

## BSC-I 2<sup>nd</sup> Sem Lesson Plan 2017-2018

**Name of Associate Prof : Ms.Anupma Garg**

**Subject : Maths : BA/BC-1 , Ordinary differential equations sem-2 Paper-2**

**January 2018**

Week 1

Day 1	01.01.2018	Introduction of differential equation
Day 2	02.01.2018	Geometrical meaning of a differential equation
Day 3	03.01.2018	Exact differential equations
Day 4	04.01.2018	Exact differential equations
Day 5	05.01.2018	Holiday
Day 6	06.01.2018	Exact differential equations, integrating factors

Week 2

Day 1	08.01.2018	Exact differential equations, integrating factors
Day 2	09.01.2018	Doubts
Day 3	10.01.2018	Doubts
Day 4	11.01.2018	First order higher degree equations solvable for x,y,p Lagrange's equations,
Day 5	12.01.2018	First order higher degree equations solvable for x,y,p Lagrange's equations,
Day 6	13.01.2018	First order higher degree equations solvable for x,y,p Lagrange's equations,

Week 3

Day 1	15.01.2018	First order higher degree equations solvable for x,y,p Lagrange's equations,
Day 2	16.01.2018	Clairaut's equations, Equation reducible to Clairaut's form
Day 3	17.01.2018	Singular solutions
Day 4	18.01.2018	Singular solutions
Day 5	19.01.2018	Doubts
Day 6	20.01.2018	Doubts

Week 4

Day 1	22.01.2018	Holiday
Day 2	23.01.2018	Doubts
Day 3	24.01.2018	Orthogonal trajectories: in Cartesian coordinates and polar coordinates
Day 4	25.01.2018	Orthogonal trajectories: in Cartesian coordinates and polar coordinates
Day 5	26.01.2018	Holiday
Day 6	27.01.2018	Doubts

Week 5

Day 1	29.01.2018	Linear differential equations with constant coefficients
Day 2	30.01.2018	Linear differential equations with constant coefficients
Day 3	31.01.2018	Holiday

**February 2018**

Week 1

Day 1	01.02.2018	Linear differential equations with constant coefficients
Day 2	02.02.2018	Linear differential equations with constant coefficients
Day 3	03.02.2018	Linear differential equations with constant coefficients

Week 2

Day 1	05.02.2018	Doubts
Day 2	06.02.2018	Doubts
Day 3	07.02.2018	Doubts
Day 4	08.02.2018	Homogeneous linear ordinary differential equations. Equations reducible to homogeneous
Day 5	09.02.2018	Homogeneous linear ordinary differential equations. Equations reducible to homogeneous
Day 6	10.02.2018	Holiday

Week 3

Day 1	12.02.2018	Holiday
Day 2	13.02.2018	Holiday
Day 3	14.02.2018	Doubts
Day 4	15.02.2018	Doubts
Day 5	16.02.2018	Conditional test
Day 6	17.02.2018	Linear differential equations of second order

Week 4

Day 1	19.02.2018	Linear differential equations of second order
Day 2	20.02.2018	Linear differential equations of second order
Day 3	21.02.2018	Linear differential equations of second order
Day 4	22.02.2018	Reduction to normal form
Day 5	23.02.2018	Reduction to normal form
Day 6	24.02.2018	Transformation of the equation by changing the dependent variable/ the independent variable

Week 5

Day 1	26.02.2018	Solution by operators of non-homogeneous linear differential equation
Day 2	27.02.2018	Solution by

		operators of non-homogeneous linear differential equation
Day 3	28.02.2018	Holidays (28 to 04.03.2018)

### **March 2018**

#### Week 1

Day 1	05.03.2018	Reduction of order of a differential equation
Day 2	06.03.2018	Reduction of order of a differential equation
Day 3	07.03.2018	Method of variations of parameters
Day 4	08.03.2018	Method of variations of parameters
Day 5	09.03.2018	Method of variations of parameters
Day 6	10.03.2018	Method of undetermined coefficients

#### Week 2

Day 1	12.03.2018	Method of undetermined coefficients
Day 2	13.03.2018	Doubts
Day 3	14.03.2018	Doubts
Day 4	15.03.2018	Doubts
Day 5	16.03.2018	Conditional test
Day 6	17.03.2018	Conditional test

#### Week 3

Day 1	19.03.2018	Ordinary simultaneous differential equations. Solution of simultaneous differential equations involving operators $x (d/dx)$ or $t (d/dt)$ etc
Day 2	20.03.2018	Ordinary simultaneous differential equations. Solution of simultaneous differential equations involving operators $x (d/dx)$ or $t (d/dt)$ etc
Day 3	21.03.2018	Simultaneous equation of the form $dx/P = dy/Q = dz/R$
Day 4	22.03.2018	Simultaneous equation of the form $dx/P = dy/Q = dz/R$
Day 5	23.03.2018	Holiday (ShahidiDiwas)
Day 6	24.03.2018	Total differential equations

#### Week 4

Day 1	26.03.2018	Total differential equations
Day 2	27.03.2018	Total differential equations
Day 3	28.03.2018	Total differential equations
Day 4	29.03.2018	Holiday (MahaveerJayanti)
Day 5	30.03.2018	Doubts
Day 6	31.03.2018	Doubts

**April 2018**

## Week 1

Day 1	02.04.2018	Condition for $Pdx + Qdy + Rdz = 0$ to be exact
Day 2	03.04.2018	Condition for $Pdx + Qdy + Rdz = 0$ to be exact
Day 3	04.04.2018	General method of solving $Pdx + Qdy + Rdz = 0$ by taking one variable constant..
Day 4	05.04.2018	General method of solving $Pdx + Qdy + Rdz = 0$ by taking one variable constant.
Day 5	06.04.2018	Method of auxiliary equations
Day 6	07.04.2018	Method of auxiliary equations

## Week 2

Day 1	09.04.2018	Method of auxiliary equations
Day 2	10.04.2018	doubts
Day 3	11.04.2018	doubts
Day 4	12.04.2018	TEST
Day 5	13.04.2018	TEST
Day 6	14.04.2018	Holiday (Baisakhi)

## BA/Bsc sem-2 paper-1(Session 2017-18)

### NUMBER THEORY

Name : MS.Rimpi Kohli

#### January 2018

##### Week 1

Day 1	01.01.2018	Divisibility
Day 2	02.01.2018	Do
Day 3	03.01.2018	G.C.D.(greatest common divisors)
Day 4	04.01.2018	L.C.M.(least common multiple)
Day 5	05.01.2018	Holiday
Day 6	06.01.2018	Primes

##### Week 2

Day 1	08.01.2018	Fundamental Theorem of Arithmetic
Day 2	09.01.2018	Linear Congruences
Day 3	10.01.2018	Fermat's theorem
Day 4	11.01.2018	Wilson's theorem and its converse
Day 5	12.01.2018	Linear Diophantine equations in two variables
Day 6	13.01.2018	Do

##### Week 3

Day 1	15.01.2018	Revision of above topics
Day 2	16.01.2018	Class test
Day 3	17.01.2018	Complete residue system and residue system modulo $m$
Day 4	18.01.2018	Do
Day 5	19.01.2018	Do
Day 6	20.01.2018	Euler $\phi$ function

##### Week 4

Day 1	22.01.2018	Holiday
Day 2	23.01.2018	Euler's generalization of Fermat's theorem
Day 3	24.01.2018	do
Day 4	25.01.2018	Chinese Remainder Theorem
Day 5	26.01.2018	Holiday
Day 6	27.01.2018	Doubt session

##### Week 5

Day 1	29.01.2018	Quadratic
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		residues
Day 2	30.01.2018	do
Day 3	31.01.2018	Holiday

## February 2018

### Week 1

Day 1	01.02.2018	Legendre symbols
Day 2	02.02.2018	Lemma of Gauss
Day 3	03.02.2018	Lemma of Gauss

### Week 2

Day 1	05.02.2018	Gauss reciprocity law
Day 2	06.02.2018	Gauss reciprocity law
Day 3	07.02.2018	Greatest integer function $[x]$
Day 4	08.02.2018	Greatest integer function $[x]$
Day 5	09.02.2018	Revision
Day 6	10.02.2018	Holiday

### Week 3

Day 1	12.02.2018	holiday
Day 2	13.02.2018	holiday
Day 3	14.02.2018	Conditional-1
Day 4	15.02.2018	The number of divisors and the sum of divisors of a natural number $n$ (The functions $d(n)$ and $\sigma(n)$ )
Day 5	16.02.2018	The number of divisors and the sum of divisors of a natural number $n$ (The functions $d(n)$ and $\sigma(n)$ )
Day 6	17.02.2018	The number of divisors and the sum of divisors of a natural number $n$ (The functions $d(n)$ and $\sigma(n)$ )

### Week 4

Day 1	19.02.2018	Moebius function and Moebius inversion formula
Day 2	20.02.2018	Moebius function and Moebius inversion formula
Day 3	21.02.2018	Doubts
Day 4	22.02.2018	De Moivre's Theorem and its Applications.
Day 5	23.02.2018	De Moivre's Theorem and its Applications.
Day 6	24.02.2018	De Moivre's Theorem and its Applications.

### Week 5

Day 1	26.02.2018	Revision of d' Moivre's theorem
Day 2	27.02.2018	Expansion of trigonometrical functions
Day 3	28.02.2018	Holidays (28 to 04.03.2018)

**March 2018**

## Week 1

Day 1	05.03.2018	Expansion of trigonometrical functions
Day 2	06.03.2018	Expansion of trigonometrical functions
Day 3	07.03.2018	Expansion of trigonometrical functions
Day 4	08.03.2018	Holiday
Day 5	09.03.2018	Direct circular and hyperbolic functions and their properties
Day 6	10.03.2018	Direct circular and hyperbolic functions and their properties

## Week 2

Day 1	12.03.2018	Direct circular and hyperbolic functions and their properties
Day 2	13.03.2018	Direct circular and hyperbolic functions and their properties
Day 3	14.03.2018	Direct circular and hyperbolic functions and their properties
Day 4	15.03.2018	Revision and doubts
Day 5	16.03.2018	Inverse circular and hyperbolic functions and their properties
Day 6	17.03.2018	Inverse circular and hyperbolic functions and their properties

## Week 3

Day 1	19.03.2018	Conditional-2
Day 2	20.03.2018	Logarithm of a complex quantity. Gregory's series
Day 3	21.03.2018	Logarithm of a complex quantity. Gregory's series
Day 4	22.03.2018	Logarithm of a complex quantity. Gregory's series
Day 5	23.03.2018	Holiday (ShahidiDiwas)
Day 6	24.03.2018	Logarithm of a complex quantity. Gregory's series

## Week 4

Day 1	26.03.2018	Gregory's series
Day 2	27.03.2018	Gregory's series
Day 3	28.03.2018	Class test of inverse functions
Day 4	29.03.2018	Holiday (MahaveerJayanti)
Day 5	30.03.2018	Summation of Trigonometry series
Day 6	31.03.2018	Summation of Trigonometry series

**April 2018**

## Week 1

Day 1	02.04.2018	Class assignments
Day 2	03.04.2018	Revision of section-1
Day 3	04.04.2018	Revision of section-1
Day 4	05.04.2018	Revision of section-2
Day 5	06.04.2018	do
Day 6	07.04.2018	do

## Week 2

Day 1	09.04.2018	Revision of section-3
Day 2	10.04.2018	do
Day 3	11.04.2018	Revision of section-4
Day 4	12.04.2018	do
Day 5	13.04.2018	Full syllabus class test
Day 6	14.04.2018	Holiday (Baisakhi)

## Subject : Math Paper-III

### January 2018 Vector Calculus

#### Week 1

Day 1	01.01.2018	Scalar and vector product of three vectors
Day 2	02.01.2018	Scalar and vector product of three vectors
Day 3	03.01.2018	product of four vectors
Day 4	04.01.2018	product of four vectors
Day 5	05.01.2018	Holiday
Day 6	06.01.2018	Reciprocal vectors

#### Week 2

Day 1	08.01.2018	Reciprocal vectors
Day 2	09.01.2018	TEST
Day 3	10.01.2018	Vector differentiation Scalar Valued point functions, vector valued point functions
Day 4	11.01.2018	Vector differentiation Scalar Valued point functions, vector valued point functions
Day 5	12.01.2018	Vector differentiation Scalar Valued point functions, vector valued point functions
Day 6	13.01.2018	TEST

#### Week 3

Day 1	15.01.2018	derivative along a curve, directional derivatives
Day 2	16.01.2018	derivative along a curve, directional derivatives
Day 3	17.01.2018	derivative along a curve, directional derivatives
Day 4	18.01.2018	TEST
Day 5	19.01.2018	Gradient of a scalar point function, geometrical interpretation of $\text{grad } \Phi$
Day 6	20.01.2018	Gradient of a scalar point function, geometrical interpretation of $\text{grad } \Phi$

#### Week 4

Day 1	22.01.2018	Holiday
Day 2	23.01.2018	character of gradient as a point function. Divergence and curl of vector point function
Day 3	24.01.2018	character of

		gradient as a point function. Divergence and curl of vector point function
Day 4	25.01.2018	character of gradient as a point function. Divergence and curl of vector point function
Day 5	26.01.2018	Holiday
Day 6	27.01.2018	Test

Week 5

Day 1	29.01.2018	characters of Div $f$ . and Curl $f$ . as point function, examples
Day 2	30.01.2018	characters of Div $f$ . and Curl $f$ . as point function, examples
Day 3	31.01.2018	Holiday

**February 2018**

Week 1

Day 1	01.02.2018	characters of Div $f$ . and Curl $f$ . as point function, examples
Day 2	02.02.2018	characters of Div $f$ . and Curl $f$ . as point function, examples
Day 3	03.02.2018	Test

Week 2

Day 1	05.02.2018	Gradient, divergence and curl of sums and product and their related vector identities. Laplacian operator.
Day 2	06.02.2018	Gradient, divergence and curl of sums

		and product and their related vector identities. Laplacian operator.
Day 3	07.02.2018	Orthogonal curvilinear coordinates Conditions for orthogonality fundamental triad of mutually orthogonal unit vectors
Day 4	08.02.2018	Orthogonal curvilinear coordinates Conditions for orthogonality fundamental triad of mutually orthogonal unit vectors
Day 5	09.02.2018	Test
Day 6	10.02.2018	Holiday

### Week 3

Day 1	12.02.2018	Holiday
Day 2	13.02.2018	Holiday
Day 3	14.02.2018	Conditional Test-1
Day 4	15.02.2018	Curl and Laplacian operators in terms of orthogonal curvilinear coordinates
Day 5	16.02.2018	Curl and Laplacian operators in terms of orthogonal curvilinear coordinates
Day 6	17.02.2018	Curl and Laplacian operators in terms of orthogonal curvilinear coordinates

### Week 4

Day 1	19.02.2018	Curl and Laplacian operators in terms of orthogonal curvilinear coordinates
Day 2	20.02.2018	Test
Day 3	21.02.2018	Cylindrical co-ordinates and Spherical coordinates
Day 4	22.02.2018	Cylindrical co-ordinates and Spherical coordinates
Day 5	23.02.2018	Cylindrical co-ordinates and Spherical coordinates
Day 6	24.02.2018	Test

### Week 5

Day 1	26.02.2018	Vector integration
Day 2	27.02.2018	Vector integration
Day 3	28.02.2018	Holidays (28 to 04.03.2018)

## **March 2018**

### Week 1

Day 1	05.03.2018	Line integral
Day 2	06.03.2018	Line integral
Day 3	07.03.2018	Line integral
Day 4	08.03.2018	Test
Day 5	09.03.2018	Surface integral
Day 6	10.03.2018	Surface integral

### Week 2

Day 1	12.03.2018	Surface integral
Day 2	13.03.2018	Volume integral
Day 3	14.03.2018	Volume integral
Day 4	15.03.2018	Doubts
Day 5	16.03.2018	Theorems of Gauss
Day 6	17.03.2018	Theorems of Gauss

### Week 3

Day 1	19.03.2018	Theorems of Gauss
Day 2	20.03.2018	Theorems of Gauss
Day 3	21.03.2018	Conditional Test-2
Day 4	22.03.2018	Stokes and problems based on these theorms
Day 5	23.03.2018	Holiday (ShahidiDiwas)
Day 6	24.03.2018	Stokes and problems based on these theorms

### Week 4

Day 1	26.03.2018	Stokes and problems based on these theorms
Day 2	27.03.2018	Stokes and problems based on these theorms
Day 3	28.03.2018	Stokes and problems based on these theorms
Day 4	29.03.2018	Holiday (MahaveerJayanti)
Day 5	30.03.2018	Conditional assignment
Day 6	31.03.2018	Doubts of section-1

## **April 2018**

### Week 1

Day 1	02.04.2018	Test
Day 2	03.04.2018	Revision of section -2
Day 3	04.04.2018	Doubts
Day 4	05.04.2018	Test of section-2
Day 5	06.04.2018	Revision of section-3
Day 6	07.04.2018	Doubts

### Week 2

Day 1	09.04.2018	Test
Day 2	10.04.2018	Revision of section-3
Day 3	11.04.2018	Doubts
Day 4	12.04.2018	Test
Day 5	13.04.2018	Full syllabus Test
Day 6	14.04.2018	Holiday (Baisakhi)

**Subject :Physics-PH- 201 Paper –III: Properties of Matter and Kinetic Theory of Gases**

**Name of Associate Prof: Ms.Monika Khurana**

No.	Days/ Dates	Topic
<b>January</b>		
<b>Week 1</b>		
1	Day 1 04/01/2018	<b>Unit I: Moment of inertia</b> Rotation of rigid body, Moment of inertial, Torque, angular momentum
2	Day 2 05/01/2018	Kinetic Energy of rotation
3	Day 3 06/01/2018	Theorem of perpendicular and parallel axes (with proof),
<b>Week 2</b>		
4	Day 1 11/01/2018	Moment of inertia of solid sphere, hollow sphere, spherical shell,
5	Day 2 12/01/2018	Moment of inertia solid cylinder, hollow cylinder and solid bar of rectangular cross-section,
6	Day 3 13/01/2018	Fly wheel, Moment of inertia of an irregular body,
<b>Week 3</b>		
7	Day 1 18/01/2018	Acceleration of a body rolling down on an inclined plane.
8	Day 2 19/01/2018	Conceptual problems, Numericals
9	<b>Day 3</b> 20/01/2018	Test of unit I
<b>Week 4</b>		
10	Day 1 25/01/2018	<b>Unit 2: Elasticity</b> Elasticity, Stress and Strain, Hook' s law,
11	Day 2 26/01/2018	Holiday
12	Day 3 27/01/2018	Elastic constant and their relations, Poisson' s ratio,
<b>February</b>		
<b>Week 1</b>		
13	Day 1	Torsion of cylinder and twisting couple,

	01/02/2018	
14	Day 2 02/02/2018	Determination of coefficient of modulus of rigidity for the material of wire by Maxwell's needle
15	Day 3 03/02/2018	Bending of beam (Bending moment and its magnitude),
<b>Week 2</b>		
16	Day 1 08/02/2018	Determination of Young modulus for the material of the beam and Elastic constants for the material of the wire by Searle method
17	Day 2 09/02/2018	Determination of Young' modulus the material of the beam and Elastic constants for the material of the wire by Searles method.
18	Day 3 10/02/2018	Holiday
<b>Week 3</b>		
19	Day 1 15/02/2018	Conceptual problems, Numericals
20	Day 2 16/02/2018	Assignments
21	Day 3 17/02/2018	Conditional test
<b>Week 4</b>		
22	Day 1 22/02/2018	<b>Unit 3: Kinetic theory of gases-I</b> Introduction
23	Day 2 23/02/2018	Assumption of Kinetic theory of gases, pressure of an ideal gas (with derivation)
24	Day 3 24/02/2018	pressure of an ideal gas (with derivation) contd.
<b>March</b>		
<b>Week 1</b>		
25	Day 1 01/03/2018	Holiday
26	Day 2 02/03/2018	Holiday
27	Day 3 03/03/2018	Holiday
<b>Week 2</b>		
28	Day 1 08/03/2018	Kinetic interpretation of Temperature, Ideal Gas equation
29	Day 2 09/03/2018	Degree of freedom, Law of equipartition of energy and its application for specific heat of gases,
30	Day 3 10/03/2018	Real gases, Vanderwall's equation, Vanderwall's equation, contd. Brownian motion( Qualitative)
<b>Week 3</b>		
31	Day 1 15/03/2018	Conceptual problems, Numericals
32	Day 2 16/03/2018	Difficulties
33	Day 3 17/03/2018	Conditional test
<b>Week 4</b>		
34	Day 1	<b>Unit 4: Kinetic theory of gases-II</b>

	22/03/2018	Maxwell' s distribution of speed and velocities (derivation required)
35	Day 2 23/03/2018	Holiday
36	Day 3 24/03/2018	Experimental verification of Maxwells law of speed distribution:
<b>Week 5</b>		
37	Day 1 29/03/2018	Holiday
38	Day 2 30/03/2018	most probable speed, average and r.m.s. speed, Mean free path, Transport of energy
39	Day 3 31/03/2018	Transport of momentum and Mass
<b>April</b>		
<b>Week 1</b>		
40	Day 1 02/04/2018	Conceptual problems, Numericals
41	Day 2 03/04/2018	, Numericals
42	Day 3 04/04/2018	Test of unit IV
<b>Week 2</b>		
43	Day 1 09/04/2018	Revision
44	Day 2 10/04/2018	Revision of questions of univ. sample paper
45	Day 3 11/04/2018	Revision of questions of univ. sample paper

**Subject : Physics-PH-202 ,Paper – IV: Semiconductor Devices**

Name of Associate Prof: Ms.Veenu

S. No.	Days/ Dates	Topic
<b>January</b>		
<b>Week 1</b>		
1	Day 1 01/01/2018	<b>Unit I: Semiconductors</b> Energy bands in solids, Intrinsic and extrinsic semiconductors, ,
2	Day 2 02/01/2018	carrier mobility and electrical resistivity of semiconductors, Hall effect,
3	Day 3 03/01/2018	p-n junction diode and their characteristics
<b>Week 2</b>		
4	Day 1 08/01/2018	Zener and Avalanche breakdown, Zener diode, Zener diode as a voltage regulator.
5	Day 2 09/01/2018	Light emitting diodes (LED), Photoconduction in semiconductors, Photodiode,
6	Day 3 10/01/2018	Solar Cell, p-n junction as a rectifier
<b>Week 3</b>		
7	Day 1 15/01/2018	half wave and full wave rectifiers (with derivation),
8	Day 2 16/01/2018	filters (series inductor, shunt capacitance,
9	<b>Day 3</b> 17/01/2018	L-section or choke, $\pi$ and R.C. filter circuits).
<b>Week 4</b>		
10	Day 1 22/01/2018	Vasant Panchami
11	Day 2 23/01/2018	Test of Unit I
12	Day 3 24/01/2018	Sir Chotu Ram Jayanti
<b>Week 5</b>		
13	Day 1 29/01/2018	<b>Unit 2: Transistors</b> Junction transistors, Working of NPN transistors,

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14	Day 2 30/01/2018	Working of PNP transistors
15	Day 3 31/01/2018	Guru Ravidas Jayanti
<b>February</b>		
<b>Week 1</b>		
16	Day 1 05/02/2018	Three configurations of transistor (C-B, C-E, C-C modes), Common base,
17	Day 2 06/02/2018	common emitter and common collector characteristics of transistor(C-B, C-E, C-C modes),
18	Day 3 07/02/2018	Constants of a transistor and their relation,
<b>Week 2</b>		
19	Day 1 12/02/2018	Advantages and disadvantages of C-E configuration. D.C. load line
20	Day 2 13/02/2018	Maha Shivratri
21	Day 3 14/02/2018	Transistor biasing; various methods of transistor biasing and stabilization
<b>Week 3</b>		
22	Day 1 19/02/2018	Conceptual and Numerical Problems
23	Day 2 20/02/2018	Conditional Test
24	Day 3 21/02/2018	<b>Unit 3: Transistor Amplifiers</b> Amplifiers, Classification of amplifiers,
<b>Week 4</b>		
25	Day 1 26/02/2018	common base and common emitter amplifiers, coupling of amplifiers,
26	Day 2 27/02/2018	Assignment
27	Day 3 28/02/2018	Holiday
<b>March</b>		
<b>Week 1</b>		
28	Day 1 05/03/2018	various methods of coupling, Resistance- Capacitance (RC)
29	Day 2 06/03/2018	coupled amplifier (two stage, concept of band width, no derivation),
30	Day 3 07/03/2018	Feedback in amplifiers, advantages of negative feedback,
<b>Week 2</b>		
31	Day 1 12/03/2018	emitter follower, distortion in amplifiers.
32	Day 2 13/03/2018	Difficulties and Conceptual Problems
33	Day 3 14/03/2018	Numericals

<b>Week 3</b>		
34	Day 1 19/03/2018	Conditional Test
35	Day 2 20/03/2018	<b>Unit 4: Oscillators</b> Oscillators, Principle of oscillation,
36	Day 3 21/03/2018	classification of oscillators,
<b>Week 4</b>		
37	Day 1 26/03/2018	Condition for self sustained oscillation: Barkhausen criterion for oscillation,
38	Day 2 27/03/2018	Tuned collector common emitter oscillator,
39	Day 3 28/03/2018	Hartley oscillator (Principle and Working).
<b>April</b>		
<b>Week 1</b>		
40	Day 1 02/04/2018	C.R.O. (Principle and Working).
41	Day 2 03/04/2018	Difficulties
42	Day 3 04/04/2018	Conceptual Problems and Numericals
<b>Week 2</b>		
43	Day 1 09/04/2018	Test of Unit IV
44	Day 2 10/04/2018	Revision of University Question Papers
45	Day 3 11/04/2018	Revision of University Question Papers

## Subject : Computer Science Paper-I Programming in C

Name of Assistant Prof/Associate Prof:

S. No.	Days/ Dates	Topic
<b>January</b>		
<b>Week 1</b>		
1	Day 1 01/01/2018	Overview of C: History & Importance of C Structure of a C Program
2	Day 2 02/01/2018	Elements of C: C character set, identifiers and keywords Data types, Constants and Variables, Assignment statement, Symbolic constant.
3	Day 3 03/01/2018	Input/output: Unformatted & formatted I/O function
<b>Week 2</b>		
4	Day 1 08/01/2018	Input functions: scanf(), getch(),getche(), getchar(), gets()
5	Day 2 09/01/2018	Output functions: printf(), putchar(), puts()).
6	Day 3 10/01/2018	Revision and test
<b>Week 3</b>		
7	Day 1 15/01/2018	Operators: Arithmetic, relational, logical, bitwise, unary, assignment
8	Day 2 16/01/2018	Operators: conditional operators and special operators
9	<b>Day 3</b> 17/01/2018	Cross word
<b>Week 4</b>		
10	Day 1 22/01/2018	Holiday (Vasant Panchami)
11	Day 2 23/01/2018	Expression: Arithmetic expressions, evaluation of arithmeticexpression,
12	Day 3 24/01/2018	Holiday (Sir Chotu Ram Jayanti)
<b>Week 5</b>		
13	Day 1 29/01/2018	Written Test

14	Day 2 30/01/2018	Type casting and conversion, Operator hierarchy & associativity.
15	Day 3 31/01/2018	Guru Ravidas Jayanti
<b>February</b>		
<b>Week 1</b>		
16	Day 1 05/02/2018	Decision making & branching: Decision making with IF statement
17	Day 2 06/02/2018	IF-ELSE statement,
18	Day 3 07/02/2018	Nested IF statement ELSE-IF ladder
<b>Week 2</b>		
19	Day 1 12/02/2018	switch statement, goto statement
20	Day 2 13/02/2018	Holiday (Maha Shivratri)
21	Day 3 14/02/2018	Decision making & looping: For Loop
<b>Week 3</b>		
22	Day 1 19/02/2018	Difference between For and While Loop
23	Day 2 20/02/2018	while, and do-while loop Difference between While Loop and Do-While Loop
24	Day 3 21/02/2018	Jumps in loops, break, continue Statement.
<b>Week 4</b>		
25	Day 1 26/02/2018	Functions: Definition, prototype
26	Day 2 27/02/2018	Functions: Definition, prototype
27	Day 3 28/02/2018	Holiday
<b>March</b>		
<b>Week 1</b>		
28	Day 1 05/03/2018	passing parameters, recursion
29	Day 2 06/03/2018	passing parameters, recursion
30	Day 3 07/03/2018	Test of all Functions
<b>Week 2</b>		
31	Day 1 12/03/2018	Storage classes in C: auto, extern
32	Day 2 13/03/2018	register and static storage class
33	Day 3 14/03/2018	register and static storage class
<b>Week 3</b>		
34	Day 1 19/03/2018	their scope, storage, & lifetime
35	Day 2	Written test of Storage Classes

	20/03/2018	
36	Day 3 21/03/2018	Arrays: Definition
<b>Week 4</b>		
37	Day 1 26/03/2018	Types of Arrays
38	Day 2 27/03/2018	Initialization of array
39	Day 3 28/03/2018	Processing an array
<b>April</b>		
<b>Week 1</b>		
40	Day 1 02/04/2018	Structures
41	Day 2 03/04/2018	Structures
42	Day 3 04/04/2018	Unit III Test
<b>Week 2</b>		
43	Day 1 09/04/2018	Union
44	Day 2 10/04/2018	Difference between Structures and Union
45	Day 3 11/04/2018	Test

**Subject : Computer Science Paper II - Logical Organization of Computers**

Name of Assistant Prof /Associate Prof:

<b>S. No.</b>	<b>Days/ Dates</b>	<b>Topic</b>
<b>January</b>		
<b>Week 1</b>		
<b>1</b>	Day 1 04/01/2018	Information Representation: Number Systems
<b>2</b>	Day 2 05/01/2018	Number Systems
<b>3</b>	Day 3 06/01/2018	Binary Arithmetic
<b>Week 2</b>		
<b>4</b>	Day 1 11/01/2018	Fixed-point and Floating point representation of numbers,
<b>5</b>	Day 2 12/01/2018	Fixed-point and Floatingpoint representation of numbers,
<b>6</b>	Day 3 13/01/2018	Revision of above syllabus
<b>Week 3</b>		
<b>7</b>	Day 1 18/01/2018	BCD Codes
<b>8</b>	Day 2 19/01/2018	Error detecting and correcting codes,
<b>9</b>	<b>Day 3</b> 20/01/2018	Error detecting and correcting codes,
<b>Week 4</b>		
<b>10</b>	Day 1 25/01/2018	Character Representation – ASCII
<b>11</b>	Day 2 26/01/2018	Holiday (Republic Day)
<b>12</b>	Day 3 27/01/2018	Character Representation – EBCDIC.
<b>February</b>		

<b>Week 1</b>		
13	Day 1 01/02/2018	Binary Logic: Boolean Algebra, Boolean Theorems,
14	Day 2 02/02/2018	Binary Logic: Boolean Algebra, Boolean Theorems,
15	Day 3 03/02/2018	Boolean Functions and Truth Tables
<b>Week 2</b>		
16	Day 1 08/02/2018	Conditional Test
17	Day 2 09/02/2018	Canonical and Standard forms of Boolean functions
18	Day 3 10/02/2018	Holiday
<b>Week 3</b>		
19	Day 1 15/02/2018	Simplification of Boolean Functions – Venn Diagram
20	Day 2 16/02/2018	Simplification of Boolean Functions – Venn Diagram
21	Day 3 17/02/2018	Karnaugh Maps
<b>Week 4</b>		
22	Day 1 22/02/2018	Karnaugh Maps
23	Day 2 23/02/2018	Digital Logic: Basic Gates – AND, OR, NOT
24	Day 3 24/02/2018	Universal Gates – NAND, NOR
<b>March</b>		
<b>Week 1</b>		
25	Day 1 01/03/2018	Holiday
26	Day 2 02/03/2018	Holiday(Holi)
27	Day 3 03/03/2018	Holiday
<b>Week 2</b>		
28	Day 1 08/03/2018	Universal Gates – NAND, NOR Other Gates – XOR, XNOR etc
29	Day 2 09/03/2018	Combinational Circuits: Half-Adder , Full-Adder
30	Day 3 10/03/2018	Test of Unit I & II
<b>Week 3</b>		
31	Day 1 15/03/2018	Half- Subtractor
32	Day 2 16/03/2018	Full-Subtractor
33	Day 3 17/03/2018	Encoders , Decoders

<b>Week 4</b>		
34	Day 1 22/03/2018	Multiplexers
35	Day 2 23/03/2018	Holiday
36	Day 3 24/03/2018	Demultiplexers, Comparators, Code Converters
<b>Week 5</b>		
37	Day 1 29/03/2018	Holiday
38	Day 2 30/03/2018	Conditional Test
39	Day 3 31/03/2018	Sequential Logic: Characteristics, Flip-Flops
<b>April</b>		
<b>Week 1</b>		
40	Day 1 02/04/2018	Clocked RS, D type
41	Day 2 03/04/2018	JK, T type and Master- Slave flip-flops. State table, state diagram. Flip-flop excitation tables
42	Day 3 04/04/2018	Shift registers : serial in parallel out and parallel in parallel out..
<b>Week 2</b>		
43	Day 1 09/04/2018	Designing counters – Asynchronous and Synchronous Binary Counters
44	Day 2 10/04/2018	Modulo-N Counters and Up-Down Counters
45	Day 3 11/04/2018	Class Activity

**Subject : Chemistry (Paper-I ,III)**

Name of Associate Prof : Dr.Geeta Sharma

S. No.	Days/ Dates	Topic
<b>January</b>		
<b>Week 1</b>		
1	Day 1 04/01/2018	Nomenclature of alkenes, mechanisms of dehydration of alcohols
2	Day 2 05/01/2018	and dehydrohalogenation of alkyl halide. The Saytzeff rule, Hofmann elimination
3	Day 3 06/01/2018	, physical properties and relative stabilities of alkenes. Chemical reactions of alkenes□mechanisms involved in hydrogenation
<b>Week 2</b>		
4	Day 1 11/01/2018	electrophilic and free radical additions, Markownikoff's rule, hydroboration–oxidation, oxymercurationreduction,
5	Day 2 12/01/2018	ozonolysis, hydration,
6	Day 3 13/01/2018	hydroxylation and oxidation with KMnO <sub>4</sub> . Difficulties of chapter to be discussed
<b>Week 3</b>		
7	Day 1 18/01/2018	Class test of above chapter
8	Day 2 19/01/2018	<b>Arenes and Aromaticity</b> Nomenclature of benzene derivatives: Aromatic nucleus and side chain.  Aromaticity: the Huckel rule, aromatic ions, annulenes up to 10 carbon atoms
9	<b>Day 3</b> 20/01/2018	aromatic, anti-aromatic and non-aromatic compounds.

		Aromatic electrophilic substitution □ general pattern of the mechanism
<b>Week 4</b>		
10	Day 1 25/01/2018	Vasant Panchami
11	Day 2 26/01/2018	mechanism of nitration, halogenation, sulphonation, and Friedel-Crafts reaction.
12	Day 3 27/01/2018	Sir Chotu Ram Jayanti
<b>February</b>		
<b>Week 1</b>		
13	Day 1 01/02/2018	Energy profile diagrams. Activating , deactivating substituents and orientation.
14	Day 2 02/02/2018	Assignment discussion, difficulties of above chapter
15	Day 3 03/02/2018	Class test
<b>Week 2</b>		
16	Day 1 08/02/2018	<b>Dienes and Alkynes</b> Nomenclature and classification of dienes: isolated, conjugated and cumulated dienes. Structure of butadiene
17	Day 2 09/02/2018	Chemical reactions □ 1,2 and 1,4 additions (Electrophilic & free radical mechanism), Diels-Alder reaction
18	Day 3 10/02/2018	Nomenclature, structure and bonding in alkynes. Methods of formation. Chemical reactions of alkynes
<b>Week 3</b>		
19	Day 1 15/02/2018	Continued above acidity of alkynes.
20	Day 2 16/02/2018	Mechanism of electrophilic and nucleophilic addition reactions, hydroboration-oxidation of alkynes.
21	Day 3 17/02/2018	Conditional test
<b>Week 4</b>		
22	Day 1 22/02/2018	<b>Alkyl and Aryl Halides</b> Nomenclature and classes of alkyl halides, methods of formation, chemical reactions.
23	Day 2 23/02/2018	Mechanisms and stereochemistry of nucleophilic substitution
24	Day 3 24/02/2018	reactions of alkyl halides, S <sub>N</sub> 2 and S <sub>N</sub> 1 reactions with energy profile diagrams
<b>March</b>		
<b>Week 1</b>		
25	Day 1 01/03/2018	
26	Day 2 02/03/2018	

27	Day 3 03/03/2018	
<b>Week 2</b>		
28	Day 1 08/03/2018	Methods of formation and reactions of aryl halides, The addition-elimination-elimination-addition mechanisms of nucleophilic aromatic substitution reactions
29	Day 2 09/03/2018	Relative reactivities of alkyl halides vs allyl, vinyl and aryl halides. Difficulties of above chapter & university pattern qns discussion
30	Day 3 10/03/2018	<b>p-Block elements:</b> Electronic configuration, atomic and ionic size, metallic character, melting point, ionization energy, electron affinity, electronegativity.
<b>Week 3</b>		
31	Day 1 15/03/2018	, inert pair effect and diagonal relationship
32	Day 2 16/03/2018	<b>Boron family ( 13<sup>th</sup> group):</b> Diborane: Preparation, properties and structure ( as an example of electron deficient compound and multicenter bonding),
33	Day 3 17/03/2018	Borazine chemical properties and structure,
<b>Week 4</b>		
34	Day 1 22/03/2018	relative strength of Trihalide of Boron as Lewis acids, structure of aluminium(III) chloride.
35	Day 2 23/03/2018	<b>Carbon family and Nitrogen family ( 14<sup>th</sup> and 15<sup>th</sup> group):</b> Catenation, Carbides,
36	Day 3 24/03/2018	fluoro carbons, silicates (structural aspects).
<b>Week 5</b>		
37	Day 1 29/03/2018	Difficulties of above chapter & quiz
38	Day 2 30/03/2018	Oxides: Structure of oxides of nitrogen and phosphorus,
39	Day 3 31/03/2018	Oxyacids : Structure and relative acid strength of oxy acids of nitrogen and phosphorus,
<b>April</b>		
<b>Week 1</b>		
40	Day 1 02/04/2018	structure of white and Red phosphorus. <b>Oxygen family ( 16<sup>th</sup> group):</b> Oxy acids of sulphur – structure and acidic strength
41	Day 2 03/04/2018	Continued above Hydrogen Peroxide – properties and uses.
42	Day 3	<b>Halogen family ( 17<sup>th</sup> group):</b>

	04/04/2018	Interhalogen compounds (their properties and structures),
<b>Week 2</b>		
43	Day 1 09/04/2018	Hydra and oxy acids of chlorine – structure and comparison of acid strength, cationic nature of Iodine
44	Day 2 10/04/2018	Revision of chapter
45	Day 3 11/04/2018	Class test

**Subject : Chemistry Paper I,II**

S. No.	Days/ Dates	Topic
<b>January</b>		
<b>Week 1</b>		
1	Day 1 01/01/2018	Rate of reaction, rate equation and its types
2	Day 2 02/01/2018	factors influencing the rate of a reaction – concentration, temperature, pressure, solvent, light, catalyst.
3	Day 3 03/01/2018	Order of a reaction, integrated rate expression for zero order, first order, second and third order reactions.
<b>Week 2</b>		
4	Day 1 08/01/2018	Order of a reaction, integrated rate expression for zero order, first order, second and third order reactions.
5	Day 2 09/01/2018	Half life period of a reaction. Effect of temperature on the rate of reaction – Arrhenius equation.
6	Day 3 10/01/2018	Theories of reaction rate – Simple collision theory for unimolecular collision
<b>Week 3</b>		
7	Day 1 15/01/2018	Transition state theory of bimolecular reactions
8	Day 2 16/01/2018	continued
9	<b>Day 3</b> 17/01/2018	Numerical problems
<b>Week 4</b>		
10	Day 1 22/01/2018	Vasant Panchami
11	Day 2 23/01/2018	Class test
12	Day 3 24/01/2018	Sir Chotu Ram Jayanti
<b>Week 5</b>		

13	Day 1 29/01/2018	Electrolytic conduction, factors affecting electrolytic conduction,
14	Day 2 30/01/2018	specific conductance, molar conductance, equivalent conductance and relation among them
15	Day 3 31/01/2018	Guru Ravidas Jayanti
<b>February</b>		
<b>Week 1</b>		
16	Day 1 05/02/2018	, their variation with concentration
17	Day 2 06/02/2018	Arrhenius theory of ionization, Ostwald's Dilution Law.
18	Day 3 07/02/2018	Debye- Huckel – Onsager's equation for strong electrolytes (elementary treatment only),
<b>Week 2</b>		
19	Day 1 12/02/2018	Application of Kohlrausch's Law in calculation of conductance of weak electrolytes at infinite dilution
20	Day 2 13/02/2018	Maha Shivratri
21	Day 3 14/02/2018	. Applications of conductivity measurements: determination of degree of dissociation
<b>Week 3</b>		
22	Day 1 19/02/2018	determination of $K_a$ of acids determination of solubility product of sparingly soluble salts
23	Day 2 20/02/2018	conductometric titration
24	Day 3 21/02/2018	Concepts of pH and $pK_a$ ,
<b>Week 4</b>		
25	Day 1 26/02/2018	Buffer solution, Buffer action, Henderson – Hazel equation
26	Day 2 27/02/2018	Buffer mechanism of buffer action.
27	Day 3 28/02/2018	Holiday
<b>March</b>		
<b>Week 1</b>		
28	Day 1 05/03/2018	contiued
29	Day 2 06/03/2018	Numerical problems
24	Day 3 07/03/2018	Class test
<b>Week 2</b>		
22	Day 1 12/03/2018	Assignment discussion
23	Day 2 13/03/2018	<b>Hydrogen Bonding and Van der Waals forces</b> Hydrogen Bonding – Definition, types, effects of hydrogen bonding on properties of substances,
24	Day 3 14/03/2018	application

<b>Week 3</b>		
22	Day 1 19/03/2018	Brief discussion of various types of Van der Waals forces.
23	Day 2 20/03/2018	<b>Metallic Bond and semiconductors</b> Metallic bond – Qualitative idea of valence bond
24	Day 3 21/03/2018	and Band theories of metallic bond (conductors, semiconductors, insulators).
<b>Week 4</b>		
22	Day 1 26/03/2018	Semiconductors – Introduction, types and applications
23	Day 2 27/03/2018	<b>s-Block elements</b> Comparative study of the elements including diagonal relationship
24	Day 3 28/03/2018	Anomalous behaviour of Lithium and Beryllium compared to other elements in the same group
<b>April</b>		
<b>Week 1</b>		
22	Day 1 02/04/2018	salient features of hydrides, oxides,
23	Day 2 03/04/2018	halides, hydroxides ( methods of preparation excluded),
24	Day 3 04/04/2018	behaviour of solution in liquid NH <sub>3</sub> .
<b>Week 2</b>		
22	Day 1 09/04/2018	<b>Chemistry of Noble Gases</b> General physical properties, low chemical reactivity
23	Day 2 10/04/2018	chemistry of xenon, structure and bonding in fluorides
24	Day 3 11/04/2018	oxides and oxyfluorides of xenon.  Revesion continued

**Subject : Botany Paper Ist - DIVERSITY OF ARCHEGONIATES**

Name of Associate Prof: Dr.Rajni Kapoor

S. No.	Days/ Dates	Topic
<b>January</b>		
<b>Week 1</b>		
1	Day 1 01/01/2018	Bryophyta- General characters
2	Day 2 02/01/2018	Bryophyta- General characters
3	Day 3 03/01/2018	classification (upto classes)
<b>Week 2</b>		
4	Day 1 08/01/2018	classification (upto classes)
5	Day 2 09/01/2018	Test of classification
6	Day 3 10/01/2018	alternation of generations,-MARCHANTIA
<b>Week 3</b>		
7	Day 1 15/01/2018	structure and reproduction (excluding development) of Marchantia (Hepaticopsida)
8	Day 2 16/01/2018	Continued above
9	<b>Day 3</b> 17/01/2018	Continued above

<b>Week 4</b>		
10	Day 1 22/01/2018	Vasant Panchami
11	Day 2 23/01/2018	Anthoceros (Anthocerotopsida)
12	Day 3 24/01/2018	Sir Chotu Ram Jayanti
<b>Week 5</b>		
13	Day 1 29/01/2018	Anthoceros (Anthocerotopsida)
14	Day 2 30/01/2018	Anthoceros (Anthocerotopsida)
15	Day 3 31/01/2018	Guru Ravidas Jayanti
<b>February</b>		
<b>Week 1</b>		
16	Day 1 05/02/2018	Test Marchantia,
17	Day 2 06/02/2018	Test Anthoceros
18	Day 3 07/02/2018	Funaria (Bryopsida).
<b>Week 2</b>		
19	Day 1 12/02/2018	Funaria (Bryopsida).
20	Day 2 13/02/2018	Maha Shivratri
21	Day 3 14/02/2018	Funaria (Bryopsida).
<b>Week 3</b>		
22	Day 1 19/02/2018	Test Funaria
23	Day 2 20/02/2018	Test- general characters of bryophyta
24	Day 3 21/02/2018	Pteridophyta- General characters
<b>Week 4</b>		
25	Day 1 26/02/2018	Pteridophyta- General characters
26	Day 2 27/02/2018	Pteridophyta-

		General characters
27	Day 3 28/02/2018	Holiday
<b>March</b>		
<b>Week 1</b>		
28	Day 1 05/03/2018	classification (upto classes)
29	Day 2 06/03/2018	classification (upto classes)
24	Day 3 07/03/2018	alternation of generations, structure and reproduction of Rhynia (Psilopsida)
<b>Week 2</b>		
22	Day 1 12/03/2018	Test of General characters of pteridophytes
23	Day 2 13/03/2018	Test of classification of pteridophytes
24	Day 3 14/03/2018	alternation of generations, structure and reproduction of Selaginella (Lycopsida)
<b>Week 3</b>		
22	Day 1 19/03/2018	alternation of generations, structure and reproduction of Selaginella (Lycopsida)
23	Day 2 20/03/2018	alternation of generations, structure and reproduction of Selaginella (Lycopsida)
24	Day 3 21/03/2018	Test of alternation of generations, structure and reproduction of Selaginella (Lycopsida)
<b>Week 4</b>		
22	Day 1 26/03/2018	Equisetum -alternation of generations, structure and reproduction
23	Day 2 27/03/2018	Equisetum -alternation of generations, structure and reproduction
24	Day 3 28/03/2018	Equisetum -alternation of generations, structure and reproduction

<b>April</b>		
<b>Week 1</b>		
22	Day 1 02/04/2018	Pteris -alternation of generations, structure and reproduction
23	Day 2 03/04/2018	Pteris -alternation of generations, structure and reproduction
24	Day 3 04/04/2018	Pteris -alternation of generations, structure and reproduction
<b>Week 2</b>		
22	Day 1 09/04/2018	Revision of Bryophytes
23	Day 2 10/04/2018	Revision of Pteridophytes
24	Day 3 11/04/2018	Test of Bryophytes and Pteridophytes

### Subject: Zoology Paper-I (1-3)

S. No.	Days/ Dates	Topic
<b>January</b>		
<b>Week 1</b>		
1	Day 1 01/01/2018	Phylum – Annelida: General characters and classification up to order level
2	Day 2 02/01/2018	Biodiversity and economic importance of Annelida
3	Day 3 03/01/2018	Type study – Pheretima (Earthworm) Habit, Habitat, External Characters, BodyWaal
<b>Week 2</b>		
4	Day 1 08/01/2018	Coelom, Coelomic Fluid, Locomotion
5	Day 2 09/01/2018	Digestive System
6	Day 3 10/01/2018	Circulatory System, Respiratory system
<b>Week 3</b>		
7	Day 1 15/01/2018	Excretory system
8	Day 2 16/01/2018	Nervous System, Sense organ, Reproductive System
9	<b>Day 3</b> 17/01/2018	Reproductive system (Female ), Regeneration
<b>Week 4</b>		
10	Day 1 22/01/2018	<b>Vasant Panchami</b>
11	Day 2 23/01/2018	Metamerism in Annelida
12	Day 3 24/01/2018	<b>Sir Chotu Ram Jayanti</b>
<b>Week 5</b>		
13	Day 1 29/01/2018	Trochophore larva

14	Day 2 30/01/2018	Phylum – Arthropoda : General characters and classification up to order level
15	Day 3 31/01/2018	<b>Guru Ravidas Jayanti</b>
<b>February</b>		
<b>Week 1</b>		
16	Day 1 05/02/2018	Biodiversity and economic importance of insects
17	Day 2 06/02/2018	Type study – Grasshopper Habit, Habitat, External Characters
18	Day 3 07/02/2018	External Characters, Body Wall, Body Cavity,
<b>Week 2</b>		
19	Day 1 12/02/2018	Digestive System, Respiratory System
20	Day 2 13/02/2018	<b>Maha Shivratri</b>
21	Day 3 14/02/2018	Circulatory System, Excretory system
<b>Week 3</b>		
22	Day 1 19/02/2018	Nervous System, Sense organ
23	Day 2 20/02/2018	Reproductive system & Life CycleS
24	Day 3 21/02/2018	Elements of Heredity and variations: Some early View of Heredity, Mendel’s Experiment
<b>Week 4</b>		
25	Day 1 26/02/2018	Terms used in inheritance studies, Results of Mendel’s experiments
26	Day 2 27/02/2018	Interpretation of Mendel’s result
27	Day 3 28/02/2018	<b>Holiday</b>
<b>March</b>		
<b>Week 1</b>		
28	Day 1 05/03/2018	Test cross, Principle of independent assortment
29	Day 2 06/03/2018	Importance of Mendelism, Meiotic Basis of Mendelism
24	Day 3 07/03/2018	The varieties of gene interactions: Epistasis, Complementary Genes
<b>Week 2</b>		
22	Day 1 12/03/2018	Supplementary Genes, Polymeric Genes, Inhibitory Genes
23	Day 2 13/03/2018	Duplicate Genes, Lethal Genes, Polygenic Inheritance
24	Day 3 14/03/2018	Pleotropy, Linkage, Theories of Linkage
<b>Week 3</b>		

22	Day 1 19/03/2018	Theory of linkage, Recombination
23	Day 2 20/03/2018	Example of crossing over
24	Day 3 21/03/2018	Theory of mechanism of crossing over, Cytological Basis of crossing over
<b>Week 4</b>		
22	Day 1 26/03/2018	Kind of crossing over
23	Day 2 27/03/2018	Sex determination and its mechanism: male and female heterozygous systems, genetic balance system
24	Day 3 28/03/2018	role of Y-chromosome, male haploidy, cytoplasmic and environmental factors, role of hormones in sex determination.
<b>April</b>		
<b>Week 1</b>		
22	Day 1 02/04/2018	Sex linked inheritance : Haemophilia and colour blindness in man
23	Day 2 03/04/2018	eye colour in Drosophila, Non-disjunction of sex-chromosome in Drosophila
24	Day 3 04/04/2018	Sex-linked and sex-influenced inheritance
<b>Week 2</b>		
22	Day 1 09/04/2018	Extra chromosomal and cytoplasmic inheritance
23	Day 2 10/04/2018	
24	Day 3 11/04/2018	

### Subject :Zoology paper-I (4-6)

S. No.	Days/ Dates	Topic
<b>January</b>		
<b>Week 1</b>		
1	Day 1 04/01/2018	Phylum - Mollusca: General characters and classification up to order level
2	Day 2 05/01/2018	Biodiversity and economic importance
3	Day 3 06/01/2018	Type study of – Pila: Habit, Habitat, External morphology
<b>Week 2</b>		
4	Day 1 11/01/2018	Mantle, Pallial complex, Locomotion, Digestive System

5	Day 2 12/01/2018	Respiratory system, Circulatory System
6	Day 3 13/01/2018	Circulatory System, Excretory system
<b>Week 3</b>		
7	Day 1 18/01/2018	Nervous System
8	Day 2 19/01/2018	Reproductive system
9	<b>Day 3</b> 20/01/2018	Torsion and detorsion in gastropoda
<b>Week 4</b>		
10	Day 1 25/01/2018	<b>Vasant Panchami</b>
11	Day 2 26/01/2018	Respiration in Mollusca
12	Day 3 27/01/2018	<b>Sir Chotu Ram Jayanti</b>
<b>February</b>		
<b>Week 1</b>		
13	Day 1 01/02/2018	Foot in Mollusca
14	Day 2 02/02/2018	Phylum – Echinodermata : General characters and classification up to order level
15	Day 3 03/02/2018	Biodiversity and economic importance
<b>Week 2</b>		
16	Day 1 08/02/2018	Type study – Asteries (Sea Star) Habit, Habitat, External morphology, Endoskeleton
17	Day 2 09/02/2018	Coelom , Digestive System
18	Day 3 10/02/2018	Locomotion, Circulatory System, Respiratory system
<b>Week 3</b>		
19	Day 1 15/02/2018	Excretory system, Nervous System, Sense Organs
20	Day 2 16/02/2018	Reproductive system
21	Day 3 17/02/2018	Echinoderm larvae, Aristotle's Lantern
<b>Week 4</b>		
22	Day 1 22/02/2018	Phylum Hemichordate : General Character, Classification & Affinities
23	Day 2 23/02/2018	Type Study of Ballangosus: Habit, Habitat, External morphology, Boddy wall
24	Day 3 24/02/2018	
<b>March</b>		
<b>Week 1</b>		
25	Day 1	Coelom , Skeleton, Digestive System

	01/03/2018	
26	Day 2 02/03/2018	Circulatory System, Respiratory system, Excretory system, Reproductive system
27	Day 3 03/03/2018	Multiple allelism : Eye colour in Drosophila, A, B, O blood group in man.
<b>Week 2</b>		
28	Day 1 08/03/2018	Multiple allelism A, B, O blood group in man. <b>Human genetics</b> : Human karyotype
29	Day 2 09/03/2018	<b>Chromosomal abnormalities involving autosomes and sex chromosomes, monozygotic and dizygotic twins.</b>
30	Day 3 10/03/2018	<b>Inborn errors of metabolism (Alcaptonuria, Phenylketonuria, Albinism, sickle-cell anaemia).</b>
<b>Week 3</b>		
31	Day 1 15/03/2018	Nature and structure of genetic material : Evidences for DNA & RNA as a genetic material
32	Day 2 16/03/2018	Structure and type of nucleic acids
33	Day 3 17/03/2018	Structure and type of nucleic acids
<b>Week 4</b>		
34	Day 1 22/03/2018	Function of genetic material: Central dogma, Replication
35	Day 2 23/03/2018	Transcription
36	Day 3 24/03/2018	Translation
<b>Week 5</b>		
37	Day 1 29/03/2018	Mutation –I
38	Day 2 30/03/2018	Mutation-I
39	Day 3 31/03/2018	Mutation-I
<b>April</b>		
<b>Week 1</b>		
40	Day 1 02/04/2018	Mutation-II
41	Day 2 03/04/2018	Mutation-II
42	Day 3 04/04/2018	Mutation-III
<b>Week 2</b>		
43	Day 1 09/04/2018	Mutation-III
44	Day 2	Applied genetics : Eugenics, euthenics and euphenics

	10/04/2018	
45	Day 3 11/04/2018	Applied genetics