## NBGSM College Lesson Plan (July 2019- Nov 2019)

Name of Assistant Professor :	RAHUL SINGH
Class :	B.Sc (Non-Medical)
Semester:	1
Subject:	Physics Paper-1

	Day	Date	Торіс
1st Week	1	16-Jul-19	Mechanics of single particle
	2	17-Jul-19	Mechanics of system of particles
	3	18-Jul-19	Conservation of laws of linear momentum
	4	19-Jul-19	Discussion related to above these topics
	5	20-Jul-19	Activity
	Sunday	21-Jul-19	
2nd Week	1	22-Jul-19	Conservation of laws of angular momentum
	2	23-Jul-19	Conservation of laws of angular momentum
	3	24-Jul-19	Conservation of laws of mechanical energy
	4	25-Jul-19	Discussion related to above these topics
	5	26-Jul-19	What is centre of mass
	6	27-Jul-19	Activity
	Sunday	28-Jul-19	
3rd week	1	29-Jul-19	What is centre of mass
	2	30-Jul-19	Equation of motion
	3	31-Jul-19	Holiday
	4	1-Aug-19	Equation of motion
	5	2-Aug-19	Constrained motion
	6	3-Aug-19	Activity
	Sunday	4-Aug-19	
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4th week	1	5-Aug-19	Degrees of freedom
	2	6-Aug-19	Numerical problems related to unit 1
	3	7-Aug-19	Assignment related to last 5 years questions of unit 1
	4	8-Aug-19	Generalised coordinates
	5	9-Aug-19	Generalised displacement
		10-Aug-19	Activity
	Sunday	11-Aug-19	
5th week	1	12-Aug-19	Holiday
	2	13-Aug-19	Generalised velocity
	3	14-Aug-19	Generalised acceleration
	4	15-Aug-19	Holiday
	5	16-Aug-19	Generalised momentum
	6	17-Aug-19	Activity
	Sunday	18-Aug-19	
6th week	1	19-Aug-19	Generalised force
	2	20-Aug-19	Generalised potential
	3	21-Aug-19	Discussion related to above topics
	4	22-Aug-19	Hamilton's variational principle
	5	23-Aug-19	Lagrange's equation of motion from Hamilton's Principle
	6	24-Aug-19	Holiday
	Sunday	25-Aug-19	

7th week	1	26-Aug-19	Linear Harmonic oscillator
	2	27-Aug-19	Class test of Unit 1
	3	28-Aug-19	Discussion related to marks of class test of unit 1
	4	29-Aug-19	Simple pendulum
	5	30-Aug-19	Atwood's machine
	6	31-Aug-19	Activity
	Sunday	1-Sep-19	
8th week	1	2-Sep-19	Numerical related to unit 2
	2	3-Sep-19	Numerical related to unit 2
	3	4-Sep-19	Discussion related to unit 2
	4	5-Sep-19	Assignment related to last 5 years questions of unit 1
	5	6-Sep-19	Rotation of Rigid body
	6	7-Sep-19	Activity
	Sunday	8-Sep-19	
9th week	1	9-Sep-19	Moment of inertia
	2	10-Sep-19	Moment of torque
	3	10 Sep 19	Moment of angular momentum
	4	12-Sep-19	Class test of Unit 2
	5	13-Sep-19	Discussion related to marks of class test of unit 2
	6	14-Sep-19	Activity
	Sunday	15-Sep-19	
10th week	1	16-Sep-19	Kinetic energy of rotation
	2	17-Sep-19	Theorems of perpendicular axes with proof
	3	18-Sep-19	Theorems of parallel axes with proof
	4	19-Sep-19	Moment of inertia of hollow sphere
	5	20-Sep-19	Moment of inertia of spherical shell
	6	21-Sep-19	Activity
	Sunday	22-Sep-19	
11th week	1	23-Sep-19	Holiday
	2	24-Sep-19	Moment of inertia of solid cylinder
	3	25-Sep-19	Moment of inertia of hollow cylinder
	4	26-Sep-19	Discussion related to above topics
	5	27-Sep-19	Moment inertia solid bar of rectangular cross-section
	6	28-Sep-19	Activity
	Sunday	29-Sep-19	
12th week	1	30-Sep-19	Moment inertia solid bar of rectangular cross-section
	2	1-Oct-19	Numerical problems of unit 3
	3	2-Oct-19	Holiday
	4	3-Oct-19	Numerical problems of unit 3
	5	4-Oct-19	Numerical problems of unit 3
	6	5-Oct-19	Activity
	-		
	Sunday	6-Oct-19	
	Sunday	6-000-19	
13th week	Sunday 1	7-Oct-19	Acceleration of a body rolling down on an inclined plane
13th week			Acceleration of a body rolling down on an inclined plane Holiday
13th week	1	7-Oct-19	
13th week	1 2	7-Oct-19 8-Oct-19	Holiday
13th week	1 2 3	7-Oct-19 8-Oct-19 9-Oct-19	Holiday Acceleration of a body rolling down on an inclined plane
13th week	1 2 3 4	7-Oct-19 8-Oct-19 9-Oct-19 10-Oct-19	Holiday     Acceleration of a body rolling down on an inclined plane     Discussion related to problems of unit 3

14th week	1	14-Oct-19	Revision of unit 1
	2	15-Oct-19	Revision of unit 1
	3	16-Oct-19	Revision of unit 1
	4	17-Oct-19	Holiday
	5	18-Oct-19	Class test of unit 3
	6	19-Oct-19	Activity
	Sunday	20-Oct-19	
	Sunday	20 000 10	
15th week	1	21-Oct-19	Discussion related to marks of class test of unit 2
	2	22-Oct-19	Revision of unit 2
	3	23-Oct-19	Revision of unit 2
	4	24-Oct-19	
	5	25-Oct-19	Vacations
	6	26-Oct-19	Vacations
	Sunday	27-Oct-19	
16th week	1	28-Oct-19	
	2	29-Oct-19	Vacations
	3	30-Oct-19	
	4	31-Oct-19	Revision of unit 3
	5	1-Nov-19	Holiday
	6	2-Nov-19	Activity
	Sunday	3-Nov-19	
17th week	1	4-Nov-19	Revision of unit 3
	2	5-Nov-19	Revision of unit 3
	3	6-Nov-19	Revision of unit 3
	4	7-Nov-19	Combine class test of unit1,2 and 3
	5	8-Nov-19	Discussion related to marks of class test of unit 1,2 and 3
	-	9-Nov-19 10-Nov-19	
	Sunday	10-100-19	
Name of Assistant Professor :	RAHI	UL SINGH	-
Class :		on-Medical)	-
Semester:	B.50 (14	3	-
Subject:	Physic	cs Paper-1	-
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1st Week	Day	Date	Торіс
<b></b>	1	16-Jul-19	Introduction of Computer Programming
	2	17-Jul-19	Computer organisation
	3	18-Jul-19	Binary representation
<u> </u>	4	19-Jul-19	Algorithm development
	5	20-Jul-19	Activity
	Sunday	21-Jul-19	
2nd Week	1	22-Jul-19	Discussion on above topics
	2	23-Jul-19	Flow charts and their interpretation.
	3	24-Jul-19	interpretation of flow chart
	4	25-Jul-19	Fortran Preliminaries
	5	26-Jul-19	Integer arithmetic expression
	6	27-Jul-19	Activity
	Sunday	28-Jul-19	
3rd week		29-Jul-19	floating point arithmetic expression

	2	30-Jul-19	Discussion on above topics
	3	31-Jul-19	Holiday
	4	1-Aug-19	Built in functions executable
	5	2-Aug-19	Non-executable statements
	6	3-Aug-19	Activity
	Sunday	4-Aug-19	Activity
	Sulluay	4-Aug-15	
4th week	1	5-Aug-19	Input statements
	2	6-Aug-19	Output statements
	3	7-Aug-19	Formats
	4	8-Aug-19	If statements
	5	9-Aug-19	do statements
	6	10-Aug-19	Activity
	Sunday	11-Aug-19	
5th week	1	12-Aug-19	Holiday
	2	13-Aug-19	go to statements
	3	14-Aug-19	Dimension arrays statement function
	4	15-Aug-19	Holiday
	5	16-Aug-19	function subprogram
	6	17-Aug-19	Activity
	Sunday	18-Aug-19	
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6th week	1	19-Aug-19	Programme related on unit 1
	2	20-Aug-19	Programme related on unit 1
	3	21-Aug-19	Assignment related to last 5 years questions of unit 1
	4 5	22-Aug-19 23-Aug-19	Discussion on problems of unit 1 First law of thermodynamics
	6	23-Aug-19 24-Aug-19	Holiday
	Sunday	25-Aug-19	
	,		
7th week	1	26-Aug-19	Second law of thermodynamics
	2	27-Aug-19	Carnot theorem
	3	28-Aug-19	Absolute scale of temperature
	4	29-Aug-19	Absolute Zero
	5	30-Aug-19	Entropy
	6	31-Aug-19	Activity
	Sunday	1-Sep-19	
8th week	1	2-Sep-19	Class test of unit 1
	2	3-Sep-19	Show that dQ/T=O
	3	4-Sep-19	T-S diagram
	4	5-Sep-19	Discussion on marks of unit 1
	5	6-Sep-19	Nernst heat law
	6	7-Sep-19	Activity
	Sunday	8-Sep-19	
9th week	1	9-Sep-19	Joule's free expansion
	2	10-Sep-19	Joule Thomson (Porous plug) experiment
	3	11-Sep-19	Joule - Thomson effect
	4	12-Sep-19	Liquefaction of gases
		13-Sep-19	Air pollution due to internal combustion engine
	5		
	5		Activity
	6	14-Sep-19	Activity
			Activity

	2	17 Car 10	
	2	17-Sep-19	Numerical related on unit 2 Numerical related on unit 2
	3	18-Sep-19	
	4	19-Sep-19	Assignment related to last 5 years questions of unit 2
	5	20-Sep-19	Discussion on problems of unit 2
	6 Sundau	21-Sep-19	Activity
	Sunday	22-Sep-19	
11th week	1	23-Sep-19	Holiday
	2	24-Sep-19	Derivation of Clausius - Claperyron latent heat equation.
	3	25-Sep-19	Class test of unit 2
	4	26-Sep-19	Phase diagram substance
	5	27-Sep-19	Triple point of a substance
	6	28-Sep-19	Activity
	Sunday	29-Sep-19	
12th week	1	30-Sep-19	Discussion on marks of unit 2
	2	1-Oct-19	Development of Maxwell Thermodynamically relations
	3	2-Oct-19	Holiday
	4	3-Oct-19	Development of Maxwell Thermodynamically relations
	5	4-Oct-19	Application of Maxwell relations in the derivation
	6	5-Oct-19	Activity
<u> </u>	Sunday	6-Oct-19	
13th week	1	7-Oct-19	Relations between entropy
	2	8-Oct-19	Holiday
	3	9-Oct-19	Specific heats
	4	10-Oct-19	Thermodynamic variables
	5	11-Oct-19	Thermodynamic functions
	6	12-Oct-19	Activity
	Sunday	13-Oct-19	
14th week	1	14-Oct-19	Internal energy (U)
	2	15-Oct-19	Helmholtz function (F),
	3	16-Oct-19	Enthalpy(H)
	4	17-Oct-19	Holiday
	5	18-Oct-19	Gibbs function (G)
	6	19-Oct-19	Activity
	Sunday	20-Oct-19	
15th week	1	21 0 -+ 10	Polation between U.F.U.and C
15th week	1 2	21-Oct-19	Relation between U,F,H and G Numerical based on unit 3
	3	22-Oct-19 23-Oct-19	Assignment related to last 5 years questions of unit 3
	4	23-Oct-19 24-Oct-19	Vacations
	5	25-Oct-19	
	6	26-Oct-19	
	Sunday	27-Oct-19	
16th week	1	28-Oct-19	Vacations
	2	29-Oct-19	
	3	30-Oct-19	
	4	31-Oct-19	Revision of unit 3
	5	1-Nov-19	Holiday
	6	2-Nov-19	Activity
	Sunday	3-Nov-19	
17th week	1	4-Nov-19	Revision of unit 3

2	5-Nov-19	Revision of unit 3
3	6-Nov-19	Revision of unit 3
4	7-Nov-19	Combine class test of unit1,2 and 3
5	8-Nov-19	Discussion related to marks of class test of unit 1,2 and 3
6	9-Nov-19	
Sunday	10-Nov-19	

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Name of Assistant Professor :	RAHUL SINGH
Class :	B.Sc (Non-Medical)
Semester:	5
Subject:	Physics Paper-1

Day1	i	Торіс
	16-Jul-19	Introduction of Crystalline forms
2	17-Jul-19	Introduction of glassy forms
3	18-Jul-19	Liquid crystals
4	19-Jul-19	Crystal structure
5	20-Jul-19	Activity
Sunday	21-Jul-19	
1	22-Jul-19	Periodicity
2	23-Jul-19	Lattice
3	24-Jul-19	Basis
4	25-Jul-19	Crystal translational vectors and axes
5	26-Jul-19	Crystal translational vectors and axes
6	27-Jul-19	Activity
Sunday	28-Jul-19	
1	29-Jul-19	Discussion related to problems of above topics
2	30-Jul-19	Unit cell
3	31-Jul-19	Holiday
4	1-Aug-19	Primitive cell
5	2-Aug-19	Winger Seitz primitive Cell,
6	3-Aug-19	Activity
Sunday	4-Aug-19	
1	5-Aug-19	Symmetry operations for a two dimensional crystal
2	6-Aug-19	Symmetry operations for a two dimensional crystal
3	7-Aug-19	Bravais lattices in dimensions
4	8-Aug-19	Bravais lattices in three dimensions
5	9-Aug-19	Bravais lattices in three dimensions
6	10-Aug-19	Activity
Sunday	11-Aug-19	
1	12-Aug-19	Holiday
2	13-Aug-19	Numerical problems of unit 1
3	14-Aug-19	Numerical problems of unit 1
4	15-Aug-19	Holiday
5	16-Aug-19	Numerical problems of unit 1
6	17-Aug-19	Activity
Sunday	18-Aug-19	
1	19-Διισ-19	Assignment related to last 5 years questions of unit 1
		Discussion related to problems of unit 1
	4       5       Sunday       1       2       3       4       5       6       3 <tr td=""></tr>	4     19-Jul-19       5     20-Jul-19       Sunday     21-Jul-19       1     22-Jul-19       2     23-Jul-19       3     24-Jul-19       4     25-Jul-19       5     26-Jul-19       6     27-Jul-19       5     26-Jul-19       6     27-Jul-19       Sunday     28-Jul-19       1     29-Jul-19       3     31-Jul-19       4     1-Aug-19       3     31-Jul-19       4     1-Aug-19       5     2-Aug-19       6     3-Aug-19       5     2-Aug-19       6     3-Aug-19       2     6-Aug-19       3     7-Aug-19       3     7-Aug-19       4     8-Aug-19       5     9-Aug-19       6     10-Aug-19       5     9-Aug-19       6     10-Aug-19       2     13-Aug-19       3     14-Aug-19       3

	2	21 Aug 10	
	3	21-Aug-19	Crystal planes
	4	22-Aug-19	Miller indices
	5	23-Aug-19	Class test of unit 1
	6	24-Aug-19	Holiday
	Sunday	25-Aug-19	
7th week	1	26-Aug-19	Discussion on marks of unit 1
	2	27-Aug-19	Interplannar spacing
<u> </u>	3	28-Aug-19	Crystal structures of Zinc sulphide
<u> </u>	4	29-Aug-19	Sodium Chloride crystal
	5	30-Aug-19	Diamond crystal
	6	31-Aug-19	Activity
<u> </u>	Sunday	1-Sep-19	
<u> </u>			
8th week	1	2-Sep-19	Discussion on problems of above topics
	2	3-Sep-19	X-ray diffraction
<u> </u>	3	4-Sep-19	Bragg's Law
<u> </u>	4	5-Sep-19	Bragg's Law
<u></u>	5	6-Sep-19	Experimental x-ray diffraction methods of Bragg's Law
<u></u>	6	7-Sep-19	Activity
I	Sunday	8-Sep-19	
I			
9th week	1	9-Sep-19	Experimental x-ray diffraction methods of Bragg's Law
<u> </u>	2	10-Sep-19	Discussion on above these topics
<u> </u>	3	11-Sep-19	K-space
	4	12-Sep-19	Numerical problems of unit 2
	5	13-Sep-19	Numerical problems of unit 2
1	6	14-Sep-19	Activity
<u> </u>	Sunday	15-Sep-19	
<u> </u>			
10th week	1	16-Sep-19	Assignment related to last 5 years questions of unit 1
1	2	17-Sep-19	Discussion problems Unit 2
<u> </u>	3	18-Sep-19	Reciprocal lattice
1	4	19-Sep-19	Physical significance of reciprocal lattice
1	5	20-Sep-19	Reciprocal lattice vectors
	6	21-Sep-19	Activity
	Sunday	22-Sep-19	
11th week	1	23-Sep-19	Holiday
	2	24-Sep-19	Reciprocal lattice vectors
	3	25-Sep-19	Reciprocal lattice to a simple cubic lattice
	4	26-Sep-19	Reciprocal lattice to a simple cubic lattice
	5	27-Sep-19	B.c.c.
	6	28-Sep-19	Activity
	Sunday	29-Sep-19	
12th week	1	30-Sep-19	F.c.c.
	2	1-Oct-19	Discuss problems on above topics
	3	2-Oct-19	Holiday
	4	3-Oct-19	What is Specific heat?
	5	4-Oct-19	Specific heat of solids
		4-Oct-19 5-Oct-19	Specific heat of solids Activity
	5		
	5	5-Oct-19	
13th week	5	5-Oct-19	

	3	9-Oct-19	Einstein's theory of specific heat
	4	10-Oct-19	Class test of unit 2
	5	11-Oct-19	Marks discussion of unit 2
	6	12-Oct-19	Activity
	Sunday	13-Oct-19	
14th week	1	14-Oct-19	Debye model of specific heat of solids
	2	15-Oct-19	Debye model of specific heat of solids
	3	16-Oct-19	Numerical problems of unit 3
	4	17-Oct-19	Holiday
	5	18-Oct-19	Numerical problems of unit 3
	6	19-Oct-19	Activity
	Sunday	20-Oct-19	
15th week	1	21-Oct-19	Discussion problems Unit 3
	2	22-Oct-19	Discussion problems Unit 3
	3	23-Oct-19	Revision of unit 3
	4	24-Oct-19	Vacations
	5	25-Oct-19	
	6	26-Oct-19	
	Sunday	27-Oct-19	
16th week	1	28-Oct-19	Vacations
	2	29-Oct-19	
	3	30-Oct-19	
	4	31-Oct-19	Class test of unit 3
	5	1-Nov-19	Holiday
	6	2-Nov-19	Activity
	Sunday	3-Nov-19	
17th week	1	4-Nov-19	Revision of unit 3
	2	5-Nov-19	Revision of unit 3
	3	6-Nov-19	Revision of unit 3
	4	7-Nov-19	Combine class test of unit1,2 and 3
	5	8-Nov-19	Discussion related to marks of class test of unit 1,2 and 3
	6	9-Nov-19	
	Sunday	10-Nov-19	