

महाराणा प्रताप स्नातकोत्तर महाविद्यालय जंगल धूसड़ गोरखपुर

बी.एस-सी. भाग- तीन		पाठ्यक्रम योजना : सत्र -2016-17			विषय : भौतिकी
Date	Lecture No	Teachers Name	Paper	Chapter	Topic
16/07/2016	1	Dr S.K.Thakur	I	Introduction	List of books
18/07/2016	1	Dr S.K.Thakur	II	Introduction	List of books
19/07/2016	1	Dr S.K.Thakur	IV	Introduction	List of books
20/07/2016		Dr S.K.Thakur		CLASS TEACHING	
21/07/2016	2	Dr S.K.Thakur	I	Classical mechanics	Conservation theorem
22/07/2016	3	Dr S.K.Thakur	I	System of particle	Constraints and generalized coordinates
22/07/2016	1	Maneeta Singh	III	Statistical basis of Thermodynamics	Phase space J M-space, r-space
23/07/2016	2	Dr S.K.Thakur	II	Schrodinger equation	Time-dependent equation
23/07/2016	2	Maneeta Singh	III	Statistical basis of Thermodynamics	Ensemble, Ergodic Surface
25/07/2016	3	Dr S.K.Thakur	II	Schrodinger equation	Time-depedent equation
26/07/2016	2	Dr S.K.Thakur	IV	Atomic spectra of two systems	Coupling scheme
27/07/2016		Dr S.K.Thakur		CLASS TEACHING	
28/07/2016	4	Dr S.K.Thakur	I	System of particle	D-alembert principle
29/07/2016	5	Dr S.K.Thakur	I	System of particle	Langrange's equation
29/07/2016	1	A.V	III	Statistical basis of Thermodynamics	Ensemble Average, Density of states
30/07/2016	4	Dr S.K.Thakur	II	Schrodinger equation	Postulate of Q.M. superposition principle
30/07/2016	2	A.V	III	Statistical basis of Thermodynamics	Liouville's theorem
01/08/2016	5	Dr S.K.Thakur	II	Schrodinger equation	Physical Interpretation of wave function
02/08/2016	3	Dr S.K.Thakur	IV	Atomic spectra of two systems	Spin orbit Interaction Energy
03/08/2016		Dr S.K.Thakur		CLASS TEACHING	
04/08/2016	6	Dr S.K.Thakur	I	System of particle	Generalised Momenta
05/08/2016	7	Dr S.K.Thakur	I	System of particle	Principle of least action
05/08/2016	3	A.V	III	Statistical basis of Thermodynamics	Liouville's theorem : 2 nd part
08/08/2016	6	Dr S.K.Thakur	II	Schrodinger equation	Schrodinger equation
09/08/2016	7	Dr S.K.Thakur	II	Schrodinger equation	Expectation Value
10/08/2016	4	Dr S.K.Thakur	IV	Atomic spectra of two systems	Zeeman effect
11/08/2016		Dr S.K.Thakur		CLASS TEACHING	
12/08/2016	8	Dr S.K.Thakur	I	System of particle	Langrangian for a free particle
12/08/2016	3	Maneeta Singh	III	Thermodynamic equilibrium	Statistical equilibrium, Probability & entropy
13/08/2016	9	Dr S.K.Thakur	I	System of particle	Remaining portion & discussion
13/08/2016	4	A.V	III	Thermodynamic equilibrium	Boltzman Entropy Relation
16/08/2016	8	Dr S.K.Thakur	II	Schrodinger equation	Ehrenfest's theorem
17/08/2016	9	Dr S.K.Thakur	II	Schrodinger equation	Ehrenfest's theorem
19/08/2016	5	Dr S.K.Thakur	IV	Two valance system	Paschen back effect
19/08/2016	4	Maneeta Singh	III	Thermodynamic equilibrium	2nd Law of thermodynamics

20/08/2016		Dr S.K.Thakur		CLASS TEACHING	
20/08/2016	5	Maneeta Singh	III	Thermodynamic equilibrium	M.B. distribution
22/08/2016	10	Dr S.K.Thakur	I	Two body problem	Reduction to one body problem
23/08/2016	11	Dr S.K.Thakur	I	Two body problem	Centre of Mass, kepler's Law
24/08/2016	10	Dr S.K.Thakur	II	Schrodinger equation	Degeneracy & parity
26/08/2016	11	Dr S.K.Thakur	II	Operator	Linear operator, production of two operator
26/08/2016		A.V	III	Thermodynamic equilibrium	M.B. distribution of speed in an ideal gas
27/08/2016	6	Dr S.K.Thakur	IV	Two valance system	Atomic spectra of alkali metals
27/08/2016		A.V	III	Quantum statistics	M. B. distribution
29/08/2016		Dr S.K.Thakur		MONTHLY EVALUATION	
30/08/2016	12	Dr S.K.Thakur	I	Two body problem	Kepler's problem
01/09/2016	13	Dr S.K.Thakur	I	Canonical formulation	Hamilton's equation
02/09/2016	12	Dr S.K.Thakur	II	Operator	Simultaneous eign function
02/09/2016		A.V	III	Quantum statistics	B.E. distribution
03/09/2016	13	Dr S.K.Thakur	II	Operator	Simultaneous egin function
03/09/2016		A.V	III	Quantum statistics	Planck's Law
05/09/2016	7	Dr S.K.Thakur	IV	Atomic spectra of one Valence system	Atomic spectra of alkali metals
06/09/2016		Dr S.K.Thakur		CLASS TEACHING	
07/09/2016	14	Dr S.K.Thakur	I	Canonical formulation	Hamilton's equation
08/09/2016	15	Dr S.K.Thakur	I	Canonical formulation	Canonical transformation
09/09/2016	14	Dr S.K.Thakur	II	Operator	Angular momentum operator
09/09/2016		A.V	III	Quantum statistics	Planck's Law
10/09/2016	15	Dr S.K.Thakur	II	Simple one-D problem	Particle in a box
10/09/2016		A.V	III	Laser & Maser	Eienstein coefficient,
14/09/2016	8	Dr S.K.Thakur	IV	Atomic spectra of one Valence system	Zeeman effect
15/09/2016				CLASS TEACHING	
16/09/2016	16	Dr S.K.Thakur	I		
16/09/2016	6	Maneeta Singh	III	Laser & Maser	Eienstein coefficient Population inversion
20/09/2016		Dr S.K.Thakur	I	Canonical formulation	Poisson's bracket , angular momentum
21/09/2016	16	Dr S.K.Thakur	II	Simple one-D problem	Step potential
22/09/2016	17	Dr S.K.Thakur	II	Simple one-D problem	Rectangular barrier
23/09/2016	9	Dr S.K.Thakur	IV	Atomic spectra of one Valence system	Paschen Back effect
23/09/2016	7	Maneeta Singh	III	Quantum statistics	R-D equation
24/09/2016				EVALUATION	
24/09/2016	8	Maneeta Singh	III	Laser & Maser	Three level laser, Ruby Laser
26/09/2016	17	Dr S.K.Thakur	I	Canonical formulation	Harmonic oscillator problem
27/09/2016	18	Dr S.K.Thakur	I	Canonical formulation	Harmonic oscillator problem
28/09/2016	18	Dr S.K.Thakur	II	Simple one-D problem	Rectangular barrier
29/09/2016	19	Dr S.K.Thakur	II	Simple one-D problem	Finite Potential well
03/10/2016	10	Dr S.K.Thakur	IV	Atomic spectra of one Valence system	Paschen Back effect
04/10/2016		Dr S.K.Thakur		CLASS TEACHING	

05/10/2016	19	Dr S.K.Thakur	I	Motion of rigid bodies	Angular momentum
06/10/2016	20	Dr S.K.Thakur	I	Motion of rigid bodies	Torque free motion of a rigid body
07/10/2016	20	Dr S.K.Thakur	II	One D-Harmonic Oscillator	Linear Harmonic Oscillator
07/10/2016		A.V	III	Laser & Maser	Ruby Laser
08/10/2016	21	Dr S.K.Thakur	II	One D-Harmonic Oscillator	Linear Harmonic Oscillator
08/10/2016			III	Laser & Maser	He-Ne Laser, Maser
14/10/2016	11	Dr S.K.Thakur	IV	Atomic spectra of one Valence system	Spin orbital Interaction
14/10/2016	9	Maneeta Singh	III	Laser & Maser	He-Ne Laser, Maser
15/10/2016				CLASS TEACHING	
15/10/2016	10	Maneeta Singh	III	Nuclear instruments	Cyclotron
17/10/2016	21	Dr S.K.Thakur	I	Motion of rigid bodies	Symmetrical top precession
18/10/2016	22	Dr S.K.Thakur	I	Curvi linear coordinates	Tangent basis vectors, scale factor
19/10/2016	22	Dr S.K.Thakur	II	One D-Harmonic Oscillator	Ground & excited states, zero point energy
20/10/2016	23	Dr S.K.Thakur	II	Matter and radiation	Photoelectric effect
21/10/2016	12	Dr S.K.Thakur	IV	Atomic spectra of one Valence system	Stark's effect
21/10/2016	11	Maneeta Singh	III	Nuclear instruments	Synchrotron
22/10/2016		Dr S.K.Thakur		EVALUATION	
22/10/2016	12	Maneeta Singh	III	Nuclear instruments	Betatron
24/10/2016	23	Dr S.K.Thakur	I	Curvilinear coordinates	Spherical coordinate system
25/10/2016	24	Dr S.K.Thakur	I	Curvilinear coordinates	Polar & Cylindrical Coordinate System
26/10/2016	24	Dr S.K.Thakur	II	Matter and radiation	Photoelectric effect
02/11/2016	25	Dr S.K.Thakur	II	Matter and radiation	Compton Effect
03/11/2016	13	Dr S.K.Thakur	IV	Atomic spectra of one Valence system	Electron Spin & fine structure
04/11/2016				CLASS TEACHING	
04/11/2016	13	Maneeta Singh	III	Nuclear instruments	G.. M. Counter
05/11/2016	25	Dr S.K.Thakur	I	Curvilinear coordinates	Gradient of Scale, Curl divergent
05/11/2016		A.V	III	Nuclear instruments	G.. M. Counter
08/11/2016	26	Dr S.K.Thakur	I	Curvilinear coordinate	Laplace equation in spherical polar & cylindrical
09/11/2016	26	Dr S.K.Thakur	II	Matter and radiation	De- Broglie's Hypothesis
10/11/2016	27	Dr S.K.Thakur	II	Matter and radiation	Davison-germer Experiment
11/11/2016	14	Dr S.K.Thakur	IV	Atomic Model	Sommer fields Model
11/11/2016	14	Maneeta Singh	III	Elementary Particle	Classification
12/11/2016				CLASS TEACHING	
12/11/2016	15	Maneeta Singh	III	Elementary Particle	Elementry ideas of Electro magnate
15/11/2016	27	Dr S.K.Thakur	I	Special functions	Legendra generationy Function
17/11/2016	28	Dr S.K.Thakur	I	Special functions	Legendra differential equation
18/11/2016	28	Dr S.K.Thakur	II	Matter & Radiation	Uncertainty & Complementary Principle
18/11/2016		A.V	III	Elementary Particle	Quark Model
19/11/2016	29	Dr S.K.Thakur	II	Matter & Radiation	Bohr Magnetron, Angular Momentum
19/11/2016		A.V	III	Elementary Particle	Quark Model

21/11/2016	15	Dr S.K.Thakur	IV	Atomic Model	Vector Atom Model
22/11/2016		Dr S.K.Thakur		CLASS TEACHING	
23/11/2016	29	Dr S.K.Thakur	I	Special functions	Recurrence relations
25/11/2016	30	Dr S.K.Thakur	I	Special functions	Rodrigue's formula & orthogonality
25/11/2016		A.V	III	Nuclear and nuclear Model	Rutherford Scattering
26/11/2016	30	Dr S.K.Thakur	II	H-atom	Rigid Rotator, H-atom
26/11/2016		A.V	III	Nuclear and nuclear Model	Liquid drop Model
28/11/2016	31	Dr S.K.Thakur	II	H-atom	H-atom, Value of L_2 & L_2
29/11/2016	16	Dr S.K.Thakur	IV	Atomic Model	Pauli's Exclusion Principle
30/11/2016				EVALUATION	
01/12/2016	31	Dr S.K.Thakur	I	Special functions	Legendre Polynomial & Generating function of Laguerre
02/12/2016	32	Dr S.K.Thakur	I	Special functions	Recurrence relation for Laguerre
02/12/2016		A.V	III	Nuclear and nuclear Model	Static Properties of Nucleas
03/12/2016	32	Dr S.K.Thakur	II	H-atom	Remaining portion
03/12/2016		A.V	III	Nuclear and nuclear Model	Semi-empirical Mass formula
06/12/2016	33	Dr S.K.Thakur	II	QUESTION ANSWER	
07/12/2016	17	Dr S.K.Thakur	IV	Atomic Model	Fine Structure of He Line
08/12/2016		Dr S.K.Thakur		CLASS TEACHING	
09/12/2016		Dr S.K.Thakur	I	Special functions	orthogonality of laguerre
09/12/2016	16	Maneeta Singh	III	Nuclear and nuclear Model	Bohr- Wheeler Theory
12/12/2016	33	Dr S.K.Thakur	I	Special functions	Rodrigues formula for laguerre
14/12/2016	34	Dr S.K.Thakur	II	QUESTION ANSWER	
15/12/2016	35	Dr S.K.Thakur	II	QUESTION ANSWER	
16/12/2016	18	Dr S.K.Thakur	IV	Atomic Model	Electronic Configuration of Atom
16/12/2016	17	Maneeta Singh	III	Nuclear and nuclear Model	Beethe's Theory and Nuclear Fusion
17/12/2016				CLASS TEACHING	
17/12/2016	18	Maneeta Singh	III	Nuclear and nuclear Model	Shell Model and Magic Number
19/12/2016	34	Dr S.K.Thakur	I	Special functions	Laguerre's Associated Polynomial
20/12/2016	35	Dr S.K.Thakur	I	Special functions	Hermite differential equation $H_n(x)$
21/12/2016	19	Dr S.K.Thakur	IV	M.S. of diatomic molecules	Near & Far Infrared Spectra
22/12/2016	20	Dr S.K.Thakur	IV	M.S. of diatomic molecules	Rotation-Vibration Spectra Electronic Spectra
24/12/2016	21	Dr S.K.Thakur	IV	M.S. of diatomic molecules	P, Q, R- branches
24/12/2016	19	Maneeta Singh	III	Magnetism	Diamagnetism, Para magnetism
26/12/2016		Dr S.K.Thakur		EVALUATION	
27/12/2016	36	Dr S.K.Thakur	I	Special functions	Rearrence relation for $H_n(x)$ Orthogonality for $H_n(x)$
28/12/2016	37	Dr S.K.Thakur	I	Special functions	Remaining Portion of Special function
29/12/2016	22	Dr S.K.Thakur	IV	M.S. of diatomic molecules	Coupling of rotation

30/12/2016	23	Dr S.K.Thakur	IV	M.S. of diatomic molecules	Electronic band system
30/12/2016	20	Maneeta Singh	III	Magnetism	Curie's Law
31/12/2016	24	Dr S.K.Thakur	IV	M.S. of diatomic molecules	Symmetric properties of electronic eigen function
31/12/2016	21	Maneeta Singh	III	Magnetism	Curie's Law
02/01/2017				CLASS TEACHING	
03/01/2017	38	Dr S.K.Thakur	I	Proper & improper rotation	Proper & improper rotation
04/01/2017	39	Dr S.K.Thakur	I	Euler's angle	Euler's angles, Notation of goldstein
06/01/2017	25	Dr S.K.Thakur	IV	M.S. of diatomic molecules	Franck-condon principle
06/01/2017		A.V	III	Magnetism	Curie's Law
07/01/2017	26	Dr S.K.Thakur	IV	M.S. of diatomic molecules	Sequences & Progression
07/01/2017	27	Dr S.K.Thakur	IV	M.S. of diatomic molecules	Remaining portion
09/01/2017	28	Dr S.K.Thakur	IV	Fluresence & raman spectra	Fluorescence
10/01/2017				CLASS TEACHING	
11/01/2017	40	Dr S.K.Thakur	I	Orthogonal Transformation	Transformation of Matrix
12/01/2017	41	Dr S.K.Thakur	I	Orthogonal Transformation	Numerical & Questions
13/01/2017	29	Dr S.K.Thakur	IV	Fluresence & raman spectra	Raman Spectra
13/01/2017	22	Maneeta Singh	III	Magnetism	FerroMagnetism, domain
16/01/2017	30	Dr S.K.Thakur	IV	Fluresence & raman spectra	Kinds of Raman spectra
17/01/2017	31	Dr S.K.Thakur	IV	Fluresence & raman spectra	Kinds of Raman spectra
18/01/2017		Dr S.K.Thakur		CLASS TEACHING	
19/01/2017	32	Dr S.K.Thakur	IV	Fluresence & raman spectra	Kinds of Raman spectra
20/01/2017	33	Dr S.K.Thakur	IV	Fluresence & raman spectra	Kinds of Raman spectra
20/01/2017	23	Maneeta Singh	III	Magnetism	Hysterisis Loop
21/01/2017	42	Dr S.K.Thakur	I	Orthogonal Transformation	Numerical & Questions
21/01/2017	24	Maneeta Singh	III	Magnetism	Remaining porting
23/01/2017	43	Dr S.K.Thakur	I	Orthogonal Transformation	Numerical & Questions
24/01/2017	44	Dr S.K.Thakur	I	Orthogonal Transformation	Numerical & Questions
25/01/2017		Dr S.K.Thakur		EVALUATION	
27/01/2017	36	Dr S.K.Thakur	II	REVISION	REVISION
27/01/2017	24	Maneeta Singh	III	REVISION	REVISION
28/01/2017	37	Dr S.K.Thakur	II	REVISION	REVISION
28/01/2017		A.V	III	REVISION	REVISION
30/01/2017	34	Dr S.K.Thakur	IV	REVISION	REVISION
31/01/2017	35	Dr S.K.Thakur	IV	REVISION	REVISION