LESSON PLAN (November 2020- February 2021)				
PAPER-1				
Name of the Assistant Professor:		**Rahul Singh**		
Class:		**B .Sc. 1st Yr.**		
Subject:		**Physics**		
Period:		**November 20 - March 21**		
NOVEMBER 2020				
WEEK	**DAY**	**DATE**	**DAYS**	**TOPICS**
1st Week	Day 1	02/11/2020	Monday	Mechanics of single particle
	Day 2	03/11/2020	Tuesday	Mechanics of single particle
	Day 3	04/11/2020	Wednesday	Mechanics of system of particles
	Day 4	05/11/2020	Thursday	Conservation of laws of linear momentum
	Day 5	06/11/2020	Friday	Discussion related to above these topics
	Day 6	07/11/2020	Saturday	Activity
		08/11/2020	Sunday	
2nd Week	Day 1	09/11/2020	Monday	Conservation of laws of angular momentum
	Day 2	10/11/2020	Tuesday	Conservation of laws of mechanical energy
	Day 3	11/11/2020	Wednesday	Discussion related to above these topics
	Day 4	12/11/2020	Thursday	Centre of mass
	Day 5	13/11/2020	Friday	**HOLIDAY**
	Day 6	14/11/2020	Saturday	
		15/11/2020	Sunday	
3rd WEEK	Day 1	16/11/2020	Monday	
	Day 2	17/11/2020	Tuesday	What is centre of mass
	Day 3	18/11/2020	Wednesday	Equation of motion
	Day 4	19/11/2020	Thursday	Equation of motion
	Day 5	20/11/2020	Friday	Constrained motion
	Day 6	21/11/2020	Saturday	Activity
		22/11/2020	Sunday	
4TH WEEK	Day 1	23/11/2020	Monday	Degrees of freedom
	Day 2	24/11/2020	Tuesday	Numerical problems related to unit 1
	Day 3	25/11/2020	Wednesday	Assignment related to last 5 years questions of unit 1
	Day 4	26/11/2020	Thursday	Generalised coordinates
	Day 5	27/11/2020	Friday	Generalised displacement
	Day 6	28/11/2020	Saturday	Activity
		29/11/2020	Sunday	
4TH WEEK	Day 1	30/11/2020	Monday	**Guru Nanak Day**
	Day 2	01/12/2020	Tuesday	Generalised velocity
	Day 3	02/12/2020	Wednesday	Generalised acceleration
	Day 4	03/12/2020	Thursday	Generalised acceleration
	Day 5	04/12/2020	Friday	Generalised momentum
	Day 6	05/12/2020	Saturday	Activity
		06/12/2020	Sunday	
6TH WEEK	Day 1	07/12/2020	Monday	Generalised force
	Day 2	08/12/2020	Tuesday	Generalised potential
	Day 3	09/12/2020	Wednesday	Discussion related to above topics
	Day 4	10/12/2020	Thursday	Hamilton's variational principle
	Day 5	11/12/2020	Friday	Lagrange's equation of motion from Hamilton's Principle
	Day 6	12/12/2020	Saturday	Activity
		13/12/2020	Sunday	
7TH WEEK	Day 1	14/12/2020	Monday	Linear Harmonic oscillator
	Day 2	15/12/2020	Tuesday	Class test of Unit 1
	Day 3	16/12/2020	Wednesday	Discussion related to marks of class test of unit 1
	Day 4	17/12/2020	Thursday	Simple pendulum
	Day 5	18/12/2020	Friday	Atwood's machine
	Day 6	19/12/2020	Saturday	Activity
		20/12/2020	Sunday	
8TH WEEK	Day 1	21/12/2020	Monday	Numerical related to unit 2
	Day 2	22/12/2020	Tuesday	Numerical related to unit 2
	Day 3	23/12/2020	Wednesday	Discussion related to unit 2
	Day 4	24/12/2020	Thursday	Assignment related to last 5 years questions of unit 1
	Day 5	25/12/2020	Friday	**Christmas Day**
	Day 6	26/12/2020	Saturday	Activity
		27/12/2020	Sunday	
9TH WEEK	Day 1	28/12/2020	Monday	Rotation of Rigid body
	Day 2	29/12/2020	Tuesday	Moment of inertia
	Day 3	30/12/2020	Wednesday	Moment of torque
	Day 4	31/12/2020	Thursday	Moment of angular momentum

	Day 5	01/01/2021	Friday	Class test of Unit 2
	Day 6	02/01/2021	Saturday	Activity
		03/01/2021	Sunday	
10TH WEEK	Day 1	04/01/2021	Monday	Discussion related to marks of class test of unit 2
	Day 2	05/01/2021	Tuesday	Kinetic energy of rotation
	Day 3	06/01/2021	Wednesday	Theorems of perpendicular axes with proof
	Day 4	07/01/2021	Thursday	Theorems of parallel axes with proof
	Day 5	08/01/2021	Friday	Moment of inertia of hollow sphere
	Day 6	09/01/2021	Saturday	Activity
		10/01/2021	Sunday	
11TH WEEK	Day 1	11/01/2021	Monday	Moment of inertia of solid cylinder
	Day 2	12/01/2021	Tuesday	Moment of inertia of hollow cylinder
	Day 3	13/01/2021	Wednesday	Discussion related to above topics
	Day 4	14/01/2021	Thursday	Moment inertia solid bar of rectangular cross-section
	Day 5	15/01/2021	Friday	Moment inertia solid bar of rectangular cross-section
	Day 6	16/01/2021	Saturday	Activity
		17/01/2021	Sunday	
12TH WEEK	Day 1	18/01/2021	Monday	Numerical problems of unit 3
	Day 2	19/01/2021	Tuesday	Numerical problems of unit 3
	Day 3	20/01/2021	Wednesday	**Guru Govind Singh Jayanti**
	Day 4	21/01/2021	Thursday	Acceleration of a body rolling down on an inclined plane
	Day 5	22/01/2021	Friday	Discussion related to problems of unit 3
	Day 6	23/01/2021	Saturday	Activity
		24/01/2021	Sunday	
13TH WEEK	Day 1	25/01/2021	Monday	Assignment related to last 5 years questions of unit 1
	Day 2	26/01/2021	Tuesday	**Republic day**
	Day 3	27/01/2021	Wednesday	Revision of unit 1
	Day 4	28/01/2021	Thursday	Revision of unit 1
	Day 5	29/01/2021	Friday	Revision of unit 1
	Day 6	30/01/2021	Saturday	Activity
		31/01/2021	Sunday	
14th Week	Day 1	01/02/2021	Monday	Class test of unit 3
	Day 2	02/02/2021	Tuesday	Discussion related to marks of class test of unit 2
	Day 3	03/02/2021	Wednesday	Revision of unit 2
	Day 4	04/02/2021	Thursday	Revision of unit 2
	Day 5	05/02/2021	Friday	Revision of unit 3
	Day 6	06/02/2021	Saturday	Activity
		07/02/2021	Sunday	
15th Week	Day 1	08/02/2021	Monday	Revision
	Day 2	09/02/2021	Tuesday	Revision
	Day 3	10/02/2021	Wednesday	Revision
	Day 4	11/02/2021	Thursday	Revision
	Day 5	12/02/2021	Friday	Revision
	Day 6	13/02/2021	Saturday	Revision
		14/02/2021	Sunday	
16th Week	Day 1	15/02/2021	Monday	Revision
	Day 2	16/02/2021	Tuesday	**Basant Panchami**
	Day 3	17/02/2021	Wednesday	Revision
	Day 4	18/02/2021	Thursday	Revision
	Day 5	19/02/2021	Friday	**Mahashivratri**
	Day 6	20/02/2021	Saturday	Revision
		21/02/2021	Sunday	
17th Week	Day 1	22/02/2021	Monday	Revision
	Day 2	23/02/2021	Tuesday	Revision
	Day 3	24/02/2021	Wednesday	Revision
	Day 4	25/02/2021	Thursday	Revision
	Day 5	26/02/2021	Friday	Revision
	Day 6	27/02/2021	Saturday	**Guru Ravidas Jayanti**
		28/02/2021	Sunday	Revision
Name of the Assistant Professor:			**Rahul Singh**	
Class:			**B .Sc. 2nd Yr.**	
Subject:			**Physics**	
Period:			**November 20 - March 21**	
NOVEMBER 2020				

WEEK	DAY	DATE	DAYS	TOPICS
1st Week	Day 1	02/11/2020	Monday	Introduction of Computer Programming
	Day 2	03/11/2020	Tuesday	Computer organisation

	Day 3	04/11/2020	Wednesday	Binary representation
	Day 4	05/11/2020	Thursday	Algorithm development
	Day 5	06/11/2020	Friday	Algorithm development
	Day 6	07/11/2020	Saturday	Activity
		08/11/2020	Sunday	
2nd Week	Day 1	09/11/2020	Monday	Discussion on above topics
	Day 2	10/11/2020	Tuesday	Flow charts and their interpretation.
	Day 3	11/11/2020	Wednesday	interpretation of flow chart
	Day 4	12/11/2020	Thursday	Fortran Preliminaries
	Day 5	13/11/2020	Friday	**HOLIDAY**
	Day 6	14/11/2020	Saturday	
		15/11/2020	Sunday	
3rd WEEK	Day 1	16/11/2020	Monday	
	Day 2	17/11/2020	Tuesday	Integer arithmetic expression
	Day 3	18/11/2020	Wednesday	floating point arithmetic expression
	Day 4	19/11/2020	Thursday	Discussion on above topics
	Day 5	20/11/2020	Friday	Built in functions executable
	Day 6	21/11/2020	Saturday	Activity
		22/11/2020	Sunday	
4TH WEEK	Day 1	23/11/2020	Monday	Non-executable statements
	Day 2	24/11/2020	Tuesday	Input statements
	Day 3	25/11/2020	Wednesday	Output statements
	Day 4	26/11/2020	Thursday	Formats
	Day 5	27/11/2020	Friday	If statements
	Day 6	28/11/2020	Saturday	Activity
		29/11/2020	Sunday	
4TH WEEK	Day 1	30/11/2020	Monday	**Guru Nanak Day**
	Day 2	01/12/2020	Tuesday	do statements
	Day 3	02/12/2020	Wednesday	go to statements
	Day 4	03/12/2020	Thursday	Dimension arrays statement function
	Day 5	04/12/2020	Friday	function subprogram
	Day 6	05/12/2020	Saturday	Activity
		06/12/2020	Sunday	
6TH WEEK	Day 1	07/12/2020	Monday	Programme related on unit 1
	Day 2	08/12/2020	Tuesday	Programme related on unit 1
	Day 3	09/12/2020	Wednesday	Assignment related to last 5 years questions of unit 1
	Day 4	10/12/2020	Thursday	Discussion on problems of unit 1
	Day 5	11/12/2020	Friday	First law of thermodynamics
	Day 6	12/12/2020	Saturday	Activity
		13/12/2020	Sunday	
7TH WEEK	Day 1	14/12/2020	Monday	Second law of thermodynamics
	Day 2	15/12/2020	Tuesday	Carnot theorem
	Day 3	16/12/2020	Wednesday	Absolute scale of temperature
	Day 4	17/12/2020	Thursday	Absolute Zero
	Day 5	18/12/2020	Friday	Entropy
	Day 6	19/12/2020	Saturday	Activity
		20/12/2020	Sunday	
8TH WEEK	Day 1	21/12/2020	Monday	Joule's free expansion
	Day 2	22/12/2020	Tuesday	Joule Thomson (Porous plug) experiment
	Day 3	23/12/2020	Wednesday	Joule - Thomson effect
	Day 4	24/12/2020	Thursday	Liquefaction of gases
	Day 5	25/12/2020	Friday	**Christmas Day**
	Day 6	26/12/2020	Saturday	Activity
		27/12/2020	Sunday	
9TH WEEK	Day 1	28/12/2020	Monday	Air pollution due to internal combustion engine
	Day 2	29/12/2020	Tuesday	Numerical related on unit 2
	Day 3	30/12/2020	Wednesday	Numerical related on unit 2
	Day 4	31/12/2020	Thursday	Numerical related on unit 2
	Day 5	01/01/2021	Friday	Assignment related to last 5 years questions of unit 2
	Day 6	02/01/2021	Saturday	Activity
		03/01/2021	Sunday	
10TH WEEK	Day 1	04/01/2021	Monday	Discussion on problems of unit 2
	Day 2	05/01/2021	Tuesday	Derivation of Clausius - Claperyron latent heat equation.
	Day 3	06/01/2021	Wednesday	Class test of unit 2
	Day 4	07/01/2021	Thursday	Phase diagram substance
	Day 5	08/01/2021	Friday	Triple point of a substance
	Day 6	09/01/2021	Saturday	Activity
		10/01/2021	Sunday	
11TH WEEK	Day 1	11/01/2021	Monday	Discussion on marks of unit 2
	Day 2	12/01/2021	Tuesday	Development of Maxwell Thermodynamically relations
	Day 3	13/01/2021	Wednesday	Development of Maxwell Thermodynamically relations

	Day 4	14/01/2021	Thursday	Development of Maxwell Thermodynamically relations
	Day 5	15/01/2021	Friday	Application of Maxwell relations in the derivation
	Day 6	16/01/2021	Saturday	Activity
		17/01/2021	Sunday	
12TH WEEK	Day 1	18/01/2021	Monday	Relations between entropy
	Day 2	19/01/2021	Tuesday	Specific heats
	Day 3	20/01/2021	Wednesday	**Guru Govind Singh Jayanti**
	Day 4	21/01/2021	Thursday	Thermodynamic variables
	Day 5	22/01/2021	Friday	Thermodynamic functions
	Day 6	23/01/2021	Saturday	Activity
		24/01/2021	Sunday	
13TH WEEK	Day 1	25/01/2021	Monday	Thermodynamic functions
	Day 2	26/01/2021	Tuesday	**Republic day**
	Day 3	27/01/2021	Wednesday	Internal energy (U)
	Day 4	28/01/2021	Thursday	Helmholtz function (F),
	Day 5	29/01/2021	Friday	Enthalpy(H)
	Day 6	30/01/2021	Saturday	Activity
		31/01/2021	Sunday	
14th Week	Day 1	01/02/2021	Monday	Gibbs function (G)
	Day 2	02/02/2021	Tuesday	Relation between U,F,H and G
	Day 3	03/02/2021	Wednesday	Numerical based on unit 3
	Day 4	04/02/2021	Thursday	Assignment related to last 5 years questions of unit 3
	Day 5	05/02/2021	Friday	Revision of unit 3
	Day 6	06/02/2021	Saturday	Activity
		07/02/2021	Sunday	
15th Week	Day 1	08/02/2021	Monday	Revision of unit 3
	Day 2	09/02/2021	Tuesday	Revision of unit 3
	Day 3	10/02/2021	Wednesday	Revision of unit 3
	Day 4	11/02/2021	Thursday	Combine class test of unit1,2 and 3
	Day 5	12/02/2021	Friday	Discussion related to marks of class test of unit 1,2 and 3
	Day 6	13/02/2021	Saturday	Activity
		14/02/2021	Sunday	
16th Week	Day 1	15/02/2021	Monday	Revision
	Day 2	16/02/2021	Tuesday	**Basant Panchami**
	Day 3	17/02/2021	Wednesday	Revision
	Day 4	18/02/2021	Thursday	Revision
	Day 5	19/02/2021	Friday	**Mahashivratri**
	Day 6	20/02/2021	Saturday	Revision
		21/02/2021	Sunday	
17th Week	Day 1	22/02/2021	Monday	Revision
	Day 2	23/02/2021	Tuesday	Revision
	Day 3	24/02/2021	Wednesday	Revision
	Day 4	25/02/2021	Thursday	Revision
	Day 5	26/02/2021	Friday	Revision
	Day 6	27/02/2021	Saturday	**Guru Ravidas Jayanti**
		28/02/2021	Sunday	Revision

Name of the Assistant Professor:			Rahul Singh	
Class:			B .Sc. 3rd Yr.	
Subject:			Physics	
Period:			November 20 - March 21	
NOVEMBER 2020				
WEEK	DAY	DATE	DAYS	TOPICS
1st Week	Day 1	02/11/2020	Monday	Introduction of Crystalline forms
	Day 2	03/11/2020	Tuesday	Introduction of glassy forms
	Day 3	04/11/2020	Wednesday	Liquid crystals
	Day 4	05/11/2020	Thursday	Crystal structure
	Day 5	06/11/2020	Friday	Periodicity
	Day 6	07/11/2020	Saturday	Activity
		08/11/2020	Sunday	
2nd Week	Day 1	09/11/2020	Monday	Lattice
	Day 2	10/11/2020	Tuesday	Basis
	Day 3	11/11/2020	Wednesday	Crystal translational vectors and axes
	Day 4	12/11/2020	Thursday	Crystal translational vectors and axes
	Day 5	13/11/2020	Friday	**HOLIDAY**
	Day 6	14/11/2020	Saturday	
		15/11/2020	Sunday	
3rd WEEK	Day 1	16/11/2020	Monday	

	Day 2	17/11/2020	Tuesday	Discussion related to problems of above topics
	Day 3	18/11/2020	Wednesday	Unit cell
	Day 4	19/11/2020	Thursday	Primitive cell
	Day 5	20/11/2020	Friday	Winger Seitz primitive Cell,
	Day 6	21/11/2020	Saturday	Activity
		22/11/2020	Sunday	
4TH WEEK	Day 1	23/11/2020	Monday	Symmetry operations for a two dimensional crystal
	Day 2	24/11/2020	Tuesday	Symmetry operations for a two dimensional crystal
	Day 3	25/11/2020	Wednesday	Bravais lattices in dimensions
	Day 4	26/11/2020	Thursday	Bravais lattices in three dimensions
	Day 5	27/11/2020	Friday	Bravais lattices in three dimensions
	Day 6	28/11/2020	Saturday	Activity
		29/11/2020	Sunday	
4TH WEEK	Day 1	30/11/2020	Monday	**Guru Nanak Day**
	Day 2	01/12/2020	Tuesday	Numerical problems of unit 1
	Day 3	02/12/2020	Wednesday	Numerical problems of unit 1
	Day 4	03/12/2020	Thursday	Numerical problems of unit 1
	Day 5	04/12/2020	Friday	Assignment related to last 5 years questions of unit 1
	Day 6	05/12/2020	Saturday	Activity
		06/12/2020	Sunday	
6TH WEEK	Day 1	07/12/2020	Monday	Discussion related to problems of unit 1
	Day 2	08/12/2020	Tuesday	Crystal planes
	Day 3	09/12/2020	Wednesday	Miller indices
	Day 4	10/12/2020	Thursday	Class test of unit 1
	Day 5	11/12/2020	Friday	Discussion on marks of unit 1
	Day 6	12/12/2020	Saturday	Activity
		13/12/2020	Sunday	
7TH WEEK	Day 1	14/12/2020	Monday	Interplannar spacing
	Day 2	15/12/2020	Tuesday	Crystal structures of Zinc sulphide
	Day 3	16/12/2020	Wednesday	Sodium Chloride crystal
	Day 4	17/12/2020	Thursday	Diamond crystal
	Day 5	18/12/2020	Friday	Discussion on problems of above topics
	Day 6	19/12/2020	Saturday	Activity
		20/12/2020	Sunday	
8TH WEEK	Day 1	21/12/2020	Monday	X-ray diffraction
	Day 2	22/12/2020	Tuesday	Bragg's Law
	Day 3	23/12/2020	Wednesday	Bragg's Law
	Day 4	24/12/2020	Thursday	Experimental x-ray diffraction methods of Bragg's Law
	Day 5	25/12/2020	Friday	**Christmas Day**
	Day 6	26/12/2020	Saturday	Activity
		27/12/2020	Sunday	
9TH WEEK	Day 1	28/12/2020	Monday	Experimental x-ray diffraction methods of Bragg's Law
	Day 2	29/12/2020	Tuesday	Discussion on above these topics
	Day 3	30/12/2020	Wednesday	K-space
	Day 4	31/12/2020	Thursday	Numerical problems of unit 2
	Day 5	01/01/2021	Friday	Numerical problems of unit 2
	Day 6	02/01/2021	Saturday	Activity
		03/01/2021	Sunday	
10TH WEEK	Day 1	04/01/2021	Monday	Assignment related to last 5 years questions of unit 1
	Day 2	05/01/2021	Tuesday	Discussion problems Unit 2
	Day 3	06/01/2021	Wednesday	Reciprocal lattice
	Day 4	07/01/2021	Thursday	Physical significance of reciprocal lattice
	Day 5	08/01/2021	Friday	Reciprocal lattice vectors
	Day 6	09/01/2021	Saturday	Activity
		10/01/2021	Sunday	
11TH WEEK	Day 1	11/01/2021	Monday	Reciprocal lattice vectors
	Day 2	12/01/2021	Tuesday	Reciprocal lattice to a simple cubic lattice
	Day 3	13/01/2021	Wednesday	Reciprocal lattice to a simple cubic lattice
	Day 4	14/01/2021	Thursday	B.c.c.
	Day 5	15/01/2021	Friday	F.c.c.
	Day 6	16/01/2021	Saturday	Activity
		17/01/2021	Sunday	
12TH WEEK	Day 1	18/01/2021	Monday	Discuss problems on above topics
	Day 2	19/01/2021	Tuesday	Specific heat of solids
	Day 3	20/01/2021	Wednesday	**Guru Govind Singh Jayanti**
	Day 4	21/01/2021	Thursday	Einstein's theory of specific heat
	Day 5	22/01/2021	Friday	Einstein's theory of specific heat
	Day 6	23/01/2021	Saturday	Activity
		24/01/2021	Sunday	
13TH WEEK	Day 1	25/01/2021	Monday	Class test of unit 2

	Day 2	26/01/2021	Tuesday	**Republic day**
	Day 3	27/01/2021	Wednesday	Marks discussion of unit 2
	Day 4	28/01/2021	Thursday	Debye model of specific heat of solids
	Day 5	29/01/2021	Friday	Debye model of specific heat of solids
	Day 6	30/01/2021	Saturday	Activity
		31/01/2021	Sunday	
14th Week	Day 1	01/02/2021	Monday	Numerical problems of unit 3
	Day 2	02/02/2021	Tuesday	Numerical problems of unit 3
	Day 3	03/02/2021	Wednesday	Discussion problems Unit 3
	Day 4	04/02/2021	Thursday	Discussion problems Unit 3
	Day 5	05/02/2021	Friday	Revision of unit 3
	Day 6	06/02/2021	Saturday	Activity
		07/02/2021	Sunday	
15th Week	Day 1	08/02/2021	Monday	Class test of unit 3
	Day 2	09/02/2021	Tuesday	Revision of unit 3
	Day 3	10/02/2021	Wednesday	Revision of unit 3
	Day 4	11/02/2021	Thursday	Revision of unit 3
	Day 5	12/02/2021	Friday	Combine class test of unit1,2 and 3
	Day 6	13/02/2021	Saturday	Activity
		14/02/2021	Sunday	
16th Week	Day 1	15/02/2021	Monday	Discussion related to marks of class test of unit 1,2 and 3
	Day 2	16/02/2021	Tuesday	**Basant Panchami**
	Day 3	17/02/2021	Wednesday	Revision
	Day 4	18/02/2021	Thursday	Revision
	Day 5	19/02/2021	Friday	**Mahashivratri**
	Day 6	20/02/2021	Saturday	Activity
		21/02/2021	Sunday	
17th Week	Day 1	22/02/2021	Monday	Revision
	Day 2	23/02/2021	Tuesday	Revision
	Day 3	24/02/2021	Wednesday	Revision
	Day 4	25/02/2021	Thursday	Revision
	Day 5	26/02/2021	Friday	Revision
	Day 6	27/02/2021	Saturday	**Guru Ravidas Jayanti**
		28/02/2021	Sunday	

LESSON PLAN (November 2020- February 2021)
PAPER-2

Class:	B .Sc. 1st Yr.
Subject:	Physics
Period:	November 20 - March 21

NOVEMBER 2020				

WEEK	DAY	DATE	DAYS	TOPICS
1st Week	Day 1	02/11/2020	Monday	Introduction of Scalars and Vectors
	Day 2	03/11/2020	Tuesday	Dot and Cross Product, Triple Vector Product
	Day 3	04/11/2020	Wednesday	Scalar and Vector Fields
	Day 4	05/11/2020	Thursday	Differentiation of a vector
	Day 5	06/11/2020	Friday	Discussion related to above these topics
	Day 6	07/11/2020	Saturday	Activity
		08/11/2020	Sunday	
2nd Week	Day 1	09/11/2020	Monday	Gradient of a scalar and its physical significance
	Day 2	10/11/2020	Tuesday	Integration of a vector (line, surface and volume integral)
	Day 3	11/11/2020	Wednesday	Physical significances of Integration of vector
	Day 4	12/11/2020	Thursday	Gauss's divergence theorem
	Day 5	13/11/2020	Friday	HOLIDAY
	Day 6	14/11/2020	Saturday	
		15/11/2020	Sunday	
3rd WEEK	Day 1	16/11/2020	Monday	
	Day 2	17/11/2020	Tuesday	Stocks theorem
	Day 3	18/11/2020	Wednesday	Discussion related to above these topics
	Day 4	19/11/2020	Thursday	Derivation of field E from potential as gradient
	Day 5	20/11/2020	Friday	Derivation of Laplace and Poisson equations
	Day 6	21/11/2020	Saturday	Activity
		22/11/2020	Sunday	
4TH WEEK	Day 1	23/11/2020	Monday	Electronic flux
	Day 2	24/11/2020	Tuesday	Gauss's Law and its application to spherical shell
	Day 3	25/11/2020	Wednesday	Uniformly charged infinite plane
	Day 4	26/11/2020	Thursday	Uniformity charged straight wire
	Day 5	27/11/2020	Friday	Mechanical force of charged surface

	Day 6	28/11/2020	Saturday	Activity
		29/11/2020	Sunday	
4TH WEEK	Day 1	30/11/2020	Monday	**Guru Nanak Day**
	Day 2	01/12/2020	Tuesday	Energy per unit volume
	Day 3	02/12/2020	Wednesday	Assignment related to last 5 years questions of unit 1
	Day 4	03/12/2020	Thursday	What is Magnetic Induction, magnetic flux
	Day 5	04/12/2020	Friday	Independence Day
	Day 6	05/12/2020	Saturday	Activity
		06/12/2020	Sunday	
6TH WEEK	Day 1	07/12/2020	Monday	Solenoid nature of Vector field of induction
	Day 2	08/12/2020	Tuesday	Properties of B (i) B = 0 (ii) B= J
	Day 3	09/12/2020	Wednesday	Class test of Unit 1
	Day 4	10/12/2020	Thursday	Electronic theory of dia magnetism
	Day 5	11/12/2020	Friday	Id-ul-Zuha(Bakrid)
	Day 6	12/12/2020	Saturday	Activity
		13/12/2020	Sunday	
7TH WEEK	Day 1	14/12/2020	Monday	Langevin's theory
	Day 2	15/12/2020	Tuesday	Discussion related to above these topics
	Day 3	16/12/2020	Wednesday	Domain theory of ferromagnetism
	Day 4	17/12/2020	Thursday	Cycle of Magnetisation
	Day 5	18/12/2020	Friday	Discussion related to marks of unit 1
	Day 6	19/12/2020	Saturday	Activity
		20/12/2020	Sunday	
8TH WEEK	Day 1	21/12/2020	Monday	What is Hysteresis
	Day 2	22/12/2020	Tuesday	importance of Hysteresis curve
	Day 3	23/12/2020	Wednesday	Discussion related to above these topics
	Day 4	24/12/2020	Thursday	Discussion related to problems of unit 2
	Day 5	25/12/2020	Friday	**Christmas Day**
	Day 6	26/12/2020	Saturday	Activity
		27/12/2020	Sunday	
9TH WEEK	Day 1	28/12/2020	Monday	Maxwell equation
	Day 2	29/12/2020	Tuesday	Derivation of Maxwell equation
	Day 3	30/12/2020	Wednesday	Derivation of Maxwell equation
	Day 4	31/12/2020	Thursday	What is Displacement Current
	Day 5	01/01/2021	Friday	Derivation of Displacement Current
	Day 6	02/01/2021	Saturday	Activity
		03/01/2021	Sunday	
10TH WEEK	Day 1	04/01/2021	Monday	Vector Potential
	Day 2	05/01/2021	Tuesday	Scalar Potential
	Day 3	06/01/2021	Wednesday	Class test of unit 2
	Day 4	07/01/2021	Thursday	Boundary conditions at interface b/w two different media
	Day 5	08/01/2021	Friday	Discussion related to above these topics
	Day 6	09/01/2021	Saturday	Activity
		10/01/2021	Sunday	
11TH WEEK	Day 1	11/01/2021	Monday	Discussion related to marks of unit 2
	Day 2	12/01/2021	Tuesday	Introduction of Electromagnetic waves
	Day 3	13/01/2021	Wednesday	Propagation of electromagnetic wave
	Day 4	14/01/2021	Thursday	Revision of Unit 1
	Day 5	15/01/2021	Friday	Revision of Unit 1
	Day 6	16/01/2021	Saturday	Activity
		17/01/2021	Sunday	
12TH WEEK	Day 1	18/01/2021	Monday	Revision of Unit 1
	Day 2	19/01/2021	Tuesday	Mahatma Gandhi Jaynti
	Day 3	20/01/2021	Wednesday	**Guru Govind Singh Jayanti**
	Day 4	21/01/2021	Thursday	Introduction of Poynting vector
	Day 5	22/01/2021	Friday	Derivation of Poynting vector
	Day 6	23/01/2021	Saturday	Activity
		24/01/2021	Sunday	
13TH WEEK	Day 1	25/01/2021	Monday	Revision of Unit 1
	Day 2	26/01/2021	Tuesday	**Republic day**
	Day 3	27/01/2021	Wednesday	Revision of Unit 1
	Day 4	28/01/2021	Thursday	Maharaja Agrasen Jayanti
	Day 5	29/01/2021	Friday	Numerical Problems of Unit 1
	Day 6	30/01/2021	Saturday	Activity
		31/01/2021	Sunday	
14th Week	Day 1	01/02/2021	Monday	Numerical Problems of Unit 1
	Day 2	02/02/2021	Tuesday	Poynting theorem
	Day 3	03/02/2021	Wednesday	Poynting theorem
	Day 4	04/02/2021	Thursday	Discussion related to above these topics
	Day 5	05/02/2021	Friday	Numerical Problems of Unit 2

	Day 6	06/02/2021	Saturday	Activity
		07/02/2021	Sunday	
15th Week	Day 1	08/02/2021	Monday	Numerical Problems of Unit 2
	Day 2	09/02/2021	Tuesday	Assignment related to last 5 years questions of unit 3
	Day 3	10/02/2021	Wednesday	Numerical Problems of Unit 3
	Day 4	11/02/2021	Thursday	Numerical Problems of Unit 3
	Day 5	12/02/2021	Friday	Class test of unit 3
	Day 6	13/02/2021	Saturday	Activity
		14/02/2021	Sunday	
16th Week	Day 1	15/02/2021	Monday	Discussion related to marks of unit 3
	Day 2	16/02/2021	Tuesday	**Basant Panchami**
	Day 3	17/02/2021	Wednesday	Combine class test of unit 1,2 and 3
	Day 4	18/02/2021	Thursday	Discussion related to marks of combine test
	Day 5	19/02/2021	Friday	**Mahashivratri**
	Day 6	20/02/2021	Saturday	Revision
		21/02/2021	Sunday	
17th Week	Day 1	22/02/2021	Monday	Revision
	Day 2	23/02/2021	Tuesday	Revision
	Day 3	24/02/2021	Wednesday	Revision
	Day 4	25/02/2021	Thursday	Revision
	Day 5	26/02/2021	Friday	Revision
	Day 6	27/02/2021	Saturday	**Guru Ravidas Jayanti**
		28/02/2021	Sunday	Revision

Class:		**B .Sc. 2nd Yr.**
Subject:		**Physics**
Period:		**November 20 - March 21**

NOVEMBER 2020

WEEK	DAY	DATE	DAYS	TOPICS
1st Week	Day 1	02/11/2020	Monday	Speed of transverse waves on a uniform string
	Day 2	03/11/2020	Tuesday	Speed of transverse waves on a uniform string
	Day 3	04/11/2020	Wednesday	Speed of longitudinal waves in a fluid
	Day 4	05/11/2020	Thursday	Speed of longitudinal waves in a fluid
	Day 5	06/11/2020	Friday	Superposition of waves
	Day 6	07/11/2020	Saturday	Activity
		08/11/2020	Sunday	
2nd Week	Day 1	09/11/2020	Monday	Fourier Analysis of complex waves
	Day 2	10/11/2020	Tuesday	Application of Fourier analysis
	Day 3	11/11/2020	Wednesday	Application for the solution of triangular waves
	Day 4	12/11/2020	Thursday	Application for the solution of rectangular waves
	Day 5	13/11/2020	Friday	
	Day 6	14/11/2020	Saturday	**HOLIDAY**
		15/11/2020	Sunday	
3rd WEEK	Day 1	16/11/2020	Monday	
	Day 2	17/11/2020	Tuesday	Discussion related to above these topics
	Day 3	18/11/2020	Wednesday	Half wave rectifier out puts.
	Day 4	19/11/2020	Thursday	Full wave rectifier out puts.
	Day 5	20/11/2020	Friday	Fourier transforms
	Day 6	21/11/2020	Saturday	Activity
		22/11/2020	Sunday	
4TH WEEK	Day 1	23/11/2020	Monday	Properties of Fourier Transform
	Day 2	24/11/2020	Tuesday	Application of Fourier transform to following function f(x) = e-
	Day 3	25/11/2020	Wednesday	Application of Fourier transform to following function I [x] <a, 0
	Day 4	26/11/2020	Thursday	Numerical related to Fourier series
	Day 5	27/11/2020	Friday	Numerical related to Fourier series
	Day 6	28/11/2020	Saturday	Activity
		29/11/2020	Sunday	
4TH WEEK	Day 1	30/11/2020	Monday	**Guru Nanak Day**
	Day 2	01/12/2020	Tuesday	Numerical related to Fourier transform
	Day 3	02/12/2020	Wednesday	Numerical related to Fourier transform
	Day 4	03/12/2020	Thursday	Numerical related to Fourier transform
	Day 5	04/12/2020	Friday	Assignment related to last 5 years questions of unit 1
	Day 6	05/12/2020	Saturday	Activity
		06/12/2020	Sunday	
6TH WEEK	Day 1	07/12/2020	Monday	Discussion on problems facing by students in unit 1
	Day 2	08/12/2020	Tuesday	Class test of unit 1
	Day 3	09/12/2020	Wednesday	Id-ul-Zuha(Bakrid)
	Day 4	10/12/2020	Thursday	Discussion on marks of unit 1

	Day 5	11/12/2020	Friday	Introduction of Geometrical Optics
	Day 6	12/12/2020	Saturday	Activity
		13/12/2020	Sunday	
7TH WEEK	Day 1	14/12/2020	Monday	Matrix methods in paraxial optics
	Day 2	15/12/2020	Tuesday	Effects of translation
	Day 3	16/12/2020	Wednesday	Effects of refraction
	Day 4	17/12/2020	Thursday	Derivation of thin lens formulae,
	Day 5	18/12/2020	Friday	Derivation of thick lens formulae,
	Day 6	19/12/2020	Saturday	Activity
		20/12/2020	Sunday	
8TH WEEK	Day 1	21/12/2020	Monday	Discussion related to problems on above topics
	Day 2	22/12/2020	Tuesday	Unit plane
	Day 3	23/12/2020	Wednesday	Nodal planes
	Day 4	24/12/2020	Thursday	System of thin lenses
	Day 5	25/12/2020	Friday	**Christmas Day**
	Day 6	26/12/2020	Saturday	Activity
		27/12/2020	Sunday	
9TH WEEK	Day 1	28/12/2020	Monday	Chromatic
	Day 2	29/12/2020	Tuesday	Spherical coma
	Day 3	30/12/2020	Wednesday	Astigmatism
	Day 4	31/12/2020	Thursday	distortion aberrations
	Day 5	01/01/2021	Friday	Remedies of distortion
	Day 6	02/01/2021	Saturday	Activity
		03/01/2021	Sunday	
10TH WEEK	Day 1	04/01/2021	Monday	Remedies of distortion
	Day 2	05/01/2021	Tuesday	Physical Optics
	Day 3	06/01/2021	Wednesday	Assignment related to last 5 years questions of unit 2
	Day 4	07/01/2021	Thursday	Discussion related to problems facing by students in unit 2
	Day 5	08/01/2021	Friday	Class test of unit 2
	Day 6	09/01/2021	Saturday	Activity
		10/01/2021	Sunday	
11TH WEEK	Day 1	11/01/2021	Monday	Discussion on marks of unit 2
	Day 2	12/01/2021	Tuesday	Introduction of Interference
	Day 3	13/01/2021	Wednesday	Types of interferences
	Day 4	14/01/2021	Thursday	Interference by Division of wave front
	Day 5	15/01/2021	Friday	Fresnel's Biprism
	Day 6	16/01/2021	Saturday	Activity
		17/01/2021	Sunday	
12TH WEEK	Day 1	18/01/2021	Monday	Applications of Fresnel's Biprism
	Day 2	19/01/2021	Tuesday	Applications of Fresnel's Biprism
	Day 3	20/01/2021	Wednesday	**Guru Govind Singh Jayanti**
	Day 4	21/01/2021	Thursday	Discussion on problems of above topics
	Day 5	22/01/2021	Friday	Determination of wave length of sodium light
	Day 6	23/01/2021	Saturday	Activity
		24/01/2021	Sunday	
13TH WEEK	Day 1	25/01/2021	Monday	Determination thickness of a mica sheet
	Day 2	26/01/2021	Tuesday	**Republic day**
	Day 3	27/01/2021	Wednesday	Determination thickness of a mica sheet
	Day 4	28/01/2021	Thursday	Lioyd's mirror
	Day 5	29/01/2021	Friday	Lioyd's mirror
	Day 6	30/01/2021	Saturday	Activity
		31/01/2021	Sunday	
14th Week	Day 1	01/02/2021	Monday	Discussion on problems of above topics
	Day 2	02/02/2021	Tuesday	Dussehra
	Day 3	03/02/2021	Wednesday	Phase change on reflection
	Day 4	04/02/2021	Thursday	Numerical problems of unit 2
	Day 5	05/02/2021	Friday	Numerical problems of unit 2
	Day 6	06/02/2021	Saturday	Activity
		07/02/2021	Sunday	
15th Week	Day 1	08/02/2021	Monday	Assignment related to last 5 years questions of unit
	Day 2	09/02/2021	Tuesday	Numerical problems of unit 3
	Day 3	10/02/2021	Wednesday	Numerical problems of unit 3
	Day 4	11/02/2021	Thursday	Class test of unit 3
	Day 5	12/02/2021	Friday	Numerical problems of unit 3
	Day 6	13/02/2021	Saturday	Activity
		14/02/2021	Sunday	
16th Week	Day 1	15/02/2021	Monday	Combine class test of units 1,2 and 3
	Day 2	16/02/2021	Tuesday	**Basant Panchami**
	Day 3	17/02/2021	Wednesday	Revision
	Day 4	18/02/2021	Thursday	Revision

	Day 5	19/02/2021	Friday	**Mahashivratri**
	Day 6	20/02/2021	Saturday	Revision
		21/02/2021	Sunday	
17th Week	Day 1	22/02/2021	Monday	Revision
	Day 2	23/02/2021	Tuesday	Revision
	Day 3	24/02/2021	Wednesday	Revision
	Day 4	25/02/2021	Thursday	Revision
	Day 5	26/02/2021	Friday	Revision
	Day 6	27/02/2021	Saturday	**Guru Ravidas Jayanti**
		28/02/2021	Sunday	Revision

Class:	B .Sc. 3rd Yr.
Subject:	Physics
Period:	November 20 - March 21

NOVEMBER 2020

WEEK	DAY	DATE	DAYS	TOPICS
1st Week	Day 1	02/11/2020	Monday	Failure of (Classical) E.M. Theory
	Day 2	03/11/2020	Tuesday	Quantum theory of radiation (old quantum theory)
	Day 3	04/11/2020	Wednesday	Old Quantum theory
	Day 4	05/11/2020	Thursday	Photon
	Day 5	06/11/2020	Friday	Photoelectric effect
	Day 6	07/11/2020	Saturday	Activity
		08/11/2020	Sunday	
2nd Week	Day 1	09/11/2020	Monday	Einstein's photoelectric equation
	Day 2	10/11/2020	Tuesday	Derivation of photoelectric equation
	Day 3	11/11/2020	Wednesday	Compton effect (theory)
	Day 4	12/11/2020	Thursday	Compton effect (result)
	Day 5	13/11/2020	Friday	
	Day 6	14/11/2020	Saturday	**HOLIDAY**
		15/11/2020	Sunday	
3rd WEEK	Day 1	16/11/2020	Monday	
	Day 2	17/11/2020	Tuesday	Inadequacy of old quantum theory
	Day 3	18/11/2020	Wednesday	De-Broglie hypothesis
	Day 4	19/11/2020	Thursday	Davisson and Germer experiment
	Day 5	20/11/2020	Friday	G.P. Thomson experiment
	Day 6	21/11/2020	Saturday	Activity
		22/11/2020	Sunday	
4TH WEEK	Day 1	23/11/2020	Monday	Phase velocity group velocity
	Day 2	24/11/2020	Tuesday	Derivation of Phase velocity group velocity
	Day 3	25/11/2020	Wednesday	Heisenberg's uncertainty principle
	Day 4	26/11/2020	Thursday	Time-energy and angular momentum
	Day 5	27/11/2020	Friday	Position uncertainty
	Day 6	28/11/2020	Saturday	Activity
		29/11/2020	Sunday	
4TH WEEK	Day 1	30/11/2020	Monday	**Guru Nanak Day**
	Day 2	01/12/2020	Tuesday	Uncertainty principle from de-Broglie wave
	Day 3	02/12/2020	Wednesday	Independence Day
	Day 4	03/12/2020	Thursday	Wave-particle duality
	Day 5	04/12/2020	Friday	Gamma Ray Microscope
	Day 6	05/12/2020	Saturday	Activity
		06/12/2020	Sunday	
6TH WEEK	Day 1	07/12/2020	Monday	Electron diffraction from a slit.
	Day 2	08/12/2020	Tuesday	Numerical of unit 1
	Day 3	09/12/2020	Wednesday	Numerical of unit 1
	Day 4	10/12/2020	Thursday	Numerical of unit 1
	Day 5	11/12/2020	Friday	Assignment related to last 5 years questions of unit 1
	Day 6	12/12/2020	Saturday	Activity
		13/12/2020	Sunday	
7TH WEEK	Day 1	14/12/2020	Monday	Discuss problems facing by students in unit 1
	Day 2	15/12/2020	Tuesday	Derivation of time dependent Schrodinger wave equation
	Day 3	16/12/2020	Wednesday	Eigen values of Schrodinger wave equation
	Day 4	17/12/2020	Thursday	Eigen functions of Schrodinger wave equation
	Day 5	18/12/2020	Friday	
	Day 6	19/12/2020	Saturday	Activity
		20/12/2020	Sunday	
8TH WEEK	Day 1	21/12/2020	Monday	Class test of unit 1
	Day 2	22/12/2020	Tuesday	Wave functions of Schrodinger wave equation
	Day 3	23/12/2020	Wednesday	Physical significance of Schrodinger wave equation

	Day 4	24/12/2020	Thursday	Marks discussion on unit 1
	Day 5	25/12/2020	Friday	**Christmas Day**
	Day 6	26/12/2020	Saturday	Activity
		27/12/2020	Sunday	
9TH WEEK	Day 1	28/12/2020	Monday	Normalization of wave function
	Day 2	29/12/2020	Tuesday	Concept of observable
	Day 3	30/12/2020	Wednesday	Concept of operator
	Day 4	31/12/2020	Thursday	Solution of Schrodinger equation for harmomic oscillator
	Day 5	01/01/2021	Friday	Solution of Schrodinger equation for ground state
	Day 6	02/01/2021	Saturday	Activity
		03/01/2021	Sunday	
10TH WEEK	Day 1	04/01/2021	Monday	Solution of Schrodinger equation for excites state
	Day 2	05/01/2021	Tuesday	Numerical problems of unit 2
	Day 3	06/01/2021	Wednesday	Numerical problems of unit 2
	Day 4	07/01/2021	Thursday	Numerical problems of unit 2
	Day 5	08/01/2021	Friday	Assignment related to last 5 years questions of unit 2
	Day 6	09/01/2021	Saturday	Activity
		10/01/2021	Sunday	
11TH WEEK	Day 1	11/01/2021	Monday	Discuss problems facing by students in unit 2
	Day 2	12/01/2021	Tuesday	Application of Schrodinger equation in the solution of one-dimensional
	Day 3	13/01/2021	Wednesday	Application of Schrodinger equation in the solution of one-dimensional
	Day 4	14/01/2021	Thursday	Free particle in one dimensional box
	Day 5	15/01/2021	Friday	Free particle in one dimensional box
	Day 6	16/01/2021	Saturday	Activity
		17/01/2021	Sunday	
12TH WEEK	Day 1	18/01/2021	Monday	Solution of Schrodinger wave equation
	Day 2	19/01/2021	Tuesday	Solution of Schrodinger Eigen function
	Day 3	20/01/2021	Wednesday	**Guru Govind Singh Jayanti**
	Day 4	21/01/2021	Thursday	Solution of Schrodinger Eigen values
	Day 5	22/01/2021	Friday	Solution of Schrodinger quantization of energy
	Day 6	23/01/2021	Saturday	Activity
		24/01/2021	Sunday	
13TH WEEK	Day 1	25/01/2021	Monday	Solution of Schrodinger momentum
	Day 2	26/01/2021	Tuesday	**Republic day**
	Day 3	27/01/2021	Wednesday	Solution of Schrodinger nodes
	Day 4	28/01/2021	Thursday	Maharaja Agrasen Jayanti
	Day 5	29/01/2021	Friday	Solution of Schrodinger antinodes
	Day 6	30/01/2021	Saturday	Activity
		31/01/2021	Sunday	
14th Week	Day 1	01/02/2021	Monday	Solution of Schrodinger zero point energy
	Day 2	02/02/2021	Tuesday	Discuss problems on above topics
	Day 3	03/02/2021	Wednesday	One-dimensional potential barrier E>V0 (Reflection)
	Day 4	04/02/2021	Thursday	One-dimensional potential barrier E>V0 (Transmission coefficient)
	Day 5	05/02/2021	Friday	One-dimensional potential barrier E<V0 (Reflection Coefficient)
	Day 6	06/02/2021	Saturday	Activity
		07/02/2021	Sunday	
15th Week	Day 1	08/02/2021	Monday	One-dimensional potential barrier E<V0 (penetration of leakage
	Day 2	09/02/2021	Tuesday	One-dimensional potential barrier E<V0 (penetration depth)
	Day 3	10/02/2021	Wednesday	Numerical problems of unit 3
	Day 4	11/02/2021	Thursday	Assignment related to last 5 years questions of unit 3
	Day 5	12/02/2021	Friday	Discuss problems faced by students of unit 3
	Day 6	13/02/2021	Saturday	Activity
		14/02/2021	Sunday	
16th Week	Day 1	15/02/2021	Monday	Class test of unit 3
	Day 2	16/02/2021	Tuesday	**Basant Panchami**
	Day 3	17/02/2021	Wednesday	Revision
	Day 4	18/02/2021	Thursday	Revision
	Day 5	19/02/2021	Friday	**Mahashivratri**
	Day 6	20/02/2021	Saturday	Activity
		21/02/2021	Sunday	
17th Week	Day 1	22/02/2021	Monday	Revision
	Day 2	23/02/2021	Tuesday	Revision
	Day 3	24/02/2021	Wednesday	Revision
	Day 4	25/02/2021	Thursday	Revision
	Day 5	26/02/2021	Friday	Revision
	Day 6	27/02/2021	Saturday	**Guru Ravidas Jayanti**
		28/02/2021	Sunday	Revision