

## SUBJECT - MATHEMATICS

**Text Books :** 1. NCERT Text Book for Class XI  
2. Senior Secondary School Mathematics For Class 11  
R.S. Aggarwal

MONTH	W.D.	PORTION TO BE TAUGHT	
April	21	Measurement of Angles Trigonometric or Circular Functions; Conditional Identities Trigonometric Equations, Complex No.	A
May	10	Graph of Trigonometric Functions, Limits, Quadratic Equations	B
June	10	Limits (Contd...), Differentiation	C
		27.06.2019	PT-1
		28.06.2019	Revision
July	24	01.07.2019 To 03.07.2019	Revision
		04.07.2019 To 10.07.2019	PT-1
		Set, Relations, Functions, Principle Mathematical Induction, Linear in Equations of two Variable	D
August	19	Statistics, Logarithm, Mathematical Reasoning	E
September	12	02.09.2019 To 16.09.2019	Half Yearly Exam
		17.09.2019 To 19.09.2019	NI
		Linear in Equation of one variable, Probability	F
October	14	Probability (Contd...), A.P., G.P.	G
November	20	G.P. (Contd...), Some special series straight line 3-Dimensional Geometry	H
December	18	Circle, Parabola, Ellipse, Hyperbola	I
January	21	02.01.2020 To 10.01.2020	PT-3
		Permutations, Combination, Binomial Theorem	J
February	23	03.02.2020 To 12.01.2020	Revision
		14.02.2020 to 27.02.2020	Annual Exam
March	23	-----	

**Portion for P.T.-1 – Sl. No. : A, B, C**  
**Portion for Half Yearly Exam – Sl. No. : A, B, C, D, E**  
**Portion for P.T.-3 – Sl. No. : F, G, H, I, and**  
**Some significant portion from Half Yearly (Sl. No. A to E)**  
**Portion for Annual Exam – A to J (Entire Syllabus)**

## BREAK-UP OF SYLLABUS SESSION : 2019-20

### CLASS - XI

## SUBJECT - ENGLISH

**Text Books :** 1. Hornbill Text book in English for Class XI (Core)/NCERT  
2. Snapshots - Supplementary Reader - XI / NCERT (Core Course)

MONTH	W.D.	PORTION TO BE TAUGHT	
April	21	The Portrait of a Lady, The Laburnum Top A Photograph Writing Skills, Note - Making, Grammar	A
May	10	The Summer of the Beautiful White Horse Writing Skills, Grammar, ASL	B
June	10	We're Not Afraid ..... Together Writing Skills, Grammar	C
		27.06.2019	PT-1
		28.06.2019	Revision
July	24	01.07.2019 To 03.07.2019	Revision
		04.07.2019 To 10.07.2019	PT-1
		Landscape of the Soul, The Voice of Rain, The Browning Version Mother's Day, Writing Skills	D
August	19	Ranga's Marriage, The Ailing Planet Discovering Tut ..... Continues, Note Making, Writing Skills, Grammar, ASL, Comprehension	E
September	12	02.09.2019 To 16.09.2019	Half Yearly Exam
		17.09.2019 To 19.09.2019	NI
		The Address, Writing Skills, Grammar	F
October	14	The Adventure, The Ghat of the Only World Writing Skills, Grammar	G
November	20	Childhood, Albert Einstein at School Writing Skills, Grammar, ASL	H
December	18	Birth, Silk Road, Writing Skills, Grammar, ASL	I
January	21	02.01.2020 To 10.01.2020	PT-3
		The Tale of Melon City Father to Son, Writing Skills, Note Making	J
February	23	03.02.2020 To 12.02.2020	Revision
		14.02.2020 to 27.02.2020	Annual Exam
March	23	-----	

**Portion for P.T.-1 – Sl. No. : A, B, C**  
**Portion for Half Yearly Exam – Sl. No. : A, B, C, D, E**  
**Portion for P.T.-3 – Sl. No. : F, G, H, I,**  
**[ The Portrait of Lady, A Photograph ]**  
**Portion for Annual Exam – A to J (Entire Syllabus)**

## SUBJECT - MATHEMATICS ACTIVITY

**Text Book :** NCERT MATHS LAB MANUAL

MONTH	W.D.	PORTION TO BE TAUGHT
April	21	Activity No. 1 : To find the number of subsets of a given set and verify that if a set has n number of elements, then the total number of subset is $2^n$ .
May	10	Activity No. 3 : To represent set theoretic operations using Venn-diagrams.
June	10	Activity No. 6 : Do distinguish between a relation and a function.
July	24	Activity No. 9 : To prepare a model to illustrate the values of sine function and cosine function for different angles which are multiplies of $\frac{\pi}{2}$ and $\pi$ . Activity No. 10 : To Plot the Graphs of $\sin x$ , $\sin 2x$ , $2\sin x$ and $\sin \frac{x}{2}$ using same.
August	19	Activity No. 13 : To verify the graph of a given inequality say $5x + 4y - 40 > 0$ of the form $AX + BY + C > 0$ , $A, B, C > 0$ represents only one of the two half planes.
September	12	Nil
October	14	Activity No. 15 : To construct a Pascal's triangle and to write Binomial expansion for given positive integral exponent.
November	20	Activity No. 20 : To verify that the equation of a line passing through the point of intersection of two lines $A_1X + B_1Y + C_1 = 0$ and $A_2X + B_2Y + C_2 = 0$ is of the form $A_1X + B_1Y + C_1 + \lambda(A_2X + B_2Y + C_2) = 0$
December	18	Activity No. 29 : Verification of the geometrical significance of derivative
January	21	Activity No. 33 : To write the sample space, when a coin is tossed once, two times, three times, four times.

## SUBJECT - PHYSICS

**Text Book :** NCERT Physics - XI  
New Simplified Physics (S.L. Arora)

MONTH	W.D.	PORTION TO BE TAUGHT	
April	21	Chap - 1 : Physical World Chap - 2 : Unit and Measurements Chap - 3 : Motion in Straight Line	A
May	10	Chap - 4 : Motion in a Plane	B
June	10	Chap - 5 : Laws of Motion	C
		27.06.2019	Revision
		28.06.2019	PT-1
July	24	01.07.2019 To 03.07.2019	Revision
		04.07.2019 To 10.07.2019	PT-1
		Chap - 6 : Work, Energy and Power Chap - 7 : System of Particles and Rotational Motion	D
August	19	Chap - 8 : Gravitation Chap - 9 : Mechanical Properties of Solids	E
September	12	02.09.2019 To 16.09.2019	Half Yearly Exam
		17.09.2019 To 19.09.2019	NI
		Chap - 10 : Mechanical Properties of Fluids	F
October	14	Chap - 10 : Mechanical Properties of Fluids Chap - 11 : Thermal Properties of Matter	G
November	20	Chap - 12 : Thermodynamics Chap - 13 : Kinetic Theory	H
December	18	Chap - 14 : Oscillations	I
January	21	02.01.2020 To 10.01.2020	PT-3
		Chap - 15 : Waves	J
February	23	03.02.2020 To 12.01.2020	Revision
		14.02.2020 to 27.02.2020	Annual Exam
March	23	-----	

**Portion for P.T.-1 – Sl. No. : A, B, C**  
**Portion for Half Yearly Exam – Sl. No. : A, B, C, D, E**  
**Portion for P.T.-3 – Sl. No. : F, G, H, I, and Ch. 06**  
**Portion for Annual Exam – A to J (Entire Syllabus)**

**SUBJECT - CHEMISTRY**

**Text Book :** NCERT CHEMISTRY - XI (Part I & II)  
Modern abc of Chemistry (Part I & II)

MONTH	W.D.	PORTION TO BE TAUGHT	
April	21	Ch. 1 : Some Basic Concept of Chemistry Ch. 2 : Structure of Atom	A
May	10	Ch. 3 : Classification of Element	B
June	10	Ch. 4 : Chemical Bonding and Molecular Structure	C
		27.06.2019	PT-1
		28.06.2019	Revision
July	24	01.07.2019 To 03.07.2019	Revision
		04.07.2019 To 10.07.2019	PT-1
		Ch. 5 : States of Matter, Ch. 6 : Thermodynamics Ch. 7 : Equilibrium	D
August	19	Ch. 12 : Organic Chemistry : Some Basic Principles Ch. 14 : Environmental Pollution	E
September	12	02.09.2019 To 16.09.2019	Half Yearly Exam
		17.09.2019 To 19.09.2019	NI
		Chap - 8 : Redox Reactions	F
October	14	Chap - 9 : Hydrogen Chap - 10 : S-Block Element	G
November	20	Chap - 11 : P-Block Elements	H
December	18	Chap - 11 : P-Block Elements	I
January	21	02.01.2020 To 10.01.2020	PT-3
		Chap - 13 : Hydrocarbon	J
February	23	03.02.2020 To 12.02.2020	Revision
		14.02.2020 To 27.02.2020	Annual Exam
March	23	-----	

**Portion for P.T.-1 – Sl. No. : A, B, C**  
**Portion for Half Yearly Exam – Sl. No. : A, B, C, D, E**  
**Portion for P.T.-3 – Sl. No. : F, G, H, I, and**  
**Some significant portion from Half Yearly (Sl. No. A to E)**  
**Portion for Annual Exam – A to J (Entire Syllabus) As per CBSE Curriculum**

**SUBJECT - PHYSICS (PRACTICAL)**

**Text Book :** NEW ERA PHYSICS PRACTICAL

MONTH	W.D.	PORTION TO BE TAUGHT	
April	21	Exp. No - 1 : To measure diameter of small spherical/cylindrical body and to measure internal diameter and depth of a given beaker using vernier callipers and hence to find the volume. Exp. No. - 2 : To measure diameter of a given wire and thickness of a given sheet using screw gauge.	A
May	10	Exp. No. - 3 : To determine volume of an irregular lamina using screw gauge. Exp. No. - 4 : To determine radius of curvature of a given spherical surface by a spherometer.	B
June	10	Exp. No. - 5 : To measure the mass of two different objects using a objects balance.	C
July	24	Exp. No. - 6 : To find the weight of a given body using parallelogram law of vectors. Exp. No. - 7 : Using a simple pendulum, Plot its L-T <sup>2</sup> graph and use it to find the effective length of second's pendulum.	D
August	19	Exp. No. - 8 : To study variation of time period of a simple pendulum of a given length by taking bobs of same size but different masses and interpret the result. Exp. No. - 9 : To study the relationship between force of limiting friction and normal reaction and to find the coefficient of friction.	E
September	12	Exp. No. - 10 : To determine Young's Modulus of elasticity of a given wire.	F
October	14	Exp. No. - 11 : To find force constant of a helical spring by plotting load Vs extension graph. Exp. No. - 12 : To determine coefficient of viscosity of given viscus liquid	G
November	20	Exp. No. - 13 : To study relationship between the temperature of hot body and time by plotting cooling curve. Exp. No. - 14 : To study relation between frequency and length of a given wire under constant tension sonometer.	H
December	18	Exp. No. - 15 : To study relation between the length of a given wire and tension for constant frequency sonometer.	I
January	21	<b>ANNUAL EXAM</b>	

**Portion for Half Yearly Exam – Sl. No. : A, B, C, D, E**  
**Portion for Annual Exam – A to I**

## SUBJECT - BIOLOGY

**Text Book :** BIOLOGY TEXTBOOK FOR CLASS - XI (NCERT)

**Ref. Book :** Dinesh Companion Biology - XI (Vol. I & II), K. Bhatti

MONTH	W.D.	PORTION TO BE TAUGHT	
April	21	Ch. 1. The Living World Ch. 2. Biological Classification Ch. 3. Plant Kingdom	A
May	10	Ch. 4. Animal Kingdom Ch. 5. Morphology of Flowering Plants	B
June	10	Ch. 5. Morphology of Flowering Plants Ch. 6. Anatomy of Flowering Plants	C
		27.06.2019	PT-1
		28.06.2019	Revision
July	24	01.07.2019 To 03.07.2019	Revision
		04.07.2019 To 10.07.2019	PT-1
		Ch. 7. Structural Organisation in Animals Ch. 8. Cell : The Unit of Life, Ch. 9. Biomolecules	D
August	19	Ch. 10. Cell Cycle and Cell Division Ch. 11. Transport in Plants Ch. 12. Mineral Nutrition Ch. 13. Photosynthesis in Higher Plants	E
September	12	02.09.2019 To 16.09.2019	Half Yearly Exam
		17.09.2019 To 19.09.2019	NI
		Ch. 14. Respiration in Plants	F
October	14	Ch. 15. Plantgrowth and development Ch. 16. Digestion and Absorption Ch. 17. Breathing and Exchange of Gases	G
November	20	Ch. 18. Bodyfluids and Circulation Ch. 19. Excretory Products and Their Elimination Ch. 20. Locomotion and Movement	H
December	18	Ch. 20. Locomotion and Movement Ch. 21. Neural Control and Coordination	I
January	21	02.01.2020 To 10.01.2020	PT-3
		Ch. 22. Chemical Coordination and Integration	J
February	23	03.02.2020 To 12.01.2020	Revision
		14.02.2020 to 27.02.2020	Annual Exam
March	23	-----	

Portion for P.T.-1 – Sl. No. : A, B, C

Portion for Half Yearly Exam – Sl. No. : A, B, C, D, E

Portion for P.T.-3 – Sl. No. : F, G, H, I & Ch-8, Ch-10 and Ch-13

Portion for Annual Exam – A to J (Entire Syllabus) As per CBSE Curriculum

## SUBJECT - CHEMISTRY (PRACTICAL)

**Text Book :** Comprehensive Practical Chemistry (Laxmi Publication)  
Class XI

MONTH	W.D.	PORTION TO BE TAUGHT	
April	21	Ex-1 : (a) Prepare ( $\frac{N}{10}$ ) $\text{Na}_2\text{CO}_3$ Solution (b) Titration : $\text{Na}_2\text{CO}_3$ By HCl	
May	10	Ex-2 : (a) Prepare ( $\frac{N}{10}$ ) Oxalic Acid (b) Titration : $(\text{COOH})_2$ By NaOH	
June	10	Ex-3 : Known Tests for Acid Radicals Ex-4 : Known Tests for Acid Radicals	
July	24	Ex-5 : Unknown Tests for Basic Radicals and Acid Radicals	
August	19	Ex-6 : Salt Analysis (Known) Ex-7 : Study the pH Change in the Titration of ( $\frac{M}{10}$ ) HCl with ( $\frac{M}{10}$ ) NaOH using pH Paper	
		<b>22.08.2019 To 30.08.2019 (HY. PRAC. EXAM)</b>	
September	12	Ch - 8 : Salt Analysis (Unknown)	
October	14	Ch - 8 : Salt Analysis (Unknown)	
November	20	Ch - 8 : Salt Analysis (Unknown)	
December	18	Ch - 8 : Salt Analysis (Unknown)	
January	21	Activities (1 to 7)	
		<b>13.01.2020 To 15.01.2020 (Annual Prac. Exam)</b>	
February	23	Revision of Annual Exam	
		<b>14.02.2020 To 27.02.2020 (Annual Exam)</b>	
March	23		

## SUBJECT - BIOTECHNOLOGY

**Text Book : A TEXT BOOK OF BIOTECHNOLOGY, CLASS - XI  
CBSE Publication**

MONTH	W.D.	PORTION TO BE TAUGHT	
April	21	1. Biotechnology : An Overview 2. Bio-Molecules : Building Blocks	A
May	10	Bio-Molecules : Building Blocks (Contd...)	B
June	10	Bio-Molecules : Building Blocks (Contd...) 3. Bio-Molecules : Structure & Function	C
		27.06.2019	PT-1
		28.06.2019	Revision
July	24	01.07.2019 To 03.07.2019	Revision
		04.07.2019 To 10.07.2019	PT-1
		Bio-Molecules : Structure & Function (Contd...) 4. Basic Unit of Life	D
August	19	5. Cell Growth and Function	E
September	12	02.09.2019 To 16.09.2019	Half Yearly Exam
		17.09.2019 To 19.09.2019	NI
		6. Genetics	F
October	14	6. Genetics (Contd...)	G
November	20	7. Genes and Genomes	H
December	18	7. Genes and Genomes (Contd..)	I
		02.01.2020 To 10.01.2020	PT-3
January	21	7. Genes and Genomes (Contd..)	J
February	23	03.02.2020 To 12.01.2020	Revision
		14.02.2020 to 27.02.2020	Annual Exam
March	23	-----	

## SUBJECT - BIOLOGY (PRACTICAL)

**Text Book : CBSE Biology Lab Manual - Class XI, Dhanpat Rai & Co.**

MONTH	W.D.	PORTION TO BE TAUGHT	
April	21	1. Study of Osmosis by Potato Osmometer 2. Study of Parenchyma, Collenchyma, Sclerenchyma	A
May	10	<b>3. Spotting of Plant Specimens</b> – Mushroom, Spirogyra, Moss, Fern, Pinus, One Dicot, One Monocot Plant.	B
June	10	4. Spotting of Animal Specimens – Amoeba, Ascaris, Leech, Earthworm, Liverfluke, Apple Snail, Starfish, Shark, Rohu	C
		27.06.2019	PT-1
		28.06.2019	Revision
July	24	01.07.2019 To 03.07.2019	Revision
		04.07.2019 To 10.07.2019	PT-1
		5. Study of Distribution of Stomata in the upper and lower surface of leaves. 6. Study of Different Modification in Roots, Stems and Leaves. 7. Study of T.S. of Dicot Stem and Monocot Stem 8. Food Tests : Test for the presence of the following in suitable plant and animal materials : (a) Sugar (b) Fats	D
August	19	8) Food Test : (c) Starch	E
		22.08.2019 To 30.08.2019 (Half Yearly Exam - Practical)	
September	12	02.09.2019 To 16.09.2019	Half Yearly Exam
		17.09.2019 To 19.09.2019	NI
		9) Investigatory Project - Discussion, Submission in Annual Practical Examination 10) Study of T.S. of Dicot Root and Monocot Root	F
October	14	11) Study of Human Skeleton – (a) Axial 12) Study of Mitosis in Onion Root Tip Cells From Permanent Slides	G
November	20	13) Study of Human Skeleton - (b) Appendicular 14) Study of Bones and Joints in Human Skeleton	H
December	18	Laboratory Manual Completion and Submission	I
January	21	<b>02.01.2020 To 10.01.2020</b>	PT-3
		Investigatory Project Submission	J
		<b>13.01.2020 To 15.01.2020 Annual Practical Examination</b>	
February	23	<b>03.02.2020 To 12.02.2020</b>	Revision
		<b>14.02.2020 To 27.02.2020</b>	Annual Exam

**Portion for Half Yearly Exam – Sl. No. : A, B, C, D, E  
Portion for Annual Exam – A to J (Entire Syllabus) As per CBSE Curriculum**

## SUBJECT - COMPUTER SCIENCE (NEW) (TH)

Text Book : COMPUTER SCIENCE-PYTHON - 11 (Sumita Arora)

MONTH	W.D.	PORTION TO BE TAUGHT	
April	21	Ch-1 : Getting Started with Python Ch-2 : Python Fundamentals Ch-3 : Data Handling	A
May	10	Ch-4 : Conditional and Iterative Statements. Ch-12 : Computer System Overview	B
June	10	Ch-12 : Computer System Overview (Contd...)	C
		27.06.2019	PT-1
		28.06.2019	Revision
July	24	01.07.2019 To 03.07.2019	Revision
		04.07.2019 To 10.07.2019	PT-1
		Ch-5 : String Manipulation Ch-6 : Debugging Programs	D
August	19	Ch-7 : List Manipulation Ch-8 : Tuples Ch-13 : Data Representation	E
September	12	02.09.2019 To 16.09.2019	Half Yearly Exam
		17.09.2019 To 19.09.2019	NI
		Ch-9 : Dictionaries Ch-10 : Understanding Sorting	F
October	14	Ch-14 : Boolean Logic Ch-16 : Relational Databases	G
November	20	Ch-17 : Sample Queries in SQL Ch-18 : Table Creation and Data Manipulation Commands	H
December	18	Ch-19 : Table Joins and Indexes in SQL. Ch-20 : Basics of NoSQL Database MONGODB.	I
January	21	02.01.2020 To 10.01.2020	PT-3
		Ch-15 : Insight Into program Execution Ch-21 : Cyber Safety Ch-22 : Online Access and Computer Security	J
		03.02.2020 To 12.01.2020	Revision
February	23	14.02.2020 to 27.02.2020	Annual Exam
March	23	-----	

Portion for P.T.-1 – Sl. No. : A, B, C  
Portion for Half Yearly Exam – Sl. No. : A, B, C, D, E  
Portion for P.T.-3 – Sl. No. : F, G, H, I & Ch-4  
Portion for Annual Exam – A to J (Entire Syllabus)

## SUBJECT - BIOTECHNOLOGY (PRACTICAL)

Text Book : A LABORATORY MANUAL OF BIOTECHNOLOGY - XI  
CBSE Publication

MONTH	W.D.	PORTION TO BE TAUGHT	
April	21	Recording Practical Result & Safety Rules Preparation of Buffer & pH Determination	A
May	10	Sterilization Techniques	B
June	10	Preparation of Bacterial Growth Medium	C
July	24	Determination of Bacterial Growth Curve Cell Counting	D
August	19	Isolation of Milk Protein	E
September	12	Estimation of Protein	F
October	14	Estimation of Protein Enzyme Assay (Acid Phosphatase)	G
November	20	Blood Glucose Estimation Preparation of Karyotype	H
December	18	Preparation of Karyotype	I
January	21	Revision	J

Portion for Half Yearly Exam – Sl. No. : A, B, C, D, E  
Portion for Annual Exam – A to J (Entire Syllabus) As per CBSE Curriculum

MONTH	W.D.	PORTION TO BE TAUGHT	
September	23	02.09.2019 To 16.09.2019	Half Yearly Exam
		17.09.2019 To 19.09.2019	NI
		Exp-15 : Write a program in Python to demonstrate Dictionaries. Exp-16 : Write a program in Python to search a number in a LIST	F
October	14	Exp-17 : Write a program in Python to demonstrate Bubble Sort Exp-18 : Write a program in Python to demonstrate Insertion Sort.	G
November	20	Exp-19 : SQL QUERIES Exp-20 : SQL QUERIES	H
December	18	Exp-21 : SQL QUERIES Exp-22 : SQL QUERIES	I
January	21	<b>02.01.2020 To 10.01.2020</b>	PT-3
		Exp-23 : SQL QUERIES Exp-24 : SQL QUERIES	J
February	23	<b>03.02.2020 To 12.02.2020</b>	Revision
		<b>14.02.2020 to 27.02.2020</b>	<b>Annual Exam</b>
March	23	-----	

**Portion for P.T.-1 – Sl. No. : A, B, C**  
**Portion for Half Yearly Exam – Sl. No. : A, B, C, D, E**  
**Portion for P.T.-3 – Sl. No. : F, G, H, I & Ch-4**  
**Portion for Annual Exam – A to J (Entire Syllabus)**

## SUBJECT - COMPUTER SCIENCE (PRACTICAL)

**Text Book : COMPUTER SCIENCE-PYTHON - 11 (Sumita Arora)**

MONTH	W.D.	PORTION TO BE TAUGHT	
April	21	Exp-1 : Write a program in Python to find the sum and average of three numbers. Exp-2 : Write a program in Python to swap two numbers with the help of third variable. Exp-3 : Write a program in Python to swap two numbers without the help of third variable.	A
May	10	Exp-4 : Write a program in Python to find the maximum of three numbers Exp-5 : Write a program in Python to check whether a year is Leap year or not. Exp-6 : Write a program in Python to demonstrate the use of if-elif.	B
June	10	Exp-7 : Write a program in Python to check whether a number is Armstrong or not Exp-8 : Write a program in Python to print the multiplication table.	C
		27.06.2019	PT-1
		28.06.2019	Revision
July	24	01.07.2019 To 03.07.2019	Revision
		04.07.2019 To 10.07.2019	PT-1
		Exp-9 : Write a program in python to enter a String and perform the following task - (i) Count how many vowels are present. (ii) Count no. of Upper case letter. (iii) Count no. of Lower case letter. (iv) Count no. of Words. Exp-10 : Write a program in Python to check whether a string is Palindrome or not	D
August	21	Exp-11 : Write a program in Python to count how many numbers are prime in a LIST Exp-12 : Write a program in Python to find the sum of all odd number and even number in a LIST Exp-13 : Write a program in Python to find the maximum and minimum in a tuple. Exp-14 : Write a program in Python to find the sum of all buzz numbers in a tuple.	E

## SUBJECT - INFORMATICS PRACTICES

**Text Book : Informatics Practices - Sumita Arora**

MONTH	W.D.	PORTION TO BE TAUGHT	
April	21	<b>Unit 1: Introduction on Computer System</b> (1) <u>Basic computer organisation</u> : I/O Devices, CPU, memory, hard disk, battery, power, transition from a calculator to a computer and further to smart devices. (2) Trouble shooting with parts of computer and basic operations of operating system. Basic concept of Data representation: Binary, ASCII, Unicode.	A
May	10	<b>Unit 2: Introduction Python programming</b> (1) Familiarization with the basics of Python programming: a simple "hello world" program, process of writing a program, running it, and print statements; simple data-types: integer, float, string. (2) Introduce the notion of a variable, and methods to manipulate it (concept of L-value and R-value even if not taught explicitly)	B
June	10	(3) Tokens – Keywords, identifiers, Literals, Delimiters. Knowledge of data type and operators: accepting input from the console, assignment statement, expressions, operators (assignment, arithmetic, relational and logical) and their precedence. (4) Conditional statements: if, if-else, if-elif-else; simple programs: e.g.: absolute value, sort 3 numbers, divisibility.	C
		27.06.2019	PT-1
		28.06.2019	Revision
		01.07.2019 To 03.07.2019	Revision
		04.07.2019 To 10.07.2019	PT-1
July	24	(5) Notion of iterative computation and control flow: for (range(), len()), while, flowcharts. (6) Suggested programs: finding average and grade for given marks, amount calculation for given cost-qty-discount, perimeter-wise / area-wise cost calculation, interest calculation, profit-loss, EMI, tax calculation (examples from GST/Income Tax). (7) Lists and dictionary: finding the maximum, minimum, mean; linear search on a list of numbers, and counting the frequency of elements in a list using a dictionary.	D
August	19	8) Text handling: compare, concat, and substring operations (without using string module). (9) Introduction to Python modules: importing math (sqrt, ceil, floor, pow, fabs), random (random, randint, randrange), statistics (mean, median) modules.	E

MONTH	W.D.	PORTION TO BE TAUGHT	
		02.09.2019 To 16.09.2019	Half Yearly Exam
		17.09.2019 To 19.09.2019	NI
September	23	<b>Unit 3: Data Handling</b> Numpy 1D array, 2D array Arrays: slices, joins, and subsets. Arithmetic operations on 2D arrays.	F
October	14	<b>Unit 4: Data Management</b> (1) Relational databases: concept of a database, relations, attributes and tuples, keys – candidate key, primary key, alternate key, foreign key; Degree and Cardinality of a table.	G
November	20	(2) Use SQL – DDL/DML commands to CREATE TABLE, INSERT INTO, UPDATE TABLE, DELETE FROM, ALTER TABLE, MODIFY TABLE, DROP TABLE, keys, and foreign keys; to view content of a table: SELECT-FROM-WHERE-ORDER BY alongwith BETWEEN, IN, LIKE. (Queries only on single table) (3) Aggregate Functions: MIN, MAX, AVG, COUNT, SUM.	H
December	18	<b>Unit 5: Society, Law and Ethics</b> (1) Cyber safety: safely browsing the web, identity protection, confidentiality, social networks, netiquettes, digital footprint, cyber trolls and bullying. (2) Appropriate usage of social networks: spread of rumours, and common social networking sites (Twitter, LinkedIn, and Facebook) and specific usage rules.	I
		<b>02.01.2020 To 10.01.2020</b>	PT-3
January	21	3) Safely accessing web sites: adware, malware, viruses, Trojans. (4) Safely communicating data: secure connections, eavesdropping, and phishing and identity verification.	J
February	23	<b>03.02.2020 To 12.02.2020</b>	Revision
		<b>14.02.2020 to 27.02.2020</b>	Annual Exam
March	23	-----	

**Portion for P.T.-1 – Sl. No. : A, B, C**  
**Portion for Half Yearly Exam – Sl. No. : A, B, C, D, E**  
**Portion for P.T.-3 – Sl. No. : F, G, H, I & (Unit - 2 : 7, 8, 9)**  
**Portion for Annual Exam – A to J (Entire Syllabus)**

## SUBJECT - INFORMATICS PRACTICES (PRACTICAL)

**Text Book : Informatics Practices - Sumita Arora**

MONTH	W.D.	PORTION TO BE TAUGHT		
April	21	(1) To find average and grade for given marks, (2) To find amount for given cost-qty-discount, (3) To calculate cost perimeter-wise/ area-wise, (4) To calculate interest (Simple and Compound)	A	
May	10	(5) To calculate profit-loss for given Cost and Sell Price (6) To calculate EMI for Amount, Period and Interest. (7) To calculate tax (examples from GST/Income Tax) (8) To find the sum of squares of the first 100 natural numbers.	B	
June	10	(9) To compute $x^n$ , for given two integers $x$ and $n$ , (10) To compute the greatest common divisor and the least common multiple of two integers. (11) To test if a number is equal to the sum of the cubes of its digits. (12) To find the smallest and largest such numbers in the range of 100 to 1000.		
		27.06.2019		PT-1
		28.06.2019		Revision
July	24	01.07.2019 To 03.07.2019	Revision	
		04.07.2019 To 10.07.2019	PT-1	
		(13) To find the largest and smallest numbers in a list. (14) To find the third largest number in a list. (15) To find whether a string is a palindrome or not.	D	
August	19	(16) Import numpy as `np` and print the version number. (17) To create an array of 1D containing numeric values 0 to 9 (18) To create a numPy array with all values as True	E	

MONTH	W.D.	PORTION TO BE TAUGHT	
September	23	02.09.2019 To 16.09.2019	Half Yearly Exam
		17.09.2019 To 19.09.2019	NI
		(19) To extract all odd numbers from numPy array	F
October	14	(20) To extract all even numbers from numPy array (21) To copy the content of an array A to another array B, replacing all odd numbers of array A with -1 without altering the original array A (22) To replace all odd numbers in numPyarr with -1	G
November	20	(23) To copy content of a 1D array into a 2D array with 2 rows (24) To perform basic arithmetic operations on 1D and 2D array	H
December	18	(25) Write four SQL queries. (26) Write four SQL queries. (27) Write four SQL queries.	I
January	21	<b>02.01.2020 To 10.01.2020</b>	PT-3
		(28) Write four SQL queries.	J
February	23	<b>03.02.2020 To 12.02.2020</b>	Revision
		<b>14.02.2020 to 27.02.2020</b>	Annual Exam
March	23	-----	

**Portion for P.T.-2 (Half Yearly Exam) – Sl. No. : A, B, C, D, E  
Portion for P.T.-4 – Sl. No. : A to J (Entire Syllabus)**

## SUBJECT - PHYSICAL EDUCATION (TH)

**Text Book : Saraswati Health and Physical Education XI  
Dr. V. K. Sharma**

MONTH	W.D.	PORTION TO BE TAUGHT	
April	21	Changing Trends and Career in Physical Education (1), Olympic Value Education (2)	A
May	10	Physical Fitness, Wellness and Life style (3)	B
June	10	Physical Education & Sports for CWSN (Children with special need Divyng) (4)	C
		27.06.2019	PT-1
		28.06.2019	Revision
July	24	01.07.2019 To 03.07.2019	Revision
		04.07.2019 To 10.07.2019	PT-1
		Yoga (5)	D
August	19	Physical Activity & Leadership training (6)	E
September	12	02.09.2019 To 16.09.2019	Half Yearly Exam
		17.09.2019 To 19.09.2019	NI
		Test, Measurement & Evaluation (7)	F
October	14	Fundamentals of Anatomy & Physiology & Kinesiology in Sports (8)	G
November	20	Psychology & Sports (9)	H
December	18	Training & Doping in Sports (10)	I
January	21	02.01.2020 To 10.01.2020	PT-3
		Doping	J
February	23	Revision	
		03.02.2020 To 12.01.2020	Revision
		14.02.2020 To 27.02.2020	Annual Exam
March	23	-----	

**Portion for P.T.-1 – Sl. No. : A, B, C**  
**Portion for Half Yearly Exam – Sl. No. : A, B, C, D, E**  
**Portion for P.T.-3 – Sl. No. : F, G, H, I & Some significant portion from Half Yearly (Sl. No. A to E)**  
**Portion for Annual Exam – A to J (Entire Syllabus)**

BREAK-UP OF SYLLABUS : 2019-20/CLASS - XI 19

## SUBJECT - PHYSICAL EDUCATION (PRACTICAL)

**Text Book : Physical Education Practical Manual, Class XI, Dr. J. Goswami**

MONTH	W.D.	PORTION TO BE TAUGHT	
April	21	Physical Fitness (AAHPER)	A
May	10	Skill of any one individual Game of choice from the given list Badminton	B
June	10	Health & Fitness Activities, Jump Medicine Ball / Skipping	C
		27.06.2019	PT-1
		28.06.2019	Revision
July	24	01.07.2019 To 03.07.2019	Revision
		04.07.2019 To 10.07.2019	PT-1
		Skill of any one individual Game of choice from the given list Badminton	D
August	19	Revision	E
		22.08.2019 To 30.08.2019 (Half Yearly Exam - Practical)	
September	12	02.09.2019 To 16.09.2019	Half Yearly Exam
		17.09.2019 To 19.09.2019	NI
		Labelled diagram of 400mt Track and Field with Computations	F
October	14	Measurement BMI of ten members from Family or neighbourhood & Show graphical representation of data.	G
November	20	Labelled diagram of field and equipment of any one game of your choice out of the above list.	H
December	18	Pictorial Presentation of any five Asanas for improving Concentration	I
		02.01.2020 To 10.01.2020	PT-3
January	21	Explanation and list of current National Awardees, Record File	J
		03.02.2020 To 12.02.2020	Revision
February	23	14.02.2020 To 27.02.2020	Annual Exam

**Portion for P.T.-1 – Sl. No. : A, B, C**  
**Portion for Half Yearly Exam – Sl. No. : A, B, C, D, E**  
**Portion for P.T.-3 – Sl. No. : F, G, H, I & Some significant portion from Half Yearly (Sl. No. A to E)**  
**Portion for Annual Exam – A to J (Entire Syllabus)**

20 BREAK-UP OF SYLLABUS : 2019-20/CLASS - XI

## SUBJECT - ACCOUNTANCY

**Text Book :** A Text Book for ACCOUNTANCY FOR CLASS - XI NCERT (PART- I & II)  
**Ref. Book :** Accountancy for Class XI : Goel, Goel, Goel

MONTH	W.D.	PORTION TO BE TAUGHT	
April	21	Ch. 1 : Introduction to Accounting Ch. 2 : Theory Base of Accounting (Partly)	A
May	10	Ch. 3. Recording of Transaction	B
June	10	Ch. 3. Recording of Transaction (Contd..)	C
		27.06.2019	PT-1
		28.06.2019	Revision
July	24	01.07.2019 To 03.07.2019	Revision
		04.07.2019 To 10.07.2019	PT-1
		Ch. 4. Preparation of Ledger, Trialbalance and Bank Reconciliation Statement	D
August	19	Ch. 6. Accounting for Bill of Exchange Ch. 7. Rectification of Errors	E
September	12	02.09.2019 To 16.09.2019	Half Yearly Exam
		17.09.2019 To 19.09.2019	NI
		Ch. 5. Depreciation, Provision and Reserves (Partly)	F
October	14	Ch. 5. Depreciation, Provision and Reserves (Partly)	G
November	20	Ch. 5. Depreciation, Provision and Reserves (Remaining Part) Ch. 8. Financial Statements of Sole Proprietorship Business (Partly)	H
December	21	Ch. 8. Financial Statements of Sole Proprietorship Business (Remaining Part)	I
January	21	02.01.2020 To 10.01.2020	PT-3
		Ch. 10. Accounting from Incomplete Records Ch.11. Computer in Accounting Assignment & Collection of Project work	J
February	23	03.02.2020 To 12.01.2020	Revision
		14.02.2020 to 27.02.2020	Annual Exam
March	23	-----	

**Portion for P.T.-1 – Sl. No. : A, B, C**  
**Portion for Half Yearly Exam – Sl. No. : A, B, C, D, E**  
**Portion for P.T.-3 – Sl. No. : F, G, H, I &**

**Some significant portion from Half Yearly (Sl. No. A To E)**  
**Portion for Annual Exam – A to J (Entire Syllabus) As per CBSE Curriculum**

BREAK-UP OF SYLLABUS : 2019-20/CLASS - XI 21

## SUBJECT - BUSINESS STUDIES

**Text Book :** BUSINESS STUDIES FOR CLASS XI : Part - 1, NCERT  
**Ref. Book :** BUSINESS STUDIES Textbook for Class XI : Meena Verma  
 Dhanpat Rai Publication

MONTH	W.D.	PORTION TO BE TAUGHT	
April	21	Ch. 1. Nature & Purpose of Business	A
May	10	Ch. 2. Forms of Business Organisation (Partly)	B
June	10	Froms of Business Organisation (Remaining Part) Partly from the ch. FORMATION OF A COMPANY (As per last year's NCERT BOOK) Ch. 3. Private, Public & Global Enterprises	C
		27.06.2019	PT-1
		28.06.2019	Revision
		01.07.2019 To 03.07.2019	Revision
July	24	04.07.2019 To 10.07.2019	PT-1
		Ch. 4. : Business Services Ch. 5. Emerging Modes of Business (Partly)	D
		Emerging Modes of Business (Remaining Part) Ch. 6. Social Responsibility of Business & Business Ethics	E
September	12	02.09.2019 To 16.09.2019	Half Yearly Exam
		17.09.2019 To 19.09.2019	NI
		Ch. 7. Sources of Business Finance (Partly)	F
October	14	Sources of Business Finance (Remaining Part) Ch. 8. Small Business (Partly)	G
November	20	Small Business (Remaining Part)	H
December	21	Ch. 9. Internal Trade	I
January	21	02.01.2020 To 10.01.2020	PT-3
		Ch. 10. International Business - I Ch. 11. International Business - II Assignment & Collection of Project Work	J
February	23	03.02.2020 To 12.01.2020	Revision
		14.02.2020 to 27.02.2020	Annual Exam
March	23	-----	

**Portion for P.T.-1 – Sl. No. : A, B, C**  
**Portion for Half Yearly Exam – Sl. No. : A, B, C, D, E**  
**Portion for P.T.-3 – Sl. No. : F, G, H, I &**  
**Some significant portion from Half Yearly (Sl. No. A To E)**  
**Portion for Annual Exam – A to J (Entire Syllabus) As per CBSE Curriculum**

22 BREAK-UP OF SYLLABUS : 2019-20/CLASS - XI

## SUBJECT - ECONOMICS

**Text Book : Statistics for ECONOMICS (NCERT)  
Introductory Microeconomics (NCERT)**

MONTH	W.D.	PORTION TO BE TAUGHT	
April	21	Ch. 1. Introduction to Microeconomics Ch. 2. Consumer Equilibrium	A
May	10	Ch. 1. Introduction to Statistics Ch. 2. Collection of Data	B
June	10	Ch. 3. Theory of Demand and Elasticity of Demand	C
		27.06.2019	PT-1
		28.06.2019	Revision
July	24	01.07.2019 To 03.07.2019	Revision
		04.07.2019 To 10.07.2019	PT-1
		Ch. 4. Production Function, Ch. 5. Cost Ch. 6. Revenue, Ch. 3. Organisation of Data Ch. 5. Measures of Central Tendency	D
		Ch. 7. Producer's Equilibrium, Supply and Elasticity of Supply Ch. 6. Measures of Dispersion	E
September	12	02.09.2019 To 16.09.2019	Half Yearly Exam
		17.09.2019 To 19.09.2019	NI
		Ch. 8. Forms of Market	F
October	14	Ch. 7. Correlation	G
November	20	Ch. 9. Price Determination Under Perfect Competition Ch. 8. Index Number (Only Specific Portion) (Simple Index No)	H
December	18	Ch. 10. Simple Applications of Demand and Supply	I
January	21	02.01.2020 To 10.01.2020	PT-3
		Ch. 8. Index Number (Remaining Part) (Weighted Index No)	J
February	23	03.02.2020 To 12.02.2020	Revision
		14.02.2020 To 27.02.2020	<b>Annual Exam</b>
March	23	-----	

**Portion for P.T.-1 – Sl. No. : A, B, C**

**Portion for Half Yearly Exam – Sl. No. : A, B, C, D, E**

**Portion for P.T.-3 – Sl. No. : F, G, H, I, and (Measures of Dispersion)**

**Portion for Annual Exam – A to J (Entire Syllabus)**

BREAK-UP OF SYLLABUS : 2019-20/CLASS - XI **23**

## SUBJECT - GEOGRAPHY (TH)

**Text Books : A. Fundamental of Physical Geography (NCERT)  
B. Physical Environment (NCERT)  
C. Oxford School Atlas**

MONTH	W.D.	PORTION TO BE TAUGHT	
April	21	A: Geography As a Discipline (Ch 1) The Origin & Evolution of the Earth (Ch 2) B: India – Location (Ch 1)	A
May	10	A: The Interior of the Earth (Ch 3) B: India - Structure & Physiography (Ch 2)	B
June	10	A: Distribution of Oceans & Continents (Ch 4) Minerals & Rock (Ch 5) B: India - Structure & Physiography (Ch 2) Drainage System (Ch 3)	C
		27.06.2019	PT-1
		28.06.2019	Revision
		01.07.2019 To 03.07.2019	Revision
July	24	04.07.2019 To 10.07.2019	PT-1
		A: Geomorphic Processes (Ch 6) Landforms & Their evolution (Ch 7) B: Climate (Ch 4)	D
		A: Water Oceans (Ch 13) Movements of Ocean Water (Ch 14)	E
September	12	02.09.2019 To 16.09.2019	Half Yearly Exam
		17.09.2019 To 19.09.2019	NI
		A: Composition & Structure of Atmosphere (Ch 8)	F
October	14	A: Ch 8 (Contd) Solar Radiation, Heat Balance & Temperature (Ch 9), Atmospheric Circulation & Weather System (Ch 10) B: Natural Vegetation (Ch 5)	G
November	20	A: Water in the Atmosphere (Ch 11) World Climate and Climate Change (Ch 12) B: Soils (Ch 6)	H
December	18	A: Life on the Earth (Ch 15) Biodiversity & Conservation (Ch 16) B: Natural Hazards & Disasters (Ch 7)	I
January	21	02.01.2020 To 10.01.2020	PT-3
		A: World Map & Map Practice	J
February	23	03.02.2020 To 12.02.2020	Revision
		14.02.2020 To 27.02.2020	<b>Annual Exam</b>
March	23	-----	

**Portion for P.T.-1 – Sl. No. : A, B, C**

**Portion for Half Yearly Exam – Sl. No. : A, B, C, D, E**

**Portion for P.T.-3 – Sl. No. : F, G, H, I, and**

**Some significant portion from Half Yearly (Sl. No. A To E)**

**Portion for Annual Exam – A to J (Entire Syllabus) As per CBSE Curriculum**

BREAK-UP OF SYLLABUS : 2019-20/CLASS - XI **24**

## SUBJECT - GEOGRAPHY PRACTICAL

**Text Book :** PRACTICAL WORK IN GEOGRAPHY - NCERT, Class-XI

MONTH	W.D.	PORTION TO BE TAUGHT	
April	21	Fundamental of maps (Ch - 1)	A
May	10	Maps - Measuring distance, Direction & Symbols (Ch - 2)	B
June	10	Latitude, Longitude & Time (Ch 3)	C
		27.06.2019	Revision
		28.06.2019	PT-1
July	24	01.07.2019 To 03.07.2019	Revision
		04.07.2019 To 10.07.2019	PT-1
		Ch. 4. Map Projection Simple Conical Mercator's Projection	D
August	19	Ch. 4. Contd..	E
September	12	02.09.2019 To 16.09.2019	Half Yearly Exam
		17.09.2019 To 19.09.2019	NI
		Revision	F
October	14	Topographical Maps (Ch 5) Aerial Photography Satellite imageries & Remote Sensing (Ch 6 & 7)	G
November	20	Ch. 6, 7. Contd.. Use of Weather Instruments (Ch 8)	H
December	18	Ch. 8. Contd.	I
January	21	02.01.2020 To 10.01.2020	PT-3
		Revision	J
February	23	03.02.2020 To 12.01.2020	Revision
		14.02.2020 to 27.02.2020	Annual Exam
March	23	-----	

**Portion for P.T.-1 – Sl. No. : A, B, C**

**Portion for Half Yearly Exam – Sl. No. : A, B, C, D, E**

**Portion for P.T.-3 – Sl. No. : F, G, H, I &**

**Some significant portion from Half Yearly (Sl. No. A To E)**

**Portion for Annual Exam – A to J (Entire Syllabus) As per CBSE Curriculum**

## SUBJECT - PHYSICAL EDUCATION/GAMES

MONTH	W.D.	PORTION TO BE TAUGHT	
April	21	Line formation, Free hand exercises in all the games period football, Throw Ball Hand Ball (Boys / Girls)	A
May	10	March Past, Table Tennis, Football, Yoga	B
June	10	Chess, Football Table Tennis, March Past (Boys / Girls)	C
		27.06.2019	PT-1
		28.06.2019	Revision
July	24	01.07.2019 To 03.07.2019	Revision
		04.07.2019 To 10.07.2019	PT-1
		Carrom, Chess, Kho Kho, Volley Ball, March Past, Yoga (Boys / Girls)	D
August	19	Volley Ball, Basketball, Badminton (Boys / Girls)	E
September	12	02.09.2019 To 16.09.2019	Half Yearly Exam
		17.09.2019 To 19.09.2019	NI
		Yoga, March Past, Badminton	F
October	14	Volley Ball, Kho Kho, Badminton, Kabaddi, March Past (Boys / Girls)	G
November	20	Sports Practice Track & Field Event	H
December	18	Sports Practice / Annual Sports	I
January	21	02.01.2020 To 10.01.2020	PT-3
		Basketball, Cricket, Throw Ball, Badminton (Boys / Girls)	J
February	23	03.02.2020 To 12.01.2020	Revision
		14.02.2020 to 27.02.2020	Annual Exam
March	23	-----	

## SUBJECT - GENERAL STUDIES

MONTH	W.D.	PORTION TO BE TAUGHT
April	21	Unit I. Science and Technology
May	10	Contd... Unit I.
June	10	Unit II. Understanding Social Structure
July	24	Contd... Unit II.
August	19	Unit III. Protection of Environment
September	12	Contd... Unit III.
October	14	Unit IV. National Unity
November	20	Contd... Unit IV.
December	18	Unit V. International Understanding
January	21	Contd... Unit V.
February	23	-----
March	23	-----

## SUBJECT - WORK EDUCATION (PAINTING)

**Text Book :** RUPA PENCIL DRAWING (Book No. - 7)  
Asha Book Agency, Artist - Partha Protim Biswas

MONTH	W.D.	PORTION TO BE TAUGHT	
April	21	Page No. 1 - 9	A
May	10	Page No. 10 - 14	B
June	10	Page No. 15 - 18	C
		27.06.2019	PT-1
		28.06.2019	Revision
July	24	01.07.2019 To 03.07.2019	Revision
		04.07.2019 To 10.07.2019	PT-1
		Page No. 19 - 27	D
August	19	Page No. 28 - 35	E
September	12	02.09.2019 To 16.09.2019	Half Yearly Exam
		17.09.2019 To 19.09.2019	NI
		Revision	F
October	14	Page No. 36 - 41	G
November	20	Page No. 42 - 49	H
December	18	Page No. 50 - 58	I
		02.01.2020 To 10.01.2020	PT-3
January	21	Revision	J
February	23	03.02.2020 To 12.01.2020	Revision
		14.02.2020 to 27.02.2020	<b>Annual Exam</b>
March	23	-----	

**Portion for P.T.-1 – Sl. No. : A, B, C**  
**Portion for Half Yearly Exam – Sl. No. : A, B, C, D, E**  
**Portion for P.T.-3 – Sl. No. : F, G, H, I, and**  
**Some significant portion from Term 1 (Sl. No. A To E)**  
**Portion for Annual Exam – A to I (Entire Syllabus)**