneeta Singh	II	Operator	Angular momentum operator
18.09.2014	16	Maneeta Singh	II	Simple one-D problem	Particle in a box
19.09.2014	8	Amit Mishra	IV	Atomic spectra of one valence system	Zeeman effect
19.09.2014	16	Maneeta Singh	III	Quantum statistics	Fermi-Dirac distribution
20.09.2014		Amit Mishra		Class Teaching	
20.09.2014	17	Maneeta Singh	III	Quantum statistics	B.E. distribution
22.09.2014	17	Amit Mishra	I	Canonical formulation	Hamilton principle function & hamilton jacobi equation
24.09.2014	18	Amit Mishra	I	Canonical formulation	Harmonic oscillator problem
26.09.2014	17	Maneeta Singh	II	Simple one-D problem	Step potential
26.09.2014	18	Maneeta Singh	III	Quantum statistics	Difference between three distribution
27.09.2014	18	Maneeta Singh	II	Simple one-D problem	Rectangular barrier
27.09.2014	9	Amit Mishra	IV	Atomic spectra of one valence of system	Paschen-Back effect
29.10.2014	10	Amit Mishra	IV	Atomic spectra of one valence of system	Spin-orbital interaction
30.10.2014		Amit Mishra		Monthly Evaluation	
01.10.2014	20	Amit Mishra	I	Motion of rigid bodies	Angular momentum, inertiatensor
07.10.2014	19	Amit Mishra	I	Motion of rigid bodies	Torque free motion of a rigid body
09.10.2014	20	Maneeta Singh	II	Simple one-D problem	Penetration through rectangular barrier
10.10.2014	10	Maneeta Singh	II	Simple one-D problem	Transmission coefficient

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

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10.10.2014	19	Maneeta Singh	III	Quantum statistics	Planck's law
11.10.2014	11	Amit Mishra	IV	Atomic spectra of one valence & system	Stark's effect
11.10.2014	20	Maneeta Singh	III	Quantum statistics	Cell size, saha theory
13.10.2014		Amit Mishra		Class Teaching	
14.10.2014	20	Amit Mishra	I	Motion of rigid bodies	Symmetrical top precession
15.10.2014	21	Amit Mishra	I	Curvi linear coordinates	Tangent basis vectors, scale factor
16.10.2014	11	Maneeta Singh	II	Simple one-D problem	Q.M. tunneling
17.10.2014	12	Maneeta Singh	II	Simple one-D problem	Particle in a finite potential well
17.10.2014	21	Maneeta Singh	III	Quantum statistics	R-D equation
18.10.2014	12	Amit Mishra	IV	Atomic spectra of one valence system	Electron spin & fine structure
18.10.2014	22	Maneeta Singh		Laser & Maser	Stimulated & spantaneous emusion
27.10.2014		Amit/Maneeta		Monthly Evaluation	
28.10.2014	22	Amit Mishra	I	Curvilinear coordinates	Spherical coordinate system
30.10.2014	23	Amit Mishra	I	Curvilinear coordinates	Polar & cyclindrical coordinate system
31.10.2014	13	Maneeta Singh	II	One-D- harmonic oscillator	Linear harmonic oscillator
31.10.2014	23	Maneeta Singh	III	Laser & Maser	Eienstein coefficient
01.11.2014	14	Maneeta Singh	II	One-D harmonic oscillator	Ground & excited states, zero point energy
01.11.2014	24	Maneeta Singh	III	Laser & Maser	Population inversion
07.11.2014	13	Amit Mishra	IV	Atomic model	Sommer fields model
07.11.2014	25	Maneeta Singh	III	Laser & Maser	Cavity, basic concept of laser
08.11.2014		Amit Mishra		Class Teaching	
08.11.2014	26	Maneeta Singh	III	Laser & maser	Three level laser
10.11.2014	24	Amit Mishra	I	Curvilinear coordinate	Gradient of scalar, curl & divergent
11.11.2014	25	Amit Mishra	I	Curvilinear coordinate	Laplace equation in spherical polar & cylindrical coordinate system
12.11.2014	15	Maneeta Singh	II	Matter and radiation	Photoelectric effect
13.11.2014	16	Maneeta Singh	II	Matter and radiation	Compton effect
14.11.2014	14	Amit Mishra	IV	Atomic model	Vector atom model

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

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15.11.2014		Maneeta Singh		Class Teaching	
15.11.2014	27	Maneeta Singh	III	Laser & maser	Ruby laser
17.11.2014	26	Amit Mishra	I	Special functions	Legendre generating function
18.11.2014	27	Amit Mishra	I	Special functions	Legendre differential equation
19.11.2014	17	Maneeta Singh	II	Matter and radiation	Debroglie's hypothesis
20.11.2014	15	Amit Mishra	IV	Atomic model	Pauli's exclusion principle
21.11.2014	16	Amit Mishra	IV	Atomic model	Fine structure of H α line
21.11.2014	28	Maneeta Singh	III	Laser & master	He-Ne Laser
22.11.2014		Maneeta/Amit		Class Teaching	
22.11.2014	28	Amit Mishra	I	Special function	Rearrance relation
25.11.2014	29	Amit Mishra	I	Special function	Rodrigu's formula & orthogonality
26.11.2014	18	Maneeta Singh	II	Matter of radiation	Davison - germer experiment
27.11.2014	17	Amit Mishra	IV	Atomic model	Electronic configuration of atom
28.11.2014	18	Amit Mishra	IV	M.S. of diatomic molecules	Near & far infrared spectra
28.11.2014	29	Maneeta Singh	III	Laser & master	Elementary ideas of Maser
29.11.2014	19	Amit Mishra	IV	Molecular spectra of diatomic molecule	Rotation, vibration spectra
29.11.2014	30	Maneeta Singh	III	Nuclearenstnuments	Cyclotraon
01.12.2014				Class Teaching	
02.12.2014	30	Amit Mishra	I	Special functions	Associated legendre polynomial
03.12.2014	31	Amit Mishra	I	Special functions	Generating function of laguerre
06.12.2014	19	Maneeta Singh	II	Matter & radiation	Uncertainty principle & complementary particle
06.12.2014	31	Maneeta Singh	III	Nuclear enst ruments	Synchrotron
08.12.2014	20	Amit Mishra	IV	M.S. of diatemic molecules	Rotation - vibration spectra
09.12.2014	21	Amit Mishra	IV	M.S. of diatemic molecules	Electronic spectra
11.12.2014		Maneeta Singh		Class Teaching	
12.12.2014	32	Amit Mishra	I	Spcial function	Recurrence relation for laguerre
12.12.2014	32	Maneeta Singh	III	Nuclear instrument	Betatron
15.12.2014	33	Amit Mishra	I	Special function	Orthogonality of laguerre
16.12.2014	20	Maneeta Singh	II	Matter & radiation	Stern-Gerlach experiment

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17.12.2014	22	Amit Mishra	IV	M.S. of diatomic molecules	P, Q, & R - branches
18.12.2014	23	Amit Mishra	IV	M.S. of diatomic molecules	Coupling of rotation
19.12.2014		Maneeta Singh		Class Teaching	
19.12.2014	33	Maneeta Singh	III	Nuclear instrument	G.M. counter
20.12.2014	34	Amit Mishra	I	Special functions	Rodrigues formula for laguerre
20.12.2014	34	Maneeta Singh	III	Elementary particle	Classification
22.12.2014	35	Amit Mishra	I	Special function	Laguerre's associated polynomial
23.12.2014	21	Maneeta Singh	II	Matter and radiation	Wave packet & bohr magneton
24.12.2014	24	Amit Mishra	IV	M.S. of diatomic molecule	Electronic band system
26.12.2014	25	Amit Mishra	IV	M.S. of diatomic molecule	Symmetric properties of electronic eigen function
26.12.2014	35	Maneeta Singh	III	Elementary particle	Elementary ideas of strong electromagnetic
27.12.2014		Maneeta/Amit		Class Teaching/Test	
27.12.2014	36	Amit Mishra	I	Special functions	Hermite differential equation $H_n(x)$
29.12.2014	37	Amit Mishra	I	Special functions	Generating function for $H_n(x)$
30.12.2014	22	Maneeta Singh	II	Matter and radiation	Electron spin, angular moment
31.12.2014	23	Maneeta Singh	II	Matter and radiation	Magnetic momentum
01.12.2014	26	Amit Mishra	IV	M.S. of diatomic molecules	Sequences
02.01.2014	27	Amit Mishra	IV	M.S. of diatomic molecules	Progression
02.01.2014	36	Amit Mishra	III	Elementary particles	Weak & gravitational interaction
03.01.2014		Maneeta Singh		Class Teaching	
03.01.2014	38	Amit Mishra	I	Special function	Rearrence relation for $H_n(x)$
06.01.2014	39	Amit Mishra	I	Special function	Orthogonality for $H_n(x)$
07.01.2014	24	Maneeta Singh	II	H-atom	Rigid Rotator
08.01.2015	25	Maneeta Singh	II	H-atom	Eigen value of rigid rotator
09.01.2015	28	Amit Mishra	IV	M.S. of diatomic molecules	Franck-condon principle
09.01.2015	37	Maneeta Singh	III	Elementary particle	Quark model
10.01.2015	29	Amit Mishra	IV	Mol. spectra of diatomic molecules	Remaining portion
10.01.2015	38	Maneeta Singh	III	Nuclear & nuclear model	Rutherford scattering
12.01.2015		Maneeta Singh		Class Teaching	

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13.01.2015	40	Amit Mishra	I	Special functions	Remaining portion of special functions
17.01.2015	41	Amit Mishra	I	Proper & improper rotation	Proper rotation
17.01.2015	39	Maneeta Singh	III	Nucleas & nuclear models	Liquid drop model
19.01.2015	26	Maneeta Singh	II	H-atom	H-atom
20.01.2015	27	Maneeta Singh	II	H-atom	Value of L^2 & L_z
21.01.2015	30	Amit Mishra	IV	Fluorescence & roman spectra	Fluorescence
22.01.2015		Maneeta Singh		Class Teaching	
23.01.2015	42	Amit Mishra	I	Proper & Improper rotation	Improper rotation
23.01.2015	40	Maneeta Singh	III	Nucleus and nuclear model	Static properties of nucleus
24.01.2015	43	Amit Mishra	I	Euler's angle	Euler's angles
24.01.2015	41	Maneeta Singh	III	Nucleus and nuclear model	Semi-empirical mass formula
27.01.2015	28	Maneeta Singh	II	H-atom	Remaining porting
28.01.2015	29	Maneeta Singh	II	H-atom	Revision
29.01.2015	31	Amit Mishra	IV	Fluorescence & roman spectra	Raman spectra
30.01.2015		Amit Mishra	IV	Fluorescence & roman spectra	Kinds of raman spectra
30.01.2015	42	Maneeta Singh	III	Nucleus & nuclear model	Bohr-wheeler theory
31.01.2015		Maneeta Singh		Class Teaching	
31.01.2015	44	Amit Mishra	I	Euler's angles	Notation of goldstein
02.02.2015	45	Amit Mishra	I	Orthogonal transformation	Transformation of matrix
03.02.2015	30	Maneeta Singh	II	Revision	Revision
04.02.2015	31	Maneeta Singh	II	Revision	Revision
05.02.2015	32	Amit Mishra	IV	Revision	Revision
06.02.2015	43	Maneeta Singh	III	Nucleus and nuclear model	Beethe's theory and nuclear fusion
06.02.2015	44	Maneeta Singh	III	Nucleus and nuclear model	Shell model and magic number
07.02.2015		Maneeta Singh		Class Teaching	
07.02.2015	46	Amit Mishra	I	Orthogonal transformation	Numerical & questions
09.02.2015	45	Maneeta Singh	III	Magnetism	Diamagnetic, paramagnetic
10.02.2015	47	Amit Mishra	I	Revision	
11.02.2015	48	Amit Mishra	I	Revision	
12.02.2015	49	Amit Mishra	I	Revision	

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13.02.2015	46	Maneeta Singh	III	Magnetism	Curie's law
13.02.2015	47	Maneeta Singh	III	Magnetism	Ferro magnetism, domain, hysteresis loop
14.02.2015		Maneeta Singh		<i>Class Teaching</i>	
14.02.2015	48	Maneeta Singh	III	Magnetism	Remaining portion