

C.R. KISAN COLLEGE, JIND

(Lesson Plan)

Name of the Assistant Professor: SONIA

Class and Section: B.Sc. IIND SEMESTER

Lesson Plan of the Subject: PHYSICS

Nomenclature of the Paper: PROPERTIES OF MATTER AND KINETIC THEORY OF GASES

Weeks	Days	Dates	Chapters	Topics
1st	1 st	01.01.2018		INTRODUCTION OF SYLLABUS
	2 nd	02.01.2018		RIGID BODY & ROTATION OF RIGID BODY
	3 rd	03.01.2018		TORQUE, ANGULAR MOMENTUM, K.E.
	4 th	04.01.2018		CONTINUED
	5 th	05.01.2018		INTRODUCTION OF MOMENT OF INERTIA
	6 th	06.01.2018		THEOREM RELATED TO MOMENT OF INERTIA
		7 th	07.01.2018	
2nd	1 st	08.01.2018		CALCULATION OF MOMENT OF INERTIA
	2 nd	09.01.2018		CONTINUED
	3 rd	10.01.2018		CONTINUED
	4 th	11.01.2018		MOMENT OF INERTIA OF IRREGULAR BODY
	5 th	12.01.2018		ACCELERATION OF A BODY ROLLING ON
	6 th	13.01.2018		INCLINED PLANE
		7 th	14.01.2018	
3rd	1 st	15.01.2018		REVISION
	2 nd	16.01.2018		PROBLEMS BASED ON MOMENT OF INERTIA
	3 rd	17.01.2018		INTRODUCTION OF ELASTICITY
	4 th	18.01.2018		ELASTICITY, STRESS, STRAIN
	5 th	19.01.2018		HOOKE'S LAW
	6 th	20.01.2018		ELASTIC CONSTANT & THEIR RELATIONS
		7 th	21.01.2018	
4th	1 st	22.01.2018		Holiday
	2 nd	23.01.2018		CONTINUE
	3 rd	24.01.2018		POISSON'S RATIO
	4 th	25.01.2018		DETERMINATION OF COEFF OF MODULUS OF RIGIDITY
	5 th	26.01.2018		Holiday
	6 th	27.01.2018		BENDING OF BEAM
		7 th	28.01.2018	
5th	1 st	29.01.2018		CANTILEVER AND CENTRAL LOADED BEAM
	2 nd	30.01.2018		CONTINUE
	3 rd	31.01.2018		Holiday
	4 th	01.02.2018		DETERMINATION OF YOUNG'S MODULUS
	5 th	02.02.2018		ELASTIC CONSTANT BY SEARLE'S METHOD
	6 th	03.02.2018		CONTINUE
		7 th	04.02.2018	
6th	1 st	05.02.2018		REVISION
	2 nd	06.02.2018		TEST OF ELASTICITY
	3 rd	07.02.2018		INTRODUCTION OF KINETIC THEORY OF GASES

	4 th	08.02.2018		ASSUMPTIONS OF KINETIC THEORY OF GAS
	5 th	09.02.2018		PRESSURE OF AN IDEAL GAS
	6 th	10.02.2018		Holiday
	7 th	11.02.2018		Sunday
7th	1 st	12.02.2018		CONTINUE
	2 nd	13.02.2018		Holiday
	3 rd	14.02.2018		KINETIC INTERPRETATION OF TEMPERATURE
	4 th	15.02.2018		IDEAL GAS EQUATION
	5 th	16.02.2018		DEGREE OF FREEDOM
	6 th	17.02.2018		CALCULATION OF D.O.F.
	7 th	18.02.2018		Sunday
8th	1 st	19.02.2018		LAW OF EQUIPARTITION OF ENERGY
	2 nd	20.02.2018		APPLICATION OF EQUIPARTITION OF ENERGY
	3 rd	21.02.2018		REAL GASES
	4 th	22.02.2018		VAN DER WAALS EQUATION
	5 th	23.02.2018		BROWNIAN MOTION
	6 th	24.02.2018		REVISION
	7 th	25.02.2018		Sunday
9th	1 st	26.02.2018		ASSIGNMENT OF KINETIC THEORY
	2 nd	27.02.2018		REVISION
	3 rd	28.02.2018		Vacation
	4 th	01.03.2018		Vacation
	5 th	02.03.2018		Vacation
	6 th	03.03.2018		Vacation
	7 th	04.03.2018		Sunday, Vacation
10th	1 st	05.03.2018		TEST OF ELASTICITY & KINETIC THEORY
	2 nd	06.03.2018		INTRODUCTION OF KINETIC THEORY - II
	3 rd	07.03.2018		STATISTICAL MECHANICS & DIFFERENCE
	4 th	08.03.2018		CONTINUE
	5 th	09.03.2018		DETAIL MAXWELL-BOLTZMANN STATISTICS
	6 th	10.03.2018		MAXWELL-BOLTZMANN DISTRIBUTION LAW
	7 th	11.03.2018		Sunday
11th	1 st	12.03.2018		GRAPHICAL REPRESENTATION OF
	2 nd	13.03.2018		MAXWELL-DISTRIBUTION OF SPEEDS
	3 rd	14.03.2018		REVISION
	4 th	15.03.2018		MOST PROBABLE SPEED
	5 th	16.03.2018		AVERAGE SPEED
	6 th	17.03.2018		ROOT MEAN SQUARE SPEED
	7 th	18.03.2018		Sunday
12th	1 st	19.03.2018		CONTINUE
	2 nd	20.03.2018		REVISION
	3 rd	21.03.2018		TEST OF MAXWELL-BOLTZMANN STATISTICS
	4 th	22.03.2018		EXPERIMENTAL VERIFICATION
	5 th	23.03.2018		Holiday
	6 th	24.03.2018		MEAN FREE PATH
	7 th	25.03.2018		Sunday
13th	1 st	26.03.2018		DIFFUSION OF GASES
	2 nd	27.03.2018		COEFFICIENT OF DIFFUSION

	3 rd	28.03.2018		TRANSPORT OF ENERGY
	4 th	29.03.2018		Holiday
	5 th	30.03.2018		COEFFICIENT OF THERMAL CONDUCTIVITY
	6 th	31.03.2018		REVISION
	7 th	01.04.2018		Sunday
4th	1 st	02.04.2018		TRANSPORT OF MOMENTUM
	2 nd	03.04.2018		VISCOSITY OF GASES
	3 rd	04.04.2018		REVISION
	4 th	05.04.2018		ASSIGNMENT OF KINETIC THEORY
	5 th	06.04.2018		PROBLEMS RELATED TO KINETIC THEORY
	6 th	07.04.2018		TEST OF KINETIC THEORY
	7 th	08.04.2018		Sunday
5th	1 st	09.04.2018		LAWS OF KINETIC THEORY
	2 nd	10.04.2018		CONTINUE
	3 rd	11.04.2018		CONTINUE
	4 th	12.04.2018		CONTINUE
	5 th	13.04.2018		REVISION OF UNIT
	6 th	14.04.2018		Holiday
	7 th	15.04.2018		Sunday
6th	1 st	16.04.2018		TEST OF WHOLE KINETIC THEORY
	2 nd	17.04.2018		DISCUSSION OF TEST
	3 rd	18.04.2018		Holiday
	4 th	19.04.2018		PROBLEMS RELATED TO MOMENTUM OF INERTIA AND ELASTICITY
	5 th	20.04.2018		CONTINUE
	6 th	21.04.2018		CONTINUE
	7 th	22.04.2018		Sunday
7th	1 st	23.04.2018		REVISION
	2 nd	24.04.2018		REVISION
	3 rd	25.04.2018		REVISION
	4 th	26.04.2018		TEST
	5 th	27.04.2018		PROBLEM DISCUSSION
	6 th	28.04.2018		TEST
	7 th	29.04.2018		Sunday

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Signature of the Teacher

C.R. KISAN COLLEGE, JIND

(Lesson Plan)

Name of the Assistant Professor: SONIA

Class and Section: B.Sc. IV SEMESTER

Lesson Plan of the Subject: PHYSICS

Nomenclature of the Paper: WAVE AND OPTICS

Weeks	Days	Dates	Chapters	Topics	
1 st	1 st	01.01.2018		INTRODUCTION OF SYLLABUS	
	2 nd	02.01.2018		INTRODUCTION OF POLARISATION	
	3 rd	03.01.2018		DIFFERENT TYPES OF POLARISATION	
	4 th	04.01.2018		POLARISATION BY REFLECTION	
	5 th	05.01.2018		POLARISATION BY REFRACTION & SCATTERING	
	6 th	06.01.2018		MALUS LAW	
		7 th	07.01.2018		Sunday
2 nd	1 st	08.01.2018		PHENOMENON OF DOUBLE REFRACTION	
	2 nd	09.01.2018		HUYGEN'S WAVE THEORY	
	3 rd	10.01.2018		CONTINUE	
	4 th	11.01.2018		CONTINUE	
	5 th	12.01.2018		ANALYSIS OF POLARISED LIGHT	
	6 th	13.01.2018		NICOL PRISM	
		7 th	14.01.2018		Sunday
3 rd	1 st	15.01.2018		QUARTER WAVE PLATE	
	2 nd	16.01.2018		HALF WAVE PLATE	
	3 rd	17.01.2018		PRODUCTION AND DETECTION OF POLARISED	
	4 th	18.01.2018		PLANE POLARISED LIGHT	
	5 th	19.01.2018		CIRCULARLY POLARISED LIGHT	
	6 th	20.01.2018		ELLIPTICALLY POLARISED LIGHT	
		7 th	21.01.2018		Sunday
4 th		22.01.2018		Holiday	
	2 nd	23.01.2018		PROPERTIES OF DIFF. POLARISED LIGHT	
	3 rd	24.01.2018		OPTICAL ACTIVITY	
	4 th	25.01.2018		FRESNEL'S THEORY	
		5 th	26.01.2018		Holiday
	6 th	27.01.2018		CONTINUE	
		7 th	28.01.2018		Sunday
5 th	1 st	29.01.2018		CONTINUE	
	2 nd	30.01.2018		POLARIMETERS	
		31.01.2018		Holiday	
	4 th	01.02.2018		REVISION	
	5 th	02.02.2018		ASSIGNMENT OF POLARISATION	
	6 th	03.02.2018		INTRODUCTION OF FOURIER ANALYSIS	
		7 th	04.02.2018		Holiday
6 th	1 st	05.02.2018		FOURIER THEOREM	
	2 nd	06.02.2018		FOURIER SERIES EXPANSION	
	3 rd	07.02.2018		CONTINUE	

	4 th	08.02.2018	EVALUATION OF FOURIER COEFFICIENT
	5 th	09.02.2018	CONTINUE
	6 th	10.02.2018	Holiday
	7 th	11.02.2018	Holiday
2 th	1 st	12.02.2018	IMPORTANCE AND LIMITATIONS OF FOURIER THEOREM
	2 nd	13.02.2018	Holiday
	3 rd	14.02.2018	EVEN AND ODD FUNCTION
	4 th	15.02.2018	FOURIER SERIES OF $f(x)$ B/W DIFF. LIMITS
	5 th	16.02.2018	CONTINUE
	6 th	17.02.2018	CONTINUE
	7 th	18.02.2018	Sunday
3 rd	1 st	19.02.2018	DIRICHLET'S CONDITIONS
	2 nd	20.02.2018	HALF RANGE FOURIER EXPANSION
	3 rd	21.02.2018	COMPLEX FORM OF FOURIER SERIES
	4 th	22.02.2018	CONTINUE
	5 th	23.02.2018	APPLICATION OF FOURIER THEOREM
	6 th	24.02.2018	CONTINUE
	7 th	25.02.2018	Sunday
4 th	1 st	26.02.2018	CONTINUE
	2 nd	27.02.2018	CONTINUE
	3 rd	28.02.2018	Vacation
	4 th	01.03.2018	Vacation
	5 th	02.03.2018	Vacation
	6 th	03.03.2018	Vacation
	7 th	04.03.2018	Sunday, Vacation
5 th	1 st	05.03.2018	FOURIER INTEGRALS
	2 nd	06.03.2018	CONTINUE
	3 rd	07.03.2018	REVISION
	4 th	08.03.2018	TEST OF FOURIER ANALYSIS
	5 th	09.03.2018	INTRODUCTION OF FOURIER TRANSFORMS
	6 th	10.03.2018	PROPERTIES OF FOURIER TRANSFORMS
	7 th	11.03.2018	Sunday
6 th	1 st	12.03.2018	APPLICATION OF FOURIER TRANSFORMS
	2 nd	13.03.2018	CONTINUE
	3 rd	14.03.2018	CONTINUE
	4 th	15.03.2018	CONTINUE
	5 th	16.03.2018	CONTINUE
	6 th	17.03.2018	REVISION
	7 th	18.03.2018	Sunday
7 th	1 st	19.03.2018	INTRODUCTION OF GEOMETRIC OPTICS
	2 nd	20.03.2018	DERIVATION OF THIN AND THICK LENS FORMULA
	3 rd	21.03.2018	CONTINUE
	4 th	22.03.2018	CONTINUE
	5 th	23.03.2018	Holiday
	6 th	24.03.2018	UNIT PLANE, NODAL PLANES
	7 th	25.03.2018	Sunday
8 th	1 st	26.03.2018	CONTINUE
	2 nd	27.03.2018	REVISION & TEST

3 rd	28.03.2018		DIFFERENT TYPES OF ABERRATIONS
4 th	29.03.2018		Holiday
5 th	30.03.2018		CONTINUE
6 th	31.03.2018		CONTINUE
7 th	01.04.2018		Sunday
1 st	02.04.2018		REMEDIES OF ABERATIONS
2 nd	03.04.2018		CONTINUE
3 rd	04.04.2018		REVISION
4 th	05.04.2018		INTRODUCTION OF FIBER OPTICS
5 th	06.04.2018		CRITICAL ANGLE, MODE OF PROPAGATION
6 th	07.04.2018		ACCEPTANCE ANGLE FRACTIONAL REFRACTIVE INDEX
7 th	08.04.2018		Sunday
1 st	09.04.2018		NUMERICAL APERTURE
2 nd	10.04.2018		TYPES OF OPTICAL FIBRE
3 rd	11.04.2018		NORMALISED FREQUENCY
4 th	12.04.2018		PULSE DISPERSION, ATTENUATION
5 th	13.04.2018		APPLICATIONS
6 th	14.04.2018		Holiday
7 th	15.04.2018		Sunday
1 st	16.04.2018		REVISION
2 nd	17.04.2018		FIBRE OPTIC COMMUNICATION
3 rd	18.04.2018		Holiday
4 th	19.04.2018		ADVANTAGES
5 th	20.04.2018		REVISION
6 th	21.04.2018		ASSIGNMENT
7 th	22.04.2018		Sunday
1 st	23.04.2018		REVISION OF FOURIER SERIES
2 nd	24.04.2018		CONTINUE
3 rd	25.04.2018		REVISION OF POLARISATION
4 th	26.04.2018		REVISION
5 th	27.04.2018		TEST
6 th	28.04.2018		REVISION
7 th	29.04.2018		Sunday

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Signature of the Teacher

C.R. KISAN COLLEGE, JIND
(Lesson Plan)

Name of the Assistant Professor: SONIA

Class and Section: B.Sc. VI SEMESTER

Lesson Plan of the Subject: PHYSICS

Nomenclature of the Paper: SOLID STATE AND NANO PHYSICS

Weeks	Days	Dates	Chapters	Topics
1st	1 st	01.01.2018		INTRODUCTION OF SYLLABUS
	2 nd	02.01.2018		INTRODUCTION OF CRYSTAL STRUCTURE
	3 rd	03.01.2018		DIFFERENT FORMS OF CRYSTAL
	4 th	04.01.2018		PERIODICITY AND LATTICE, BASIS
	5 th	05.01.2018		CONTINUE
	6 th	06.01.2018		CRYSTAL TRANSLATION VECTORS
		7 th	07.01.2018	
2nd	1 st	08.01.2018		CONTINUE
	2 nd	09.01.2018		UNIT CELL AND PRIMITIVE CELL
	3 rd	10.01.2018		WELCHER SEITZ CELL
	4 th	11.01.2018		SYMMETRY OPERATIONS FOR 2D.
	5 th	12.01.2018		BRAVAIS LATTICE
	6 th	13.01.2018		CONTINUE
		7 th	14.01.2018	
3rd	1 st	15.01.2018		CONTINUE
	2 nd	16.01.2018		CRYSTAL PLANE AND MILLER INDICES
	3 rd	17.01.2018		CONTINUE
	4 th	18.01.2018		INTERPLANAR SPACING
	5 th	19.01.2018		CONTINUE
	6 th	20.01.2018		CRYSTAL STRUCTURE'S EXAMPLE
		7 th	21.01.2018	
4th	1 st	22.01.2018		Sunday
	2 nd	23.01.2018		CONTINUE
	3 rd	24.01.2018		CONTINUE
	4 th	25.01.2018		REVISION
	5 th	26.01.2018		Holiday
	6 th	27.01.2018		ASSIGNMENT OF CRYSTAL STRUCTURE
		7 th	28.01.2018	
5th	1 st	29.01.2018		INTRODUCTION OF DIFFRACTION
	2 nd	30.01.2018		X-RAY DIFFRACTION
	3 rd	31.01.2018		Holiday
	4 th	01.02.2018		CONTINUE
	5 th	02.02.2018		BRAGG'S LAW
	6 th	03.02.2018		CONTINUE
		7 th	04.02.2018	
6th	1 st	05.02.2018		CONTINUE
	2 nd	06.02.2018		K-SPACE AND RECIPROCAL LATTICE
	3 rd	07.02.2018		PHYSICAL SIGNIFICANCE

4 th	08.02.2018	CONTINUE
5 th	09.02.2018	CONTINUE
6 th	10.02.2018	Holiday
7 th	11.02.2018	Sunday
1 st	12.02.2018	RECIPROCAL LATTICE VECTORS
2 nd	13.02.2018	Holiday
3 rd	14.02.2018	RECIPROCAL LATTICE TO SIMPLE CUBIC
4 th	15.02.2018	RECIPROCAL LATTICE TO F.C.C.
5 th	16.02.2018	RECIPROCAL LATTICE TO B.C.C.
6 th	17.02.2018	CONTINUE
7 th	18.02.2018	Sunday
1 st	19.02.2018	REVISION
2 nd	20.02.2018	TEST OF CRYSTAL STRUCTURE-II
3 rd	21.02.2018	INTRODUCTION OF SUPERCONDUCTIVITY
4 th	22.02.2018	PROPERTIES OF SUPERCONDUCTORS
5 th	23.02.2018	CONTINUE
6 th	24.02.2018	CONTINUE
7 th	25.02.2018	Sunday
1 st	26.02.2018	MEISSNER EFFECT
2 nd	27.02.2018	LONDON THEORY
3 rd	28.02.2018	Vacation
4 th	01.03.2018	Vacation
5 th	02.03.2018	Vacation
6 th	03.03.2018	Vacation
7 th	04.03.2018	Sunday, Vacation
1 st	05.03.2018	PIPPARD'S EQUATION
2 nd	06.03.2018	CLASSIFICATION OF SUPERCONDUCTORS
3 rd	07.03.2018	CONTINUE
4 th	08.03.2018	BCS THEORY
5 th	09.03.2018	CONTINUE
6 th	10.03.2018	CONTINUE
7 th	11.03.2018	Sunday
1 st	12.03.2018	FLUX QUANTIZATION
2 nd	13.03.2018	JOSEPHSON EFFECT (AC and DC)
3 rd	14.03.2018	CONTINUE
4 th	15.03.2018	PRACTICAL APPLICATIONS
5 th	16.03.2018	CONTINUE
6 th	17.03.2018	CONTINUE
7 th	18.03.2018	Sunday
1 st	19.03.2018	REVISION
2 nd	20.03.2018	ASSIGNMENT & TEST OF SUPERCONDUCTOR
3 rd	21.03.2018	INTRODUCTION TO NANO PHYSICS
4 th	22.03.2018	IMPORTANCE OF NANO-SCALE
5 th	23.03.2018	Holiday
6 th	24.03.2018	CONTINUE
7 th	25.03.2018	Sunday
1 st	26.03.2018	MOLECULAR ASSEMBLER CONCEPT
2 nd	27.03.2018	UNDERSTANDING ADVANCED CAPABILITIES

3 rd	28.03.2018		VISION AND OBJECTIVE OF NANO-TECH
4 th	29.03.2018		Holiday
5 th	30.03.2018		CONTINUE
6 th	31.03.2018		CONTINUE
7 th	01.04.2018		Sunday
1 st	02.04.2018		NANO-TECHNOLOGY IN DIFF- FIELDS
2 nd	03.04.2018		CONTINUE
3 rd	04.04.2018		CONTINUE
4 th	05.04.2018		CONTINUE
5 th	06.04.2018		CONTINUE
	07.04.2018		CONTINUE
7 th	08.04.2018		Sunday
1 st	09.04.2018		REVISION OF NANO-PHYSICS
2 nd	10.04.2018		TEST OF NANO-PHYSICS
3 rd	11.04.2018		HISTORY OF NANO-TECHNOLOGY
4 th	12.04.2018		CONTINUE
5 th	13.04.2018		REVISION
6 th	14.04.2018		Holiday
7 th	15.04.2018		Sunday
1 st	16.04.2018		REVISION OF CRYSTAL STRUCTURE
2 nd	17.04.2018		TEST OF CRYSTAL STRUCTURE
3 rd	18.04.2018		Holiday
4 th	19.04.2018		COMPLETE SYLLABUS REVISION
5 th	20.04.2018		TEST
6 th	21.04.2018		TEST DISCUSSION
7 th	22.04.2018		Sunday
1 st	23.04.2018		REVISION OF SUPER CONDUCTIVITY
2 nd	24.04.2018		CONTINUE
3 rd	25.04.2018		CONTINUE
4 th	26.04.2018		TEST
5 th	27.04.2018		REVISION
6 th	28.04.2018		REVISION
7 th	29.04.2018		Sunday

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Signature of the Teacher