केंद्रीय विद्यालय संगठन

KENDRIYA VIDYALAYA SANGATHAN

गुवाहाटी संभाग / GUWAHATI REGION
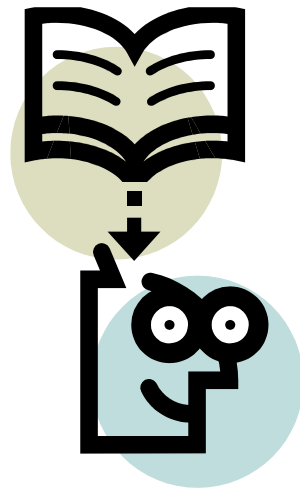

पाठ्यक्रम-विभाजन

उच्च-माध्यमिक अनुभाग

(कक्षा 11 से 12 तक)

सत्र: 2019-20

SPILIT-UP SYLLABUS

(Class 11 to 12)

SESSION: 2019-20

KENDRIYA VIDYALAYA SANGATHAN GUWAHATI REGION
SPLIT OF SYLLABUS (2019-20)
CLASS -XI
SUB: SENGLISH CORE

SL. No.	Month	Name and Details of Lesson	Details of Chapters	No. of Periods	Period of Class Room Teaching	Tentative No. of working days/Periods
1	JUNE-JULY	Hornbill (Text Book)Prose/Poem	L.1.The portrait of a lady	3	30	36
			P.1. A Photograph	2		
			P.2 The Laburnum Top	2		
		Snapshot (supplementary book)	L.1 The summer of the beautiful horse	4		
		Reading and Writing Skills	Reading comprehension	3		
			Notice	3		
			Article writing(visual and verbal inputs)	4		
		Grammar	Determiners	2		
			Fill-ups, error correction & omission	3		
		ASL	Listening task 1&2	4		
2	AUGUST	Hornbill (Text Book)Prose/Poem	L.2 We're not afraid to die	3	22	23
			L-3 Discovering Tut	3		
		Snapshot (supplementary book)	L-2The Address	3		
		Reading and Writing Skills	Poster(Social issues general awareness, commercial issues)	2		
			Advertisements(Classified and Display-To- let, For-sale ,matrimonial, obituary, Situation vacant etc)	3		
			Note making and summarizing	3		
		Grammar	Time reference (tenses)	3		
			Modals			
		ASL	Listening Task	2		
3	SEPTEMBER	Hornbill (Text Book)Prose/Poem	L.4.Landscape of the soul	4	20	22
		Snapshot (supplementary book)	L.3 Ranga's marriage	4		
		Reading and Writing Skills	Letter Writing: Buiseness & Official letters (letters for enquiry,information,complaints)	6		
		Grammar	Voice	3		
		ASL	Speaking & listening skills)	3		

4	OCTOBER	Hornbill (Text Book)Prose/Poem	L.5.The ailing planet	3	16	17
			P.3.The voice of the rain	2		
		Snapshot (supplementary book)	L.4.Albert Einstein at school	3		
		Reading and Writing Skills	Report Writing	3		
			Letter to the editor	2		
		Grammar	Rearranging jumbled words and phrases	1		
		ASL	Speaking skill, problem solving task	2		
5	NOVEMBER	Hornbill (Text Book)Prose/Poem	L.6. The Browning Version	4	21	24
			P.4. Childhood	2		
		Snapshot (supplementary book)	L.5 Mother's Day	7		
		Reading and Writing Skills	Application for a job	2		
		Grammar	Editing	3		
		ASL	Assessment of ASL for Half Yearly	3		
6	DECEMBER	Hornbill (Text Book)Prose/Poem	L.7. The Adventure	4	15	17
		Snapshot (supplementary book)	L.6. The Ghat of the only world	4		
		Reading and Writing Skills	Speech writing &factual description	3		
		Grammar	Error correction	2		
		ASL	Full practice of ASL	2		
7	JANUARY	Hornbill (Text Book)Prose/Poem	L8.Silk Road	3	11	14
		Snapshot (supplementary book)	L.7 Birth	3		
		Reading and Writing Skills	Process of creative writing	2		
		Grammar	Grammar revision	2		
		ASL	Assessment of (ASL) for session ending exam	1		
8	FEBRUARY	Hornbill (Text Book)Prose/Poem	P.5.Father to Son	2	22	22
		Snapshot (supplementary book)	P.8 The tale of melon city	2		
		Reading and Writing Skills	Letters of placing order and sending replies	3		
			Letter of cancellation			
			Revision	15		

KENDRIYA VIDYALAYA SANGATHAN, GUWAHATI REGION
SPLIT-UP SYLLABUS (2019-20)
CLASS –XI   SUBJECT - PHYSICS (THEORY & PRACTICAL)

MONTH	W. Day	UNIT & CHAPTER	MARKS	WEIGH-TAGE	PERIODS ALLOTED		PRACTICAL	EXAM (UNIT) TENTATIVE DATE
JUNE	10	UNIT-1 Physical World and Measurement,Chapter–1: Physical World,Chapter–2: Units and Measurements	23	03	10	10	1. To measure diameter of a small spherical/cylindrical body and to measure internal diameter and depth of a given beaker/calorimeter using Vernier Callipers and hence find its volume.	
JULY	16	UNIT-2 Kinematics,Chapter–3: Motion in a Straight Line,Chapter–4: Motion in a Plane		10	24	24	2. To measure diameter of a given wire and thickness of a given sheet using screw gauge. 3. To determine volume of an irregular lamina using screw gauge.	
	10	UNIT-3 Laws of Motion,-Chapter–5: Laws of Motion		10	14	14	4. To determine radius of curvature of a given spherical surface by a spherometer.	
AUG	24	UNIT-4 Work, Energy and Power,Chapter–6: Work, Energy and Power	17	6	12	12	6. To find the weight of a given body using parallelogram law of vectors. 7. Using a simple pendulum, plot its L-T2 graph and use it to find the effective length of second's pendulum.	1 UT IN AUGUST (SYLLABUS UPTO UNIT- 3)
SEPT	22	UNIT-5, Motion of System of Particles and Rigid Body, Chapter–7: System of Particles and Rotational Motion		6	18	18	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.	
		UNIT-6: Gravitation (CHP-8)		05	06	12	9 To find the force constant of a helical spring by plotting a graph between load and extension.	
OCT	12	UNIT-6: Gravitation (CHP-8) CONTD.			6		10. To study the variation in volume with pressure for a sample of air at constant temperature by plotting graphs between P and V, and between P and 1/V.	
	6	UNIT 7.Properties of Bulk Matter	20	10	10	24	11. To determine the surface tension of water by capillary rise method.	HALF YEARLY IN OCTOBER 2019 (PRACTICAL) 2ND WEEK OF NOV 2019 HALF YEARLY (THEORY) (UNIT 1 TO 6) 3RD WEEK OF NOV 2019
NOV	24	**Contd...**Properties of Bulk Matter **Revision ....** **(Half Yearly Syllabus)**			14		12. To study the relationship between the temperature of a hot body and time by plotting a cooling curve.	
DEC	17	UNIT 8. Thermodynamics		6	12	12	13. To study the relation between frequency and length of a given wire under constant tension using sonometer.	
		UNIT 9.Behaviour of Perfect Gas & Kinetic Theory of gases		4	8	8	14.. To study the relation between the length of a given wire and tension for constant frequency using sonometer.	
JAN	18	UNIT 10.Oscillations Chapter–14: Oscillations	10	5	18	26	15. To find the speed of sound in air at room temperature using a resonance tube by two resonance positions.	PT-2 IN JANUARY 2020 (UNIT-7 TO 9)
FEB 10TH	8	Chapter–15: Waves		5	08		**SESSION ENDING (PRACTICAL) FROM 2ND WEEK OF FEB 2012**	
		TOTAL	**70**	70	160		SESSION ENDING (THEORY) FROM 1ST WEEK OF MARCH 2020	

KENDRIYA VIDYALAYA SANGATHAN GUWAHATI REGION
SPLIT UP SYLLABUS (2019-20)
SUBJECT- BIOLOGY
CLASS-XI

S.N.	UNIT	TOPICS	PERIODS ALLOTTED	MONTH
1	Diversity of Living Organisms	**The Living World :**What is living? Biodiversity; Need for classification; three domains of life; taxonomy and systematics; concept of species and taxonomical hierarchy; binomial nomenclature; tools for study of taxonomy-museums, zoological parks, herbaria, botanical gardens**.**	4	JUNE=24 PDS
		Biological Classification: Five kingdom classification; Salient features and classification of Monera, Protista and Fungi into major groups: Lichens, Viruses and Viroids.	5	
		Plant Kingdom: Salient features and classification of plants into major groups - Algae, Bryophyta, Pteridophyta, Gymnospermae and Angiospermae (three to five salient and distinguishing features and at least two examples of each category); Angiosperms - classification upto class, characteristic features and examples.	8	
		Animal Kingdom : Salient features and classification of animals non-chordates up to phyla level and chordates up to class level (three to five salient features and at least two examples of each category). (No live animals or specimen should be displayed.)	8	
2	Structural Organisation in Plants and Animals	**Morphology of Flowering Plants :** Morphology and modifications:Morphoogy of of different parts of flowering plants: root, stem, leaf, inflorescence, flower, fruit and seed (to be dealt along with the relevant experiment of the Practical Syllabus).	9	JULY = (26 PDS)
		Anatomy of Flowering Plants : Anatomy and functionsof different Tissue systems	9	
		Structural Organisation in Animals : Animal tissues: Morphology, anatomy and functions of different systems (digestive, circulatory, respiratory, nervous and reproductive) of an insect (cockroach). (a brief account only)	8	

3	Cell: Structure and Function	**Cell-The Unit of Life:** Cell theory and cell as the basic unit of life: Structure of prokaryotic and eukaryotic cells; Plant cell and animal cell; cell envelope; cell membrane, cell wall; cell organelles - structure and function; endomembrane system, endoplasmic reticulum, Golgi bodies, lysosomes, vacuoles; mitochondria, ribosomes, plastids, microbodies; cytoskeleton, cilia, flagella, centrioles (ultrastructure and function); nucleus, nuclear membrane, chromatin, nucleolus.	10	AUGUST 24+SEPT 11 =35
		Biomolecules : Chemical constituents of living cells: biomolecules, structure and function of proteins, carbohydrates, lipids, nucleic acids, enzymes, types, properties, enzyme action.	15	
		Cell Cycle and Cell Division : Cell cycle, mitosis, meiosis and their significance	10	
4	Plant Physiology	**Transport in Plants :** Movement of water, gases and nutrients; cell to cell transport, Diffusion, facilitated diffusion, active transport; plant-water relations, Imbibition, water potential, osmosis, plasmolysis; long distance transport of water - Absorption, apoplast, symplast, transpiration pull, root pressure and guttation; transpiration, opening and closing of stomata; Uptake and translocation of mineral nutrients - Transport of food, phloem transport, massflow hypothesis; diffusion of gases.	8	SEPT 10 +OCT 18 + NOV 12 = 40
		Mineral Nutrition : Essential minerals, macro- and micronutrients and their role; deficiency symptoms; mineral toxicity; elementary idea of hydroponics as a method to study mineral nutrition; nitrogen metabolism, nitrogen cycle, biological nitrogen fixation.	6	
		Photosynthesis in Higher Plants : Photosynthesis as a mean of autotrophic nutrition; site of photosynthesis, pigments involved in photosynthesis (elementary idea); photochemical and biosynthetic phases of photosynthesis; cyclic and non cyclic photophosphorylation; chemiosmotic hypothesis; photorespiration; C3 and C4 pathways; factors affecting photosynthesis.	10	
		Respiration in Plants : Exchange of gases; cellular respiration - glycolysis, fermentation (anaerobic), TCA cycle and electron transport system (aerobic); energy relations - number of ATP molecules generated; amphibolic pathways; respiratory quotient.	10	
		Plant - Growth and Development : Seed germination; phases of plant growth and plant growth rate; conditions of growth; differentiation, dedifferentiation and redifferentiation; sequence of developmental processes in a plant cell; growth regulators - auxin, gibberellin, cytokinin, ethylene, ABA; seed dormancy; vernalisation; photoperiodism.	6	

5	Human Physiology	**Digestion and Absorption :** Alimentary canal and digestive glands, role of digestive enzymes and gastrointestinal hormones; Peristalsis, digestion, absorption and assimilation of proteins, carbohydrates and fats; calorific values of proteins, carbohydrates and fats; egestion; nutritional and digestive disorders - PEM, indigestion, constipation, vomiting, jaundice, diarrhoea.	8	NOV , DEC AND JAN
		Breathing and Exchange of Gases : Respiratory organs in animals (recall only); Respiratory system in humans; mechanism of breathing and its regulation in humans - exchange of gases, transport of gases and regulation of respiration, respiratory volume; disorders related to respiration - asthma, emphysema, occupational respiratory disorders.	8	
		Body Fluids and Circulation: Composition of blood, blood groups, coagulation of blood; composition of lymph and its function; human circulatory system - Structure of human heart and blood vessels; cardiac cycle, cardiac output, ECG; double circulation; regulation of cardiac activity; disorders of circulatory system - hypertension, coronary artery disease, angina pectoris, heart failure.	8	
		Excretory Products and Their Elimination : Modes of excretion - ammonotelism, ureotelism, uricotelism; human excretory system - structure and function; urine formation, osmoregulation; regulation of kidney function - renin - angiotensin, atrial natriuretic factor, ADH and diabetes insipidus; role of other organs in excretion; disorders - uraemia, renal failure, renal calculi, nephritis; dialysis and artificial kidney.	6	
		Locomotion and Movement : Types of movement - ciliary, flagellar, muscular; skeletal muscle- contractile proteins and muscle contraction; skeletal system and its functions; joints; disorders of muscular and skeletal system - myasthenia gravis, tetany, muscular dystrophy, arthritis, osteoporosis, gout.	6	
		Neural Control and Coordination: Neuron and nerves; Nervous system in humans - central nervous system; peripheral nervous system and visceral nervous system; generation and conduction of nerve impulse; reflex action; sensory perception; sense organs; elementary structure and functions of eye and ear**.**	10	
		Chemical Coordination and Integration : Endocrine glands and hormones; human endocrine system - hypothalamus, pituitary, pineal, thyroid, parathyroid, adrenal, pancreas, gonads; mechanism of hormone action (elementary idea); role of hormones as messengers and regulators, hypo - and hyperactivity and related disorders; dwarfism, acromegaly, cretinism, goiter, exophthalmic goiter, diabetes, Addison's disease.	5	
		REVISION OF ENTIRE SYLLABUS AND DIFFICULT TOPICS		FEB

KENDRIYA VIDYALAYA SANGATHAN, GUWAHATI REGION
SPLIT-UP SYLLABUS
SUB: CHEMISTRY
CLASS XI

Sl. No.	Month	Unit	Distribution of syllabus (Name of unit and detailed Split up)	No. of Pds/Days
1	JUNE	I	**Some Basic Concepts of Chemistry:** General Introduction: Importance and scope of chemistry.Nature of matter, laws of chemical combination, Dalton's atomic theory: concept of elements,atoms and molecules.Atomic and molecular masses, mole concept and molar mass, percentage composition, empirical and molecular formula, chemical reactions, stoichiometry and calculations based on stoichiometry.	**10**
2	JULY	II	**Structure of Atom** : Bohr's model and its limitations, concept of shells and subshells, dual nature of matter and light, de Broglie's relationship,Heisenberg uncertainty principle, concept of orbitals, quantum numbers, shapes of s, p and dorbitals, rules for filling electrons in orbitals - Aufbau principle, Pauli's exclusion principle and Hund's rule, electronic configuration of atoms, stability of half filled and completely filled orbitals.	**14**
3	JULY	III	**Classification of Elements and Periodicity in Properties :** Modern periodic law and the present form of periodic table, periodic trends in properties of elements -atomic radii, ionic radii, inert gas radii, Ionization enthalpy, electron gain enthalpy, electronegativity,valency. Nomenclature of elements with atomic number greater than 100.	**6**
4	JULY-AUG	IV	**Chemical Bonding and Molecular structure :** Valence electrons, ionic bond, covalent bond, bond parameters, Lewis structure, polar character of covalent bond, covalent character of ionic bond, valence bond theory, resonance, geometry of covalent molecules, VSEPR theory, concept of hybridization, involving s,p and d orbitals and shapes of some simple molecules, molecular orbital theory of homonuclear diatomic molecules(qualitative idea only), hydrogen bond.	**14**
			1st Periodic Test	
5	AUGUST	V	**States of Matte**r: Gases and Liquids Three states of matter, intermolecular interactions, types of bonding, melting and boiling points,role of gas laws in elucidating the concept of the molecule, Boyle's law, Charles law, Gay Lussac's law, Avogadro's law, ideal behaviour, empirical derivation of gas equation, Avogadro's number,ideal gas equation.Deviation from ideal behaviour, liquefaction of gases, critical temperature,kinetic energy and molecular speeds (elementary idea), Liquid State- vapour pressure, viscosityand surface tension (qualitative idea only, no mathematical derivations)	**12**

6	AUGUST - SEPT	VI	**Chemical Thermodynamics** Concepts of System and types of systems, surroundings, work, heat, energy, extensive and intensive properties, state functions.First law of thermodynamics -internal energy and enthalpy, heat capacity and specific heat, measurement of U and H, Hess's law of constant heat summation, enthalpy of bond dissociation, combustion, formation, atomization, sublimation, phase transition, ionization, solution and dilution. Second law of Thermodynamics (brief introduction) Introduction of entropy as a state function, Gibb's energy change for spontaneous and nonspontaneous processes, criteria for equilibrium.Third law of thermodynamics (brief introduction).	13
7	SEPT	VII	**Equilibrium :** Equilibrium in physical and chemical processes, dynamic nature of equilibrium, law of mass action, equilibrium constant, factors affecting equilibrium - Le Chatelier's principle, ionic equilibrium- ionization of acids and bases, strong and weak electrolytes, degree of ionization,ionization of poly basic acids, acid strength, concept of pH, Henderson Equation, hydrolysis of salts (elementary idea), buffer solution, solubility product, common ion effect (with illustrative examples).	12
8			MID TERM EXAM	
9	NOV	VIII	**Redox Reactions :** Concept of oxidation and reduction, redox reactions, oxidation number, balancing redox reactions, in terms of loss and gain of electrons and change in oxidation number, applications of redox reactions.	4
10	NOV	IX	**Hydrogen :** Position of hydrogen in periodic table, occurrence, isotopes, preparation, properties and uses of hydrogen, hydrides-ionic covalent and interstitial; physical and chemical properties of water,heavy water, hydrogen peroxide - preparation, reactions and structure and use; hydrogen as a fuel.	6
11	NOV	X	**S-Block Elements (Alkali and Alkaline Earth Metals)** : Group 1 and Group 2 Elements , General introduction, electronic configuration, occurrence, anomalous properties of the first element of each group, diagonal relationship, trends in the variation of properties (such as ionization enthalpy, atomic and ionic radii), trends in chemical reactivity with oxygen, water,hydrogen and halogens, uses. Preparation and Properties of Some Important Compounds : Sodium Carbonate, Sodium Chloride, Sodium Hydroxide and Sodium Hydrogencarbonate, Biological importance of Sodium and Potassium. Calcium Oxide and Calcium Carbonate and their industrial uses, biological importance of Magnesium and Calcium.	6

12	NOV	XI	**Some p -Block Elements** :General Introduction to p -Block Elements Group 13 Elements: General introduction, electronic configuration, occurrence, variation of properties, oxidation states, trends in chemical reactivity, anomalous properties of first elementof the group, Boron - physical and chemical properties, some important compounds, Borax, Boric acid, Boron Hydrides, Aluminium: Reactions with acids and alkalies, uses.Group 14 Elements: General introduction, electronic configuration, occurrence, variation of properties, oxidation states, trends in chemical reactivity, anomalous behaviour of first elements. Carbon-catenation, allotropic forms, physical and chemical properties; uses of someimportant compounds: oxides. Important compounds of Silicon and a few uses: Silicon Tetrachloride, Silicones, Silicates and Zeolites, their uses.	**8**
13	DEC	XII	**Organic Chemistry -Some Basic Principles and Technique** .General introduction, methods of purification, qualitative and quantitative analysis,classification and IUPAC nomenclature of organic compounds. Electronic displacements in a covalent bond: inductive effect, electromeric effect, resonance and hyper conjugation.Homolytic and heterolytic fission of a covalent bond: free radicals, carbocations, carbanions,electrophiles and nucleophiles, types of organic reactions.	**12**
14	DEC - JAN	XIII	**Hydrocarbons** : Classification of HydrocarbonsAliphatic Hydrocarbons:Alkanes - Nomenclature, isomerism, conformation (ethane only), physical properties, chemical reactions including free radical mechanism of halogenation, combustion and pyrolysis.Alkenes - Nomenclature, structure of double bond (ethene), geometrical isomerism, physicalproperties, methods of preparation, chemical reactions: addition of hydrogen, halogen, water,hydrogen halides (Markownikov's addition and peroxide effect), ozonolysis, oxidation, mechanism of electrophilic addition.Alkynes - Nomenclature, structure of triple bond (ethyne), physical properties, methods of preparation, chemical reactions: acidic character of alkynes, addition reaction of - hydrogen,halogens, hydrogen halides and water. Aromatic Hydrocarbons: Introduction, IUPAC nomenclature, benzene: resonance, aromaticity,chemical properties: mechanism of electrophilic substitution. Nitration, sulphonation,halogenation, Friedel Craft's alkylation and acylation, directive influence of functional group in monosubstituted benzene. Carcinogenicity and toxicity.	**12**
15	JAN	XIV	Environmental Chemistry Environmental pollution - air, water and soil pollution, chemical reactions in atmosphere, smog,major atmospheric pollutants, acid rain, ozone and its reactions, effects of depletion of ozone layer, greenhouse effect and global warming- pollution due to industrial wastes, green chemistry as an alternative tool for reducing pollution, strategies for control of environmental pollution.	**6**

Note: Total periods/days alloted as per possible working days during academic session

KENDRIYA VIDYALAYA SANGTHAN GUWAHATI REGION
SPLIT-UP SYLLABUS
SESSION 2019-20
SUBJECT: MATHEMATICS
CLASS - XI

S.No.	CHAPTERS	MONTHS	TENTATIVE No OF PERIODS REQUIRED	TENTATIVE NO. OF WORKING DAYS
1	Sets	JUNE/JULY	45	10+26=36
2	Relations & Functions			
3	Trigonometric Functions			
4	Principle of Mathematical Induction	AUGUST	30	23
5	Complex Numbers and Quadratic Equations			
6	Linear Inequalities			
7	Permutations and Combinations	SEPTEMBER	30	22
8	Binomial Theorem			
9	Sequence and Series	SEP/OCTOBER	15	17
	HALF YEARLY			
10	Straight Lines	NOVEMBER	32	24
11	Conic Sections			
12	Introduction to Three-dimensional Geometry	DECEMBER	22	17
13	Limits and Derivatives			
14	Mathematical Reasoning			
15	Statistics	JANUARY	15	13
16	Probability	FEBRUARY	15	23
	Revision			
	Conduct of Practical Exam for Internal Assessment			

KENDRIYA VIDYALAYA SANGATHAN, GUWAHATI REGION
SPLIT –UP SYLLABUS
SUBJECT: BIOTECH
CLASS: XI
SESSION: 2019-2020

Sl No	Month	UNIT	No Of Periods	Chapter	Periods Alloted	Marks Alloted	Practicals
1	June July	Biotechnology An Overview	20	Biotechnology-An Overview	20	5	1. Recording practical results and safety rules in the laboratory
2	July August	Molecules of Life	50	Biomolecules-Building Blocks	25	20	2. Preparation of buffers and pH determination
	August September			Macromolecules-Structure and Function	25		3. Isolation of Milk Protein
3	September October	Genetics and Moleculer Biology	50	Concepts of Genetics	25	20	4. Preparation of bacterial growth medium
	November			Genes and Genomes structure and Function	25		5. Determination of bacterial growth curve
4	November December	Cells and Organisms	60	Basic Unit of Life	30	25	
	January February			Cell Growth and Development	30		

KENDRIYA VIDYALAYA SANGATHAN, GUWAHATI REGION

SPLIT-UP SYLLABUS
SUB: COMPUTER SCIENCE (083)
CLASS - XI (NEW SYLLABUS)
Session 2019-20

DISTRIBUTION OF MARKS

UNIT	UNIT NAME	MARKS
1	Computer System and Organization	10
2	Programming and Computational Thinking	35
3	Data Management	15
4	Society, Law and Ethics	10
5	Practicals	30
	TOTAL	100

MONTH- WISE DISTRIBUTION

Month	Topics to be covered	Th.	Pr.
June-July	• Unit 1: Computer Systems and Organization Basic computer organisation: description of a computer system and mobile system, CPU, memory, hard disk, I/O, battery. • Types of software: application, System, utility. • Memory Units: bit, byte, MB, GB, TB, and PB. • Boolean logic: OR, AND, NAND, NOR, XOR, NOT, truth tables, De Morgan's laws • Information representation: numbers in base 2, 8, 16, binary addition • Strings: ASCII, UTF8, UTF32, ISCII (Indian script code), Unicode • Basic concepts of Flowchart • Concept of Compiler & Interpreter • Running a program: Notion of an operating system, how an operating system uns a program, idea of loading, operating system as a resource manager. • Concept of cloud computing, cloud (public/private), introduction to parallel computing.	30	25
August	**Unit 2: Computational Thinking and Programming** • Basics of Computational Thinking: Decomposition, Pattern Recognition/ Data representation, Generalization/ Data Abstraction and algorithm. • Familiarization with the basics of Python programming: a simple "hello world" program, process of writing a program (Interactive & Script mode), running it, and print statements; simple data-types: integer, float, string • Features of Python, Python Character Set, Token & Identifiers, Keywords, • Literals, Delimiters, operators. • Comments: (Single line & Multiline/ Continuation statements), Clarity & • Simplification of expression. • Introduce the notion of a variable, and methods to manipulate it (concept of Lvalue and R-value even if not taught explicitly). • Knowledge of data types and operators: accepting input from the console, assignment statement, expressions, operators and their precedence. • Operators & types: Binary operators-Arithmetic, Relational operators, Logical Operators, Augmented Assignment operators.	25	25

September	• Conditional statements: if, if-else, if-elif-else; simple programs: e.g.: absolute value, sort 3 numbers, and divisibility. • Notion of iterative computation and control flow: for(range(),len()), while, flowcharts, suggested programs: interest calculation and factorials, etc. • Idea of debugging: errors and exceptions; debugging: pdb, break points.	25	20
	HALF YEARLY EXAMINATION		
October	• Lists, tuples and dictionary: finding the maximum, minimum, mean; linear search on list/tuple of numbers, and counting the frequency of elements in a list using a dictionary. Introduce the notion of accessing elements in a collection using numbers and names.	10	06
November	• Sorting algorithm: bubble and insertion sort;count the number of operations while sorting. • Strings: Traversing, compare, concat, substring. • Introduction to Python modules: Importing math (sqrt, cell, floor, pow, fabs, sin, cos, tan, random (random, randint, randrange), statistics (mean, median, mode) modules.	20	10
December	**Unit 3: Data Management** • 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. • 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-FROMWHERE-ORDER BY along with BETWEEN, IN, LIKE, (Queries only on single table) • Aggregate functions – MIN,MAX,AVG,COUNT,SUM • Basics of NoSQL databases.	30	24
January	**UNIT 4: Society , Law and Ethics - Cyber Safety** • Cyber safety: safely browsing the web, identity protection, confidentiality, social networks, cyber trollsand bullying • Appropriate usage of social networks: spread of rumours, and common social networking sites (Twitter, LinkedIn, and Facebook) and specific usage rules. • Safely accessing web sites: adware, malware, viruses, Trojans • Safely communicating data: secure connections, eavesdropping, phishing and identity verification.	10	
Feb	Revision, Project Work , Session Ending Practical Examination		

PRACTICAL WORK
CLASS – XI : COMPUTER SCIENCE (083)

DISTRIBUTION OF MARKS

S.No.	UNIT NAME	MARKS
1	**Lab Test (12 marks)**	
	Python programs to test PCT (60% logic + 20% documentation +20% code quality)	8
	SQL program (at least 4 queries)	4
2	**Report File + viva (10 marks)**	
	Report file: Minimum 20 Python programs (PCT + DH) and at least 8 SQL commands.	7
	Viva voce (based on the report file)	3
3	**Project Work (that uses most of the concepts that have been learnt)** **Project may be allotted to group of 2-3 students.**	8

KENDRIYA VIDYALAYA SANGATHAN, GUWAHATI REGION
SPLIT - UP SYLLABUS (2019-20)
CLASS –XI
SUBJECT - ACCOUNTANCY

Month	Tentative Working days	Unit and Chapter	Period allotted
PART A : Financial Accounting -I			
June	10	**UNIT - I :** Theoretical Framework Introduction to Accounting	11
July	26	Theory base of Accounting	14
		UNIT – II : Accounting process: Recording of transactions (up to journal)	30
August	23	Recording of transactions (till subsidiary books up to 15th Aug)	
		Bank reconciliation statement Preparation of Ledger	20
September	22	Preparation Trial balance.	
		Depreciation ,Provision and reserve	20
October	17	Bills of Exchange	20
		Rectification of Errors	15
PART B : Financial Accounting -II			
November	24	**UNIT - III** : Financial statement of sole proprietorship with Complete record (without adjustment) up to 20th Nov	60
December+ January	17+14	Financial statement of sole proprietorship with Complete record (with adjustment) and Incomplete Record(Single entry system)	
February	24	Computers In accounting and revision work	20
		Project work as Per CBSE guidelines	30
March	----	Revision work and SESSION ENDING EXAM	
Total			240

** Working Days are Tentative

SYLLABUS FOR PERIODIC TEST/ HY & SE EXAM

(CLASS –XI : SUBJECT – ACCOUNTANCY)

SL.NO.	NAME OF THE EXAM.	TOPICS TO BE COVERED	WEIGHTAGE OF MARKS
1	PERIODIC TEST-I	1.Introduction to Accounting 2.Theory base of Accounting	50
		3 .Recording of Business Transactions	
2	HALF YEARLY EXAM	1.Introduction to Accounting 2.Theory base of Accounting	80
		3 .Recording of Business Transactions.	
		4. Bank Reconciliation Statement	
		5.Depreciation, Provision and Reserves	
		6.Trial Balance	
3	PERIODIC TEST-II	1.Accounting for Bills of Exchange 2.Rectification of Errors 3.Financial Statements of Sole Proprietorship.(Without adjustments)	50
4	SESSION ENDING EXAM	All Units/Chapters as per Split Up Syllabus and Marks Distribution of CBSE	80

KENDRIYA VIDAYALAYA SANGATHAN, GUWAHATI REGION
SPLIT-UP SYLLABUS
SESSION 2019-20
CLASS – XI
SUBJECT- BUSINESS STUDIES

SL. NO.	MONTH	WORKING DAYS**	CHAPTERS TO BE COVERED	PERIODS REQUIRED
1	June & July	36	1. Nature and Purpose of Business 2. Forms of Business Organizations	22 26
2	August	23	3. Public, Private and Global Enterprises	22
3	September	22	4. Business Services 5. Emerging Modes of Business	34
4	October	17	6. Social Responsibility of Business and Business Ethics 7. Sources of Business Finance(contd.)	16
5	November	24	7. Sources of Business Finance	30
6	December	17	8. Small Business	16
7	January	14	9. Internal Trade 10. International Business (TO BE CONTINUED)	30 06
8	February	24	10. International Business PROJECT WORK AND REVISION.	08
PROJECT WORK				
9	March	-----	Revision and Session Ending Exam	TOTAL SYLLABUS

** Working days are tentative

SYLLABUS FOR PERIODIC TEST/ HY & SE EXAM

(CLASS –XI: SUBJECT – BUSINESS STUDIES)

SL.NO.	NAME OF THE EXAM.	TOPICS TO BE COVERED	WEIGHTAGE OF MARKS
1	PERIODIC TEST-I	1. Nature and Purpose of Business	50
		2 .Forms of Business Organizations	
2	HALF YEARLY EXAM	1. Nature and Purpose of Business	80
		2 .Forms of Business Organizations	
		3. Public, Private and Global Enterprises	
		4. Business Services	
		5 .Emerging Modes of Business	
		6 .Social Responsibility of Business and Business Ethics	
3	PERIODIC TEST-II	7. Sources of Business Finance 8 . Small Business	50
		9 .Internal Trade	
4	SESSION ENDING EXAM	All Units/Chapters as per Split Up Syllabus and Marks Distribution of CBSE	80

KENDRIYA VIDYALAYA SANGATHAN, GUWAHATI REGION

SPLIT-UP SYLLABUS

SUB: INFORMATICS PRACTICES (065)

CLASS - XI (NEW SYLLABUS)

(Session 2019-20)

DISTRIBUTION OF MARKS

UNIT	UNIT NAME	MARKS
1	Introduction of Computer System	5
2	Introductory Python Programming	30
3	Data Handling	10
4	Data Management	15
5	Society, Law and Ethics	10
6	Practicals	30
	TOTAL	100

MONTH- WISE DISTRIBUTION

Month	Topics to be covered	Th.	Pr.
June-July	**Unit 1: Introduction of Computer System** • Basic computer organisation: Computer system – I/O Devices, CPU, memory, hard disk, battery, power, transition from a calculator to a computer and further to smart devices. • Trouble shooting with parts of computer and basic operations of operating system • Basic concept of Data representation: Binary, ASCII, Unicode **Unit 2: Introduction Python Programming** • Familiarization with the basic of Python programming: a simple "hello world" program, process of writing a program, running it, and print statements; simple data-types: integer, float, string. Introduce the notion of variable, and methods to manipulate it (concept of L-value and R-value even if not taught explicitly). 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.	30	20
August	• Conditional statements: if, if-else, if-elif-else; simple programs: e.g.: absolute value, sort 3 numbers, divisibility. • Notion of iterative computation and control flow: for (range() , len()), while, flowcharts. • 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 (example from GST/Income Tax).	20	20

September	• List 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. • Text handling: compare, concat, and substring operations (without using string module).		20	20
October	**HALF YEARLY EXAMINATION**			
	• Introduction to Python modules: importing math (sqrt, ceil, floor, pow, fabs), random (random, randint, randrange), statistics (mean, median) modules.		10	05
Nov	**Unit 3: Data Handling** • Numpy 1D array, 2D array Arrays: slices, joins, and subsets. Arithmetic operations on 2D arrays.		20	15
December	**Unit 4: Data Management** • 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. • 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) • Aggregate Functions : MIN , MAX, AVG, COUNT, SUM		30	20
January	**Unit 5: Society, Law and Ethics** • Cyber safety: safely browsing the web, identity protection, confidentiality, social networks, netiquettes, digital footprint, cyber trolls and bullying. Appropriate usage of social networks: spread of rumours, and common social networking sites (Twitter, LinkedIn, and Facebook) and specific usage rules. • Safely accessing web sites: adware, malware, viruses, Trojans.Safely communicating data: secure connections, eavesdropping, and phishing and identity verification.		10	
Feb.	**Revision, Project Work , Session Ending Practical Examination**			

PRACTICAL WORK
CLASS – XI : INFORMATICS PRACTICES (065)
DISTRIBUTION OF MARKS

S.No.	UNIT NAME	MARKS
1	**Lab Test (15 marks)**	
	Problem solving using Arithmetic operators, conditional statement & Iteration using Python (60% logic + 20% documentation +20% code quality)	6
	Problem solving using NumPy	4
	SQL program (at least 5 queries)	5
2	**Report File + viva (10 marks)**	
	Report file: Minimum 20 Python programs (PCT + DH) and at least 20 SQL queries	6
	Viva voce (based on the report file)	4
3	**Project Work (that uses most of the concepts that have been learnt)**	5

KENDRIYA VIDYALAYA SANGATHAN, GUWAHATI REGION
SPLIT –UP SYLLABUS (TERM-I)
SESSION: 2019-2020
CLASS: XII
SUBJECT: POLITICAL SCIENCE

Units		Periods: 220	Marks: 100	MONTH
Part A: Indian Constitution at work				
1	Constitution: Why and How and Philosophy of the Constitution	17	12	**June**
2	Rights in the Indian Constitution	16		July
3	Election and Representation	11	10	**July**
4	The Executive	11		July
5	The Legislature	11	10	**Aug**
6	The Judiciary	11		Aug
7	Federalism	11	10	**Sept**
8	Local Governments	11		Sept
9	Constitution as a living document	11	8	**Sept**
	Total	**110**	**50**	
Part B: Political Theory				
10	Political Theory : An Introduction	10	10	**Oct**
11	Freedom	11		Oct
12	Equality	11	10	**Nov**
13	Social Justice	12		Nov
14	Rights	11	10	**Dec**
15	Citizenship	11		Dec
16	Nationalism	11	10	**Jan**
17	Secularism	11		Jan
18	Peace	11	10	**Feb**
19	Development	11		Feb
	Total	**110**	**50**	

केन्द्रीय विद्यालय गुवाहाटी संभाग

पाठ्यक्रम –विभाजन

कक्षा –11

विषय –हिन्दी (केंद्रिक)

सत्र – 2018—19

क्र.संख्या	माह	कालांश	पुस्तक	पाठ /अध्याय
01 02 03	जून	10	अपठित बोध रचनात्मक लेखन आरोह -1	अपठित गद्यांश निबंध लेखन पत्र लेखन जन संचार माध्यम कबीर के पद (पद्य) नमक का दरोगा (गद्य)
04 05 06 07	जुलाई	26	अपठित बोध रचनात्मक लेखन आरोह -1 वितान -1	अपठित पद्यांश निबंध लेखन पत्र लेखन फ़ीचर मीरा के पद (पद्य) मियाँ नसीरुद्दीन (गद्य) भारतीय गायिकाओं में बेजोड़ : लता मंगेशकर
08 09 10 11	अगस्त	23	रचनात्मक लेखन आरोह -1 वितान -1	पत्रकारिता (जनसंचार माध्यम) वे आँखें (पद्य) विदाई संभाषण (गद्य) राजस्थान की रजत बूंदें
12 13	सितंबर	22	रचनात्मक लेखन आरोह -1	जन संचार माध्यम निबंध लेखन घर की याद (पद्य) चंपा काले –काले अक्षर नहीं चीन्हती (पद्य) गलता लोहा (गद्य) स्पीती में बारिश (गद्य)
14 15 16 17	अक्तूबर	17	अपठित बोध रचनात्मक लेखन आरोह -1	अपठित (गद्य) पत्रकारिता (जनसंचार) गजल (पद्य) रजनी (गद्य) मौखिक परीक्षा (श्रवण व वाचन कौशल) मध्य सत्र –परीक्षा के लिए अभ्यास कार्य

18 19 20	नवंबर	24	रचनात्मक लेखन आरोह -1	आलेख हे भूख मत मचल (पद्य) जामुन का पेड़ (गद्य)
21 22	दिसंबर	17	आरोह -1 वितान -1	सबसे खतरनाक (पद्य) भारत माता (गद्य) आलो- आंधारि द्वितीय आवर्ती परीक्षा के लिए अभ्यास कार्य)
23 24 25 26 27	जनवरी	14	रचनात्मक लेखन आरोह -1	द्वितीय आवर्ती –परीक्षा (प्रथम सप्ताह) फ़ीचर लेखन आलेख लेखन आओ , मिलकर बचाएँ (पद्य) आत्मा का ताप (गद्य) मौखिक परीक्षा (श्रवण व वाचन कौशल) अभ्यास कार्य
28	फरवरी	24		पूर्व सत्रांत परीक्षा अभ्यास कार्य

KENDRIYA VIDYALAYA SANGATHAN, GUWAHATI REGION
SPLIT-UP SYLLABUS
SUBJECT- ECONOMICS
SESSION 2019-20
CLASS- XI

S. NO.	NAME OF THE CHAPTER	NO. OF PERIODS REQUIRED	TENTETIVE NO. OF WORKING DAYS	MONTHS
1	**Introduction**: What is Economics? Meaning, scope, functions and importance of statistics in Economics **Unit 2: Collection, Organisation and Presentation of data** **Collection of data** - sources of data - primary and secondary; how basic data iscollected, with concepts of Sampling; Sampling and Non-Sampling errors; methods of collecting data; some important sources of secondary data: Census of India and National Sample Survey Organisation. **Organisation of Data**: Meaning and types of variables; Frequency Distribution.	10	10	JUN
2	**Presentation of Data**: Tabular Presentation and Diagrammatic Presentation of Data: (i)Geometric forms (bar diagrams and pie diagrams), (ii) Frequency diagrams (histogram, polygon and ogive) and (iii) Arithmetic line graphs (time series graph). **Statistical Tools and Interpretation** (For all the numerical problems and solutions, the appropriate economic interpretation may be attempted. This means, the students need to solve the problems and provide interpretation for the results derived.) **Measures of Central Tendency**- mean (simple and weighted), median and mode	25	26	JULY
3	**Measures of Dispersion** - absolute dispersion (range, quartile deviation, mean deviation and standard deviation); relative dispersion (co-efficient of range, co-efficient of quartile-deviation,co-efficient of mean deviation, co-efficient of variation); Lorenz Curve: Meaning, construction and its application. **Introductory Microeconomics** **Introduction** Meaning of microeconomics and macroeconomics; positive and normative economics What is an economy? Central problems of an economy: what, how and for whom to produce; concepts of production possibility frontier and opportunity cost.	23	23	AUGUST

4	**Consumer's Equilibrium and Demand** Consumer's equilibrium - meaning of utility, marginal utility, law of diminishing marginal utility, conditions of consumer's equilibrium using marginal utility analysis. Indifference curve analysis of consumer's equilibrium-the consumer's budget (budget set and budget line), preferences of the consumer (indifference curve, indifference map) and conditions of consumer's equilibrium. Demand, market demand, determinants of demand, demand schedule, demand curve and its slope, movement along and shifts in the demand curve; price elasticity of demand - factors affecting price elasticity of demand; measurement of price elasticity of demand – percentage-change method.	22	22	SEPTEMBER
5	**Producer Behavior and Supply** **Meaning of Production Function** – Short-Run and Long-Run Total Product, Average Product and Marginal Product. Returns to a Factor **Cost**: Short run costs - total cost, total fixed cost, total variable cost; Average cost; Average fixed cost, average variable cost and marginal cost-meaning and their relationships.- total, average and marginal revenue - meaning and their relationship.	16	17	OCTOBER
6	**Producer's equilibrium**-meaning and its conditions in terms of marginal revenue- marginal cost. Supply, market supply, determinants of supply, supply schedule, supply curve and its slope, movements along and shifts in supply curve, price elasticity of supply; measurement of price elasticity of supply - percentage-change method. **Correlation** – meaning and properties, scatter diagram; Measures of correlation - Karl Pearson's method (two variables ungrouped data) Spearman's rank correlation.	22	24	NOVEMBER
7	**Forms of Market and Price Determination under Perfect Competition with simple application** Perfect competition - Features; Determination of market equilibrium and effects of shifts in demand and supply. Other Market Forms - monopoly, monopolistic competition, oligopoly - their meaning and features.	16	17	DECEMBER
8	**Simple Applications** of Demand and Supply: Price ceiling, price floor. **Introduction to Index Numbers** - meaning, types - wholesale price index, consumer price index and index of industrial production, uses of index numbers; Inflation and index numbers.	12	13	JANUARY
9	**Revision&Project in Economics**	15	23	FEBRUARY
10	**S.E.E.-2019-20**	-	23	MARCH

KENDRIYA VIDYALAYA SANGATHAN GUWAHATI REGION
SPLIT UP SYLLABUS
SESSION: 2019-20
Class: XI
Subject: Geography

Month	No. of working days	Unit	BOOK 1: FUNDAMENTALS OF PHYSICAL GEOGRAPHY	Unit	BOOK 2: INDIA- PHYSICAL ENVIRONMENT	No. of periods	Test/Exam
June	10	I	Geography As A Discipline 1. Geography as a discipline	I	Introduction 1. Location-India	6+5	
July	26	II Practical	The Earth: 2. The Origin and Evolution of the earth 3. Interior of the earth, 4. Distribution of Oceans and continents Map	II	Physiographic 2. Structure and physiographic	12+21 4	1st Periodic Test
August	23	III Practical	Land forms 5. Minerals and Rock 6. Geomorphic process 7. Land forms and their Evolution Map Scale		3. Drainage system	20+9 7	
September	22	IV Practical	Climate 8. Composition and structure of atmosphere 9. Solar radiation, Heat Balance and Temperature 10. Atmospheric circulation and Weather Systems Map projection Latitude, Longitude, Time			21 9	

Month	Days	Unit	Book 1: Fundamentals of Physical Geography	Unit	Book 2: India Physical Environment	Periods	Exam
October	17	**IV**	11. Water in the atmosphere, 12. World Climate			13	Half yearly exam (cumulative)
		Practical	Topographical map			9	
November	24	**V**	WATER (OCEAN) 13. Water(Oceans) 14. Movement of ocean water	**III**	Climate, Vegetation And Soil 4. Climate	11+15	2nd periodic test
		Practical	Aerial photography			7	
December	17	**VI**	LIFE ON THE EARTH 15. Life on the earth		5. Natural Vegetation	7+8	
		Practical	Introduction to remote sensing			7	
January	14		16. Bio diversity and conservation Map work		6. Soil	7	
		Practical	Weather instruments and charts			7	
February			Revision	**IV**	Natural Hazards and Disaster : Causes, Consequences and Management 7. Natural Hazards and disasters	14	
March			Session Ending Exam				Session Ending Exam

Theory (70 marks)	Practical work: (30 marks)
Book 1: Fundamentals of Physical Geography – 30 marks **Book 2: India Physical Environment – 30 marks** **Map Identification: 5 marks** **Map Location & labeling: 5 marks**	**Unit-1 : Fundamentals of maps- 10 marks** **Unit 2: Topographic and weather map- 15 marks** **Unit 3: Record and viva- 5 marks**

KENDRIYA VIDYALAYA SANGATHAN GUWAHATI REGION
SPLIT-UP SYLLABUS
Subject: History
Class: XI
SESSION: 2019-20

Parts	S.No.	Name of the chapter	Month	No. of Working days	Learning Outcome	No. of periods	Weightage of Marks	Test/Exam
Part I Early society	1	From the Beginning of Time	June	25	Early human species ,Evidences Chronological developments, Food habits, Differences, Tool, Making-art and Craft	48	15	
	2	Writing and City Life	July	26	Early city, Planning, Writing style, Evidences, Clay tablets, Texts, Early Library			
Part II Empire	3	An Empire across three continents			Roman empire, Polity, Economy, Rules and Rulers, Social life and slaves, Architecture	50	20	1st Periodic test Unit –1 and 2
	4	Central Islamic Lands	August	24	Extension of empire, Polity, Islam and its principles, Art and architecture, Islamic literature			
	5	Nomadic Empires			Extension of Nomadic Empire, Rulers, Contribution, Yasa, Ghensin Khan			
Part – III Changing Tradition	6	Three Orders	September	21	Feudal system, Manor, Society in France and England, Life of peasants	50	20	
	7	Changing Cultural Traditions			Revival of Italian cities, Humanism, Artists and realism, Universities and new subjects, Renaissance, Martin Luther protestant Movement			

	8	Confrontation of Cultures	October	18	Maya, Inca and Aztecs, Civilizations, Colonization of America by Spain			
Part- IV Towards modernization	9	The Industrial Revolution	November	20	Industrial Revolution, New machine and technology, Transport and communication, -Factory system	52	20	Half Yearly Exam. Chapters 1-7
	10	Displacing Indigenous People	December	19	Natives and settlers. Gold Rush, American Natives and Europeans, Growth of Industry, Australia			
	11	Paths to Modernization	January	24	Japan ,Political system, Meiji Restoration and Reforms, China, Republic, communist party, cultural revolution, Taiwan			2nd Periodic Test Chapters 8,9,10
	12	Revision Session Ending Exam	February March					Session Ending Examination will include entire Syllabus.
	13	Map Work(All Units)				10	5	
	14	Project Work				10	20	
		Total				220	100	

Note:-
1. 1 Value Based Question can be taken from any of the above Parts- I, II, III, IV----- 04 Marks.
2. 3 comprehension questions can be taken from any of the above Parts- I, II, III, IV.
Accordingly, teacher can reduce weightage of the corresponding sections.
3. For detailed information related to completion of Project, go through the Guidelines given by CBSE(www.cbse.nic.in)

KENDRIYA VIDYALAYA SANGATHAN GUWAHATI REGION
SPLIT UP SYLLABUS (2019-20)
SUBJECT- ENGLISH (CORE)
CLASS-XII

SL	MONTH	NAME AND DETAILS OF LESSON	DETAILS OF THE CHAPTERS	NO OF PERIODS	TENTATIVE NO OF WORKING DAYS AND PERIODS
1	APRIL-MAY	FLAMINGO (Text Book)Prose/Poem VISTAS(Supplementary Book) Reading and writing skills	L.1.The Last Lesson (Flamingo)	5	22+8=30
			P.1.My Mother at sixty six (Flamingo)	3	
			L.1 The Third Level(Vistas)	4	
			Reading comprehension passage	4	
			Notice	4	
			Advertisement	4	
			Speech writing	2	
2	JUNE	FLAMINGO (Text Book)Prose/Poem VISTAS (Supplementary Book) Reading and writing skills	L.2 Lost Spring (Flamingo)	4	10
			L.2 The Tiger King (vistas)	4	
			Drafting of poster	2	
3	JULY	FLAMINGO (Text Book)Prose/Poem VISTAS(Supplementary Book) Reading and writing skills	L.3.Deep Water. (Flamingo)	4	26
			L.4 The Rattrap (Flamingo)	5	
			P.2 An Elementary Classroom in a slum (Flamingo)	3	
			L .3.Journey to the end of the Earth(Vistas)	4	
			Recapitulation of Note Making and summarizing	3	
			Article Writing	3	
			Reading Comprehension passage	4	
4	AUGUST	FLAMINGO (Text Book)Prose/Poem VISTAS(Supplementary Book) Reading and writing	L.5.The Indigo Flamingo)	5	23
			P.3.keeping Quiet (FIamingo)	3	
			L.4 The Enemy(vistas)	7	
			L5 Should Wizard hit mommy(Vistas)	4	
			Letter of complaint		
			Letter to the Editor	2+2=4	

5	SEP	FLAMINGO (Text Book)Prose/Poem VISTAS(Supplementary Book) Reading and writing skills	L6 Poets and pancakes (Flamingo)	5	22
			P.4 A thing of beauty (Flamingo)	3	
			L.6 On the face of it (Vistas)	5	
			Report Writing	2	
			Debate	3	
			P.5 A Roadside stand (FLAMINGO)	3	
			Enquiry letter	1	
6	OCT	FLAMINGO (Text Book)Prose/Poem VISTAS(Supplementary Book) Reading and writing skills	L.7The Interview (Flamingo)	4	17
			L.7 Evan Tries an O level (Vistas)	6	
			Invitation & Replies		
			Job Application	4	
			Letter placing order	3	
7	NOV	FLAMINGO (Text Book)Prose/Poem VISTAS(Supplementary Book) Reading and writing skills	L8Memories of childhood(Vistas)	4	24
			L8 Going places (Flamingo)	4	
			P6 Aunt Jennifer's tigers(Flamingo)	2	
			Revision	14	
8	DEC	Revision& First Pre Board Examination		17	17
9	JAN	Revision &Second Pre Board Examination		14	14
10	FEB	Revision		22	22

KENDRIYA VIDYALAYA SANGATHAN, GUWAHATI REGION
SPLIT-UP SYLLABUS (2019-20)
CLASS –XII   SUBJECT - PHYSICS (THEORY & PRACTICAL)

MONTH	W. Day	UNIT & CHAPTER	CHP WISE CLASS REQUIRED	MARKS	PERIODS ALLOTED As per CBSE	PRACTICAL	EXAM (UNIT / MONTHLY)
APRIL	22	1.ELECTRIC CHARGES AND FIELDS	11	16	22	1. To determine resistance per cm of a given wire by plotting a graph for potential difference versus current.	
		2.ELECTRO STATIC POTENTIAL ND CAPACITANCE	11			2. To find resistance of a given wire using metre bridge and hence determine the resistivity (specific resistance) of its material 3. To verify the laws of combination (series)/Parallel of resistances using a metre bridge.	
MAY	8	3.CURRENT ELECTRICITY	8		20	5. To compare the EMF of two given primary cells using potentiometer.	
JUNE	10	CONT…3. CURRENT ELECTRICITY	10			6. To determine the internal resistance of given primary cell using potentiometer.	
JULY	26	4.MOVING CHARGES , MAGNETIC EFFECT OF CURRENT	14	17	22	7. To determine resistance of a galvanometer by half-deflection method and to find its figure of merit. 8. To convert the given galvanometer (of known resistance and figure of merit) into a voltmeter of desired range and to verify the same.	
		5. MAGNETISM & MATTER	8			9. To find the value of v for different values of u in case of a concave mirror and to find the focal length. 10. To find the focal length of a convex lens by plotting graphs between u and v or between 1/u and 1/v.	
		6.Eelectro magnetic induction	2		20	11. To determine angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation.	
AUGUST	24	6.Eelectro magnetic induction	10			12. To determine refractive index of a glass slab using a travelling microscope.	PT-1 TO BE HELD IN AUGUST SYLL TILL CHP-8
		7.ALTERNATING CURRENT	8			13. To draw the I-V characteristic curve for a p-n junction in forward bias and reverse bias.	
		8. ELECTROMAGNETIC WAVE.EMW	4	18	4		
		9 .OPTICS	2		27	14. To draw the characteristic curve of a zener diode and to determine its reverse breaks down voltage.	
SEPT	22	10.OPTICS	25				
OCT	17	11.DUAL NATURE OF MATTER & RADIATION	8	12	8	15. To determine the wavelength of a laser beam by diffraction.	H.Y IN OCT SYLLABUS TILL CHP-13
		12.ATOM	7		15		
NOV	24	13.NUCLEI	8	7	12		
		14.SEMI CONDUCTOR ,ELECTRONIC DEVICES	12				
TOTAL	153		150	70	150		
DEC		1ST PRE BOARD (WHOLE SYLLABUS) FROM 1ST WEEK OF DEC 2018				Dec-19	
JAN		2ND PRE BOARD (WHOLE SYLLABUS) FROM 3RD WEEK OF JAN 2019				01-01-2020 ALONG WITH PT-2	
FEB UPTO 10TH		AISSCE 2020 PRACTICAL FROM 2ND HALF OF JANUARY TO 1ST PART OF FEBRUARY					

PRACTICALS (TOTAL PERIODS 60)

KENDRIYA VIDYALAYA SANGATHAN GUWAHATI REGION
SPLIT UP SYLLABUS (2019-20)
SUBJECT- BIOLOGY
CLASS-XII

S NO	UNIT	TOPICS	PERIODS ALLOTTED	MONTH FOR COMPLETION
1	REPRODUCTION	**Reproduction In organisms:** Reproduction, a characteristic feature of all organisms for continuation of species; modes of reproduction - asexual and sexual reproduction; asexual reproduction - binary fission, sporulation, budding, gemmule formation, fragmentation; vegetative propagation in plants.	6	APRIL-JUNE
		Sexual Reproduction in Flowering Plants : Flower structure; development of male and female gametophytes; pollination - types, agencies and examples; out breeding devices; pollen-pistil interaction; double fertilization; post fertilization events - development of endosperm and embryo, development of seed and formation of fruit; special modes-apomixis, parthenocarpy, polyembryony; Significance of seed dispersal and fruit formation.	12	
		Human reproduction: Male and female reproductive systems; microscopic anatomy of testis and ovary; gametogenesis - spermatogenesis and oogenesis; menstrual cycle; fertilization, embryo development upto blastocyst formation, implantation; pregnancy and placenta formation (elementary idea); parturition (elementary idea); lactation (elementary idea).	11	
		Reproductive Health: Need for reproductive health and prevention of Sexually Transmitted Diseases (STDs); birth control - need and methods, contraception and medical termination of pregnancy (MTP); amniocentesis; infertility and assisted reproductive technologies - IVF, ZIFT, GIFT (elementary idea for general awareness).	4	

2	GENETICS AND HUMAN EVOLUTION	**Principles of Inheritance:** Heredity and variation: Mendelian inheritance; deviations from Mendelism - incomplete dominance, co-dominance, multiple alleles and inheritance of blood groups, pleiotropy; elementary idea of polygenic inheritance; chromosome theory of inheritance; chromosomes and genes; Sex determination - in humans, birds and honey bee; linkage and crossing over; sex linked inheritance - haemophilia, colour blindness; Mendelian disorders in humans - thalassemia; chromosomal disorders in humans; Down's syndrome, Turner's and Klinefelter's syndromes.	16	JULY & 14 PDS IN AUGUST 40pd
		Molecular basis of Inheritance: Search for genetic material and DNA as genetic material; Structure of DNA and RNA; DNA packaging; DNA replication; Central dogma; transcription, genetic code, translation; gene expression and regulation - lac operon; genome and human and rice genome projects; DNA fingerprinting.	17	
		Evolution: Origin of life; biological evolution and evidences for biological evolution (paleontology, comparative anatomy, embryology and molecular evidences); Darwin's contribution, modern synthetic theory of evolution; mechanism of evolution - variation (mutation and recombination) and natural selection with examples, types of natural selection; Gene flow and genetic drift; Hardy - Weinberg's principle; adaptive radiation; human evolution.	7	
3	BIOLOGY IN HUMAN WELFARE	**Human health and diseases:**Pathogens; parasites causing human diseases (malaria, dengue, chickengunia, filariasis, ascariasis, typhoid, pneumonia, common cold, amoebiasis, ring worm) and their control; Basic concepts of immunology - vaccines; cancer, HIV and AIDS; Adolescence - drug and alcohol abuse.	7	10 PDS IN AUGUST+10 PDS IN SEPTEMBER = 20 Pds
		Strategies for enhancement of food production: Improvement in food production: Plant breeding, tissue culture, single cell protein, Biofortification, Apiculture and Animal husbandry.	7	
		Microbes in human welfare: In household food processing, industrial production, sewage treatment, energy generation and microbes as biocontrol agents and biofertilizers. Antibiotics; production and judicious use.	6	

4	BIO-TECHNOLOGY AND ITS APPLICATION	**Biotechnology Principles and Processes:** Genetic Engineering (Recombinant DNA Technology).	11	**11 PDS IN SEPT+9 PDS IN OCTOBER= 21**
		Biotechnology and its Applications: Application of biotechnology in health and agriculture: Human insulin and vaccine production, stem cell technology, gene therapy; genetically modified organisms - Bt crops; transgenic animals; biosafety issues, bio piracy and patents.	10	
5	ECOLOGY AND ENVIRONMENT	**Organisms and Populations:**Organisms and environment: Habitat and niche, population and ecological adaptations; population interactions - mutualism, competition, predation, parasitism; population attributes - growth, birth rate and death rate, age distribution.	5	**9 PDS IN OCTOBER+ 9 PDS IN NOVEMBER = 18 Pds**
		Ecosystem: Ecosystems: Patterns, components; productivity and decomposition; energy flow; pyramids of number, biomass, energy; nutrient cycles (carbon and phosphorous); ecological succession; ecological services - carbon fixation, pollination, seed dispersal, oxygen release (in brief).	5	
		Bio-diversity and Conservation: Concept of biodiversity; patterns of biodiversity; importance of biodiversity; loss of biodiversity; biodiversity conservation; hotspots, endangered organisms, extinction, Red Data Book, biosphere reserves, national parks, sanctuaries and Ramsar sites.	4	
		Environmental Issues: Air pollution and its control; water pollution and its control; agrochemicals and their effects; solid waste management; radioactive waste management; greenhouse effect and climate change; ozone layer depletion; deforestation; any one case study as success story addressing environmental issue(s).	4	
	REVISION	**Complete syllabus / board pattern preparation**		**DECEMBER & FEB**

KENDRIYA VIDYALAYA SANGATHAN, GUWAHATI REGION
SPLIT-UP SYLLABUS
SUB: CHEMISTRY
CLASS XII

Sl. No.	Month	Unit	Distribution of syllabus (Name of unit and detailed Split up)	No. of Pds/Days
1	April	I	**Solutions :**Types of solutions, expression of concentration of solutions of solids in liquids, solubility of gases in liquids, solid solutions, colligative properties - relative lowering of vapour pressure, Raoult's law, elevation of boiling point, depression of freezing point, osmotic pressure, determination of molecular masses using colligative properties, abnormal molecular mass, Van't Hoff factor.	**10**
2	April	II	**Electrochemistry :**Redox reactions, conductance in electrolytic solutions, specific and molar conductivity, variations of conductivity with concentration, Kohlrausch's Law, electrolysis and law of electrolysis (elementary idea), dry cell-electrolytic cells and Galvanic cells, lead accumulator, EMF of a cell,standard electrode potential, Nernst equation and its application to chemical cells, Relation between Gibbs energy change and EMF of a cell, fuel cells, corrosion.	**12**
3	MAY-JUNE	III	**Chemical Kinetics :**Rate of a reaction (Average and instantaneous), factors affecting rate of reaction: concentration,temperature, catalyst; order and molecularity of a reaction, rate law and specific rate constant,integrated rate equations and half life (only for zero and first order reactions), concept of collision theory (elementary idea, no mathematical treatment). Activation energy, Arrhenious equation.	**10**
4	JUNE	IV	**Surface Chemistry :**Adsorption - physisorption and chemisorption, factors affecting adsorption of gases on solids,catalysis, homogenous and heterogenous activity and selectivity; enzyme catalysis colloidal state distinction between true solutions, colloids and suspension; lyophilic, lyophobic multi-molecular and macromolecular colloids; properties of colloids; Tyndall effect, Brownian movement,electrophoresis, coagulation, emulsion - types of emulsions.	**8**
5	July	V	**General Principles and Processes of Isolation of Elements:**Principles and methods of extraction - concentration, oxidation, reduction - electrolytic method and refining; occurrence and principles of extraction of aluminium, copper, zinc and iron.	**6**

6	July	VI	**"p"-Block Elements:** Group 16 Elements: General introduction, electronic configuration, oxidation states, occurrence, trends in physical and chemical properties, dioxygen: Preparation, Properties and uses, classification of Oxides, Ozone, Sulphur -allotropic forms; compounds of Sulphur: Preparation Properties and uses of Sulphur-dioxide, Sulphuric Acid: industrial process of manufacture, properties and uses; Oxoacids of Sulphur (Structures only). Group 17 Elements: General introduction, electronic configuration, oxidation states, occurrence, trends in physical and chemical properties; compounds of halogens, Preparation, properties and uses of Chlorine and Hydrochloric acid, interhalogen compounds, Oxoacids of halogens (structures only). Group 18 Elements: General introduction, electronic configuration, occurrence, trends in physical and chemical properties, uses.	**12**
7	July	VII	**"d" and "f" Block Elements :** General introduction, electronic configuration, occurrence and characteristics of transition metals, general trends in properties of the first row transition metals - metallic character, ionization enthalpy, oxidation states, ionic radii, colour, catalytic property, magnetic properties, interstitial compounds, alloy formation, preparation and properties of $K_2Cr_2O_7$ and $KMnO_4$. Lanthanoids - Electronic configuration, oxidation states, chemical reactivity and lanthanoid contraction and its consequences. Actinoids - Electronic configuration, oxidation states and comparison with lanthanoids.	**10**
8	August	VIII	**Coordination Compounds :** Introduction, ligands, coordination number, colour, magnetic properties and shapes, IUPAC nomenclature of mononuclear coordination compounds. Bonding, Werner's theory, VBT, and CFT; structure and stereoisomerism, importance of coordination compounds (in qualitative inclusion, extraction of metals and biological system).	**10**
9	August	IX	Haloalkanes and Haloarenes. Haloalkanes: Nomenclature, nature of C–X bond, physical and chemical properties, mechanism of substitution reactions, optical rotation. Haloarenes: Nature of C–X bond, substitution reactions (Directive influence of halogen in monosubstituted compounds only). Uses and environmental effects of - dichloromethane, trichloromethane, tetrachloromethane, iodoform, freons, DDT.	**11**

10	September	X	**Alcohols, Phenols and Ethers Alcohols**: Nomenclature, methods of preparation, physical and chemical properties (of primary alcohols only), identification of primary, secondary and tertiary alcohols, mechanism of dehydration, uses with special reference to methanol and ethanol.Phenols: Nomenclature, methods of preparation, physical and chemical properties, acidic nature of phenol, electrophillic substitution reactions, uses of phenols.Ethers: Nomenclature, methods of preparation, physical and chemical properties, uses.	**11**
11	September	XI	**Aldehydes, Ketones and Carboxylic Acids Aldehydes and Ketones**: Nomenclature, nature of carbonyl group, methods of preparation,physical and chemical properties, mechanism of nucleophilic addition, reactivity of alpha hydrogen in aldehydes: uses.Carboxylic Acids: Nomenclature, acidic nature, methods of preparation, physical and chemical properties; uses.	**11**
12	October	XII	**Organic compounds containing Nitrogen Amines**: Nomenclature, classification, structure, methods of preparation, physical and chemical properties, uses, identification of primary, secondary and tertiary amines.Cyanides and Isocyanides - will be mentioned at relevant places in text.Cyanides and Isocyanides - will be mentioned at relevant places in text.Diazonium salts: Preparation, chemical reactions and importance in synthetic organic chemistry.Proteins -Elementary idea of - amino acids, peptide bond, polypeptides, proteins etc.	**9**
13	October-November	XIII	**Biomolecules Carbohydrates** : Classification (aldoses and ketoses), monosaccahrides (glucose and fructose), D-L configuration oligosaccharides (sucrose, lactose, maltose), polysaccharides (starch, cellulose,glycogen); Importance of carbohydrates.proteins - primary, secondary, tertiary structure and quaternary structures (qualitative idea only),denaturation of proteins; enzymes. Hormones - Elementary idea excluding structure.Vitamins - Classification and functions.Nucleic Acids: DNA and RNA.	**9**
14	November	XIV	**Polymers Classification** : Natural and synthetic, methods of polymerization (addition and condensation),copolymerization, some important polymers: natural and synthetic like polythene, nylon polyesters, bakelite, rubber. Biodegradable and non-biodegradable polymers.	**5**
15	November	XV	**Chemistry in Everyday life Chemicals in medicines**: analgesics, tranquilizers antiseptics, disinfectants, antimicrobials,antifertility drugs, antibiotics, antacids, antihistamines.Chemicals in food - preservatives, artificial sweetening agents, elementary idea of antioxidants.Cleansing agents- soaps and detergents, cleansing action.	**5**
18	December-February		Revision , Pre-Board & Practicals	**139**

Note: Total periods/days alloted as per possible working days during academic session

KENDRIYA VIDYALAYA SANGTHAN GUWAHATI REGION
SPLIT-UP SYLLABUS
SESSION 2019-20
SUBJECT: MATHEMATICS
CLASS - XII

S.No.	CHAPTERS	MONTHS	TENTATIVE No OF PERIODS REQUIRED	NO. OF WORKING DAYS
1	RELATION AND FUNCTIONS	APRIL/MAY	45	22+08=30
2	INVERSE TRIGONOMETRIC FUNCTIONS			
3	MATRICES			
4	DETERMINANTS	JUNE/JULY	15	10
5	CONTINUITY AND DIFFERENTIATION	JULY	40	26
6	APPLICATION OF DERIVATIVES			
7	INTEGRALS	AUGUST	36	23
8	APPLICATION OF INTEGRALS			
9	DIFFERENTIAL EQUATIONS	SEPTEMBER	33	22
10	VECTORS			
11	THREE DIMENSIONAL GEOMETRY	OCTOBER	24	17
12	LINEAR PROGRAMMING	NOVEMBER	36	24
13	PROBABILITY			
	REVISION WORK / PRE-BOARD	DECEMBER		
	REVISION WORK / PRE-BOARD	JANUARY		
	REVISION/CONDUCT OF PRACTICAL FOR INTERNAL ASSESSMENT	FEBRUARY		
	CBSE EXAMINATION	MARCH		

KENDRIYA VIDYALAYA SANGATHAN, GUWAHATI REGION
SPLIT–UP SYLLABUS
SUBJECT: BIOTECH
CLASS: XII
SESSION: 2019-2020

S. No	Month	UNIT	No Of Periods	Chapter	Periods Alloted	Marks Alloted	Practicals
1	April - May	Protein and Gene Manipulation	100	Recombinant DNA Technology	40	15	1. Isolation of bacterial plasmid DNA Detection of DNA by gel electrophoreses .
2	June - July			Protein Structure and Engineering	40	15	
	August			Genomic and Bioinformatics	20	10	2. Isolation of Genomic DNA (CTAB method)
3	August September	Cell Culture and Genetic Manipulation	60	Microbial Culture and Applications	20	10	3. Estimation of DNA
	September October			Plant Cell Culture and Application	20	10	4. Bacterial transformation using any plasmid
4	November			Animal Cell Culture and Application	20	10	5. Restriction digestion of plasmid DNA & its analysis by gel electrophoresis 6. Isolation of bacteria from curd & staining of bacteria 7. Cell viability assay 8.Bioinformatics
5.	DEC. - MARCH	REVISION PREBOARD PRACTICALS					

KENDRIYA VIDYALAYA SANGATHAN, GUWAHATI REGION
SPLIT - UP SYLLABUS (2019-20)
CLASS – XII
SUBJECT – ACCOUNTANCY

Month	Working days	Unit and Chapter	Period allotted
PART A : Accounting for Partnership Firms and Companies			
April	22	**UNIT-I : Accounting for partnership firms** Financial statements of Not for Profit Organisations, Meaning, features, method of capital ,P&L Appropriation, Past Adjustments, guarantee of profit.	115
May	08	Valuation of goodwill	
June	10	Reconstitution of Partnership:-Change in profit sharing ratio	
July	26	Admission & Retirement of partner	
August	23	Death of the partner & Dissolution of Partnership Firm	
		UNIT-II : **Accounting for Companies** Accounting for Companies: Accounting for share capital (before Pro rata allotment)	35
September	22	Accounting for Companies: Accounting for share capital (prorata allotment /forfeiture/reissue/ESOP) Accounting for issue & Redemption of Debenture	
PART B : Financial Statement Analysis			
September+ October	17	**UNIT-III : Analysis of financial statement** Financial Statement of a Company Financial Statement analysis and tool for financial statement Analysis. Accounting ratios.	30
November	24	**UNIT-IV : Cash flow statement** And Revision	20
December	17	1ST PRE BOARD (WHOLE SYLLABUS)	----
January	14	2ND PRE BOARD (WHOLE SYLLABUS)	
		Project as per CBSE guidelines	40
		Total	240

** Working days are tentative only

SYLLABUS FOR PERIODIC TEST I to II and Pre Board Examination
CLASS-XII
Subject- Accountancy

Sl. No.	Name of Exam	Topic to be covered	Weightage of marks
1	1st PERIODIC TEST (50 marks)	1. Financial statements of Not for Profit Organizations. 2. Accounting for Partnership firm –Fundamental (P&L Appropriation, Past Adjustments, etc)	10 marks 13 marks
		3. Goodwill Valuation	06 marks
		4. Change in Profit sharing Ratio	06 marks
		5. Reconstitution of Partnership: Admission &Retirement of partner	15 marks
2	2nd PERIODIC TEST (50 Marks)	1.Reconstitution of Partnership:-Death of partner	10 marks
		2.Dissolution of firm	20 marks
		3.Company Accounts:-Issue of Share(Before prorata allotment)	20 marks
3	Half Yearly Examination (80 Marks)	Up to Analysis of financial Statement(Financial Statement of Companies and Financial Statement analysis.)	80 marks
4	1st PRE BOARD (80 marks)	Full syllabus as per CBSE guidelines	As per CBSE Pattern
5	2nd PRE BOARD (80 marks)	Full Syllabus as per CBSE guidelines	As per CBSE Pattern

Note:- Syllabus for Class-XII to be completed by 15th of NOVEMBER 2019.

KENDRIYA VIDAYALAYA SANGATHAN, GUWAHATI REGION
SPLIT-UP SYLLABUS
SESSION 2019-20
CLASS –XII
SUBJECT- BUSINESS STUDIES

SL. No.	MONTH	WORKING DAYS**	CHAPTERS TO BE COVERED	PERIODS REQUIRED
1	April	22	1. Nature and Significance of Management. 2. Principles of Management	14 14
2	May + June	18	3. Business Environment	12
3	July	26	4. Planning 5. Organizing	14 18
4	August	23	6. Staffing 7. Directing	16 18
5	September	22	8. Controlling	14
			9. Financial Management	22
6	October	17	10. Financial Markets 11. Marketing Management	20 32
7	November	24	Marketing Management Continued…. 12. Consumer Protection	16
8	December	17	Revision and 1st Pre Board Exam and Project Work	----
	CBSE PROJECT WORK			30
9	January-February		**CBSE Practical and Revision and 2nd Pre Board**	

** Working days are tentative

SYLLABUS FOR TEST / EXAMINATION (CLASS-XII)

SUBJECT – BUSINESS STUDIES

Sl. No.	NAME OF EXAM	TOPICS TO BE COVERED	WEIGHTAGE OF MARKS
1	PERIODIC TEST-I (50 Marks)	1. Nature and Significance of Management.	20 Marks
		2 .Principles of Management	20 Marks
		3.Business Environment	10 Marks
2	PERIODIC TEST-II (50 Marks)	4. Planning	10Marks
		5 .Organizing	20 Marks
		6.Staffing	20 Marks
3	HALF YEARLY EXAMINATION (80 Marks)	Unit 1 to Unit 9 of NCERT Text Book (Up to Financial Management)	80 Marks
4	1st PRE BOARD	Full Syllabus as per CBSE guidelines	As Per CBSE Pattern
5	2nd PRE BOARD	Full Syllabus as per CBSE Guidelines	As Per CBSE Pattern

Note:- Syllabus for Class-XII to be completed by 15th of NOVEMBER 2019.

KENDRIYA VIDYALAYA SANGATHAN, GUWAHATI REGION

SPLIT-UP SYLLABUS
SUB: COMPUTER SCIENCE (083)
CLASS - XII (NEW SYLLABUS)
(Session 2019 - 20)

DISTRIBUTION OF MARKS

UNIT	UNIT NAME	MARKS
1	Programming and Computational Thinking-2	30
2	Computer Network	15
3	Data Management-2	15
4	Society, Law and Ethics-2	10
5	Practicals	30
	TOTAL	**100**

MONTH- WISE DISTRIBUTION

Month	Topics to be covered	Th.	Pr.
April	**Unit 1: Programming and Computational Thinking-2** • Revision of the basics of Python • Functions: scope, parameter passing, mutable/immutable properties of data objects, pass arrays to functions, return values, functions using libraries: mathematical, and string functions.	30	20
May-June	• File handling: open and close a file, read, write, and append to a file, standard input, output, and error streams, relative and absolute paths. • Using Python libraries: create and import Python libraries	20	10
July	• Recursion: simple algorithms with recursion: factorial, Fibonacci numbers; recursion on arrays: binary search • Idea of efficiency: performance defined as inversely proportional to the wall clock time, count the number of operations a piece of code is performing, and measure the time taken by a program. Example: take two different programs for the same problem, and understand how the efficient one takes less time.	30	25
Aug	• Data visualization using Pyplot: line chart, pie chart, and bar chart. • Data-structures: lists, stacks, queues.	25	25
September	**Unit 2: Computer Network (CN)** • Structure of a network: Types of networks: local area and wide area (web and internet), new technologies such as cloud and IoT, public vs. private cloud, wired and wireless networks; concept of a client and server. • Network devices such as a NIC, switch, hub, router, and access point. • Network stack: amplitude and frequency modulation, collision in wireless networks, error checking, and the notion of a MAC address, main idea of routing. IP addresses: (v4 and v6), routing table, router, DNS, and web URLs, TCP: basic idea of retransmission, and rate modulation when there is congestion (analogy to a road network), Protocols: 2G, 3G, 4G, Wi-Fi. What makes a protocol have a higher bandwidth?	25	20

	• Basic network tools: traceroute, ping, ipconfig, nslookup, whois, speed-test. • Application layer: HTTP (basic idea), working of email, secure communication: encryption and certificates (HTTPS), network applications: remote desktop, remote login, HTTP, FTP, SCP, SSH, POP/IMAP, SMTP, VoIP, NFC.			
	HALF YEARLY EXAMINATION			
October	**Unit 3: Data Management (DM-2)** • Write a minimal Django based web application that parses a GET and POST request, and writes the fields to a file - flat file and CSV file. • Interface Python with an SQL database SQL commands: aggregation functions – having, group by, order by.	15	05	
November	**UNIT 4: Society , Law and Ethics (SLE-2)** • Intellectual property rights, plagiarism, digital rights management, and licensing (Creative Commons, GPL and Apache), open source, open data, privacy. • Privacy laws, fraud; cyber-crime- phishing, illegal downloads, child pornography, scams; cyber forensics, IT Act, 2000. • Technology and society: understanding of societal issues and cultural changes induced by technology. • E-waste management: proper disposal of used electronic gadgets. • Identity theft, unique ids, and biometrics. • Gender and disability issues while teaching and using computers. **Revision, Project Work Submission**	15	05	
Dec-Jan	• **Pre-Board Examination**			
Feb	• **Revision & AISSCE Practical Examination**			

GUIDELINES FOR PRACTICAL WORK
COMPUTER SCIENCE (065) :CLASS - XII
DISTRIBUTION OF MARKS

S.No.	UNIT NAME	MARKS
1	**Lab Test (10 marks)**	
	Python programs to test PCT (60% logic + 20% documentation +20% code quality)	7
	Small Python program that sends a SQL query to a database and displays the result. A stub program can be provided.	3
2	**Report File + viva (09 marks)**	
	Report file: Minimum 21 Python programs. Out of this at least 4 programs should send SQL commands to a database and retrieve the result; at least 1 program should implement the web server to write user data to a CSV file.	7
	Viva voce (based on the report file)	2
3	**Project + viva (11 marks) ***	
	Project Work (that uses most of the concepts that have been learnt)	8
	Project Viva Voce.	3

*Refer CBSE Curriculum for detailed guidelines for Project work.

KENDRIYA VIDYALAYA SANGATHAN, GUWAHATI REGION
SPLIT-UP SYLLABUS
SUB: INFORMATICS PRACTICES (065)
CLASS - XII (NEW SYLLABUS)
(Session 2019 - 20 onward)
DISTRIBUTION OF MARKS

UNIT	UNIT NAME	MARKS
1	Data Handling - 2	30
2	Basic Software Engineering	15
3	Data Management-2	15
4	Society, Law and Ethics-2	10
5	Practicals	30
	TOTAL	**100**

MONTH- WISE DISTRIBUTION

Month	Topics to be covered	Th.	Pr
April	**Unit 1: Data Handling -2 : Python Pandas** • Advanced operations on Data Frames: pivoting, sorting, and aggregation • Descriptive statistics: min, max, mode, mean, count, sum, median, quartile, var	25	20
May-June	• Create a histogram, and quantiles. • Function application: pipe, apply, aggregation (group by), transform, and apply map. • Reindexing, and altering labels.	15	20
July	**Numpy** • 1D array, 2D array • Arrays: slices, joins, and subsets • Arithmetic operations on 2D arrays • Covariance, correlation and linear regression	30	25
August	**Plotting with Pyplot** • Plot bar graphs, histograms, frequency polygons, box plots, and scatter plots. **Unit 2: Basic Software Engineering (BSE)** • Introduction to software engineering • Software Processes: waterfall model, evolutionary model, and component based model	25	25
September	• Delivery models: incremental delivery, spiral delivery • Process activities: specification, design/implementation, validation, evolution • Agile methods: pair programming, and Scrum • Business use-case diagrams • Practical aspects: Version control system (GIT), and do case studies of software systems and build use-case diagrams	25	20

	HALF YEARLY EXAMINATION			
October	**Unit 3: Data Management (DM-2)** • Write a minimal Django based web application that parses a GET and POST request, and writes the fields to a file - flat file and CSV file. • Interface Python with an SQL database SQL commands: aggregation functions – having, group by, order by.	10	05
November	**UNIT 4: Society , Law and Ethics (SLE-2)** • Intellectual property rights, plagiarism, digital rights management, and licensing (Creative Commons, GPL and Apache), open source, open data, privacy. • Privacy laws, fraud; cyber-crime- phishing, illegal downloads, child pornography, scams; cyber forensics, IT Act, 2000. • Technology and society: understanding of societal issues and cultural changes induced by technology. • E-waste management: proper disposal of used electronic gadgets. • Identity theft, unique ids, and biometrics. • Gender and disability issues while teaching and using computers. • Role of new media in society: online campaigns, crowdsourcing, smart mobs • Issues with the internet: internet as an echo chamber, net neutrality, internet addiction • Case studies - Arab Spring, WikiLeaks, Bit coin **Revision, Project Work**	15	05
Dec-Jan	• **Pre-Board Examination**		
Feb	• **Revision & AISSCE Practical Examination**		

PRACTICAL WORK
INFORMATICS PRACTICES (065) : CLASS - XII
DISTRIBUTION OF MARKS

S.No.	UNIT NAME	MARKS
1	**Lab Test (10 marks)**	
	Python programs to test PCT (60% logic + 20% documentation +20% code quality)	7
	Small Python program that sends a SQL query to a database and displays the result. A stub program can be provided.	3
2	**Report File + viva (09 marks)**	
	Report file: Minimum 21 Python programs. Out of this at least 4 programs should send SQL commands to a database and retrieve the result; at least 1 program should implement the web server to write user data to a CSV file.	7
	Viva voce (based on the report file)	2
3	**Project + viva (11 marks) ***	
	Project Work (that uses most of the concepts that have been learnt)	8
	Project Viva Voce.	3

*Refer CBSE Curriculum for detailed guidelines for Project work.

KENDRIYA VIDYALAYA SANGATHAN, GUWAHATI REGION
SPLIT –UP SYLLABUS (TERM-I)
SESSION: 2019-2020
CLASS: XII
SUBJECT: POLITICAL SCIENCE

Units		Periods	Marks	Month
Part A: Contemporary World Politics				
1	Cold War Era	14		**April**
2	The End of bipolarity	13	14	May
3	US Hegemony in World Politics	13		June
4	Alternative centres of Power	11	**16**	July
5	Contemporary South Asia	13		Aug
6	International Organizations	13		Aug
7	Security in Contemporary World	11	10	Sept
8	Environment and Natural Resources	11		**Sept**
9	Globalization	11	10	Oct
	TOTAL	**110**	**50**	
Part B: Politics in India since Independence				
10	Challenges of Nation-Building	13		**April**
11	Era of One-party Dominance	12	**16**	May
12	Politics of Planned Development	11		June
13	India's External relations	13	6	July
14	Challenges to the Congress System	13		July
15	Crisis of the Democratic Order	13	12	Aug
16	Rise of Popular Movements	11		**Aug**
17	Regional aspirations	11	16	Sept
18	Recent Developments in Indian Politics	13		Sept
	Total	**110**	**50**	

KENDRIYA VIDYALAYA SANGATHAN GUWAHATI REGION
SPLIT-UP SYLLABUS
Class: XII
Subject: History
Session: 2018-19

S. No.	Name of the chapter	Month	No.of Working days	Learning Outcome	No. of periods	Weightage of Marks	TEST AND EXAMS
1	Bricks, Beads and Bones (Harappan Civilization)	April	25	Ancient Urban Center as economic and social institution, Sources, Planning, Major sites	13	Part- I (25) Including one comprehension	
2	Kings, Farmers and Towns			From 600 BCE to 600 CE the political trends and economic history of the sub-continent .Inscriptional sources and others	14		
3	Kinship, Caste and Class	May-June	9	Mahabharat as a source to know the social History of 600 BC to 600 CE, Textual analysis and reconstructing social history	14		
4	Thinkers, Beliefs and Buildings			Cultural and religious trends from 600 BCE to 600 CE, Jainism and Buddhism and Hinduism, teachings and principles, monuments and reconstructing religious histories.	14		MT
5	Through the Eyes of Travellers		26	Medieval society through traveler's account, Al Beruni, Ibn-Batuta and Bernier	13	Part- II (25) Including one comprehension	
6	Bhakti-Sufi Traditions	July		Religious developments in medieval period, Bhakti Sufi traditions features saints, texts and teachings	13		
7	An Imperial Capital: Vijayanagara			Imperial city Vijaynagar, history, Rulers, Buildings, Colin Meckengie's findings	13		MT
8	Peasants Zamindars and the State	August	24	15TH to 17TH century, Mughal period, Sources, Ain-i- Akbari, Administration Revenue records & Revenue system village community and artisans, Panchayat and Zamindars, Trade and commerce	10		
9	Kings and Chronicles			Mughal court and Mughal cronicles , Akbarnama and Padsahnama, limitations	10		

10	Colonialism and the country side			Life of Zamindars, Peasants and artisans. Revenue settlements, official records, fifth report, Deccan Riot report	10		MT
11	Rebels and the Raj.	September	21	Representation of the Revolt of 1857,sources,causes ,Leaders, Centres, repressive measures, prophesies	09	Part- III (25) Including one comprehension	
12	Colonial cities			Modern urban centers established by the colonial govt., Black and White township, other buildings , Architectural styles.	13		MT
13	Mahatma Gandhi and the nationalist Movement	October	18	Nationalist Movement and Gandhian leadership, Ideals of Gandhiji, movements, Sources to know about Gandhiji.	13		
14	Understanding partition(Politics, Memories and Experiences)			About partition, Factors, Growth of Communalism, oral histories, limitations, effects.	14		MT
15	Framing the Constitution(The Beginning of New Era)	November	9	Indian constitution, Ideals, Objective Resolution, leaders, committees, members, features, Language and Minority issue.	14		MT
		December		REVISION			PB-1
		January		REVISION			PB-2
		February		REVISION			
16	Map Work(All Units)				10	5	
17	Project Work				10	20	
18	Total				220	100	
	Note: There is no change in the syllabus. Value Based Question can be from Part-1, 2, 3 textbooks and carry 04 marks. 3 comprehension questions can be taken from any of the above Parts- 1,2,3 Accordingly teacher can reduce weightage of the corresponding sections.						

KENDRIYA VIDYALAYA SANGATHAN
(GUWAHATI REGION)
SPLIT UP SYLLABUS
Class: XII
SESSION: 2019-20
Subject: Geography

Month	No. of working days	Unit	BOOK 1: FUNDAMENTALS OF HUMAN GEOGRAPHY	Unit	BOOK 2: INDIA- PEOPLE AND ECONOMY	No. of periods	Test/Exam
April-May	22+8	I	1. Human Geography: Nature and scope	I	1. Population: Distribution, Density, Growth and Composition 2. Migration types, causes and Consequences	23+10	
		II	2. The World population: Distribution, Density and Growth 3. Population Composition				
June	10	II	4. Human Development	I	3. Human Development	12+5	**MT-1**
		PRACTICAL	1. Data: its sources and compilation			5	
July	26	III	5. Primary activities 6. Secondary Activities 7. Tertiary and Quaternary activities	II	4. Human settlements	20+6	**MT-2**
		PRACTICAL	2. Data processing			12	
August	23	III	8. Transport and Communication	III	5. Land resources and Agriculture 6. Water Resources	12+12	**MT-3**
		PRACTICAL	Graphical presentation of data			10	

September	22	**III**	9. International Trade	**III**	7. Mineral and energy Resources 8. Manufacturing Industries	8+13	**MT-4**
		PRACTICAL	Use of computer in data processing and mapping			6	
October	17	**IV**	10. Human settlements	**III** **IV**	11. Planning and Sustainable Development in Indian Context 12. Transport and Communication	8+10	**MT-5**
		PRACTICAL	Field survey / Spatial Information technology			15	
November	24		REVISION	**IV** **V**	13. International Trade 14. Geographical Perspective on Selected Issues and Problems	10+9	**MT-6**
December January February			REVISION		REVISION		**1st Pre-Board** **2nd Pre-Board**

Theory (70 marks)

Book 1: Fundamentals of Human Geography – 30 marks

Book 2: India People and Economy – 30 marks

Map Identification: 5 marks

Map Location & labeling: 5 marks

Practical work: (30 marks)

Unit 1: Processing of Data and Thematic Mapping (15 Marks)

Unit 2: Field study or Spatial Information Technology (10 Marks)

Practical Record Book and Viva voce (5 Marks)

S.NO.	Name of the Exam.	Name of the Chapter/Topics	No. of periods required	entative working days	MONTH
1	Periodic Test -1	**Unit 1: National Income and Related Aggregates** What is Macroeconomics? Basic concepts in macroeconomics: consumption goods, capital goods, final goods, intermediate goods; stocks and flows; gross investment and depreciation. Circular flow of income (two sector model); Methods of calculating National Income - Value Added or Product method, Expenditure method, Income method. Aggregates related to National Income: Gross National Product (GNP), Net National Product (NNP), Gross and Net Domestic Product (GDP and NDP) - at market price, at factor cost; Real and Nominal GDP. GDP and Welfare	20	22	APRAIL
2	Periodic Test -1	**Unit 2: Money and Banking** Money - meaning and supply of money- Currency held by the public and net demand deposits held by commercial banks. Money creation by the commercial banking system. Central bank and its functions (example of the Reserve Bank of India): Bank of issue, Govt. Bank, Banker's Bank, Control of Credit through Bank Rate, CRR, SLR, Repo Rate and Reverse Repo Rate, Open Market Operations, Margin requirement.	16	18	MAY-JUN
3		**Unit 3: Determination of Income and Employment** Aggregate demand and its components. Propensity to consume and propensity to save (average and marginal). Short-run equilibrium output; investment multiplier and its mechanism. Meaning of full employment and involuntary unemployment. Problems of excess demand and deficient demand; measures to correct them - changes in government spending, taxes and money supply.	25	26	JULY

4	Periodic Test -2	**Unit 4: Government Budget and the Economy** Government budget - meaning, objectives and components. Classification of receipts - revenue receipts and capital receipts; classification of expenditure – revenue expenditure and capital expenditure. Measures of government deficit - revenue deficit, fiscal deficit, primary deficit their meaning.	11	23	AUGUST
5		**Unit 5: Balance of Payments** Balance of payments account - meaning and components; balance of payments deficit-meaning. Foreign exchange rate - meaning of fixed and flexible rates and managed floating. Determination of exchange rate in a free market.	12		
6		**Unit 6: Development Experience (1947-90) and Economic Reforms since 1991** A brief introduction of the state of Indian economy on the eve of independence. Common goals of Five Year Plans. Main features, problems and policies of agriculture (institutional aspects and new agricultural strategy, etc.), industry (industrial licensing, etc.) and foreign trade.	9	22	SEPTEMBER
7		**Economic Reforms since 1991:** Features and appraisals of liberalisation, globalisation and privatisation (LPG policy); Concepts of demonetization and GST			
8	HALF YEARLY EXAM	**Unit 7: Current challenges facing Indian Economics** **Poverty**- absolute and relative; Main programmes for poverty alleviation: A critical assessment; **Rural development**: Key issues - credit and marketing - role of cooperatives; agricultural diversification; alternative farming - organic farming **Human Capital Formation**: How people become resource; Role of human capital in economic development; Growth of Education Sector in India **Employment**: Formal and informal growth; problems and policies. **Infrastructure**: Meaning and Types: Case Studies: Energy and Health: Problems and Policies- A critical assessment; **Sustainable Economic Development**: Meaning, Effects of Economic Development on Resources and Environment, including global warming.	14	17	OCTOBER

9		**Unit 8: Development Experience of India** A comparison with neighbours India and Pakistan India and China Issues: growth, population, sectoral development and other Human Development Indicators.	20	24	NOVEMBER
10		**Part C: Project in Economics** **PRE BOARD –I**			DECEMBER
11		**PRE BOARD –II**			JANUARY
12		**PRACTICE OF SAMPLE PAPERS.**			FEBRUARY
13		**SESSIONENDING EXAM-2020**			MARCH

केन्द्रीय विद्यालय गुवाहाटी संभाग
पाठ्यक्रम विभाजन 2019-20
कक्षा - बारहवीं
विषय - हिन्दी कोर

क्रम संख्या	महीना	कलान्स	आरोह भाग -2 (गद्य)	आरोह भाग -2 (पद्य)	वितान भाग -2	लेखन
1	अप्रैल	22	भक्तिन	आत्म परिचय दिन जल्दी जल्दी ढलता है. (हरिवंश राय बच्चन)	सिल्वर वैडिंग	अपठित बोध समसामयिक अनुच्छेद, लेखन औपचारिक पत्र
2	मई	08	बाजार दर्शन ,	पतंग (आलोक धन्वा)	सिल्वर वैडिंग	
3	जून	10	काले मेघा पानी दे,	कविता के बहाने (कुँवर नारायण)	जूझ	सामाजिक अनुच्छेद, लेखन, अनौपचारिक पत्र लेखन , आलेख जून मासिक परीक्षा
4	जुलाई	26	पहलवान की ढोलक (फणीश्वर नाथ रेणु) चार्ली चैप्लिन यानी हम सब ,	बात सीधी थी पर(कुँवर नारायण) कैमरे में बंद अपाहिज , रघुवीर सहाय		नैतिक अनुच्छेद,फीचर, जनसंचार की विधाएँ (प्रिंट माध्यम और संपादकीय), पत्रकारिता जुलाई मासिक परीक्षण

5	अगस्त	23	नमक (रजिया सज्जद जाहिर) शिरीष के फूल (हजारी प्रसाद द्विवेदी)	सहर्ष स्वीकारा है (गजानन माधव मुक्तिबोध) उषा (शमशेर बहादुर सिंह)	अतीत में दबे पाँव	संस्कृतिक अनुच्छेद,समाचार लेखन, इंटरनेट, संपादन,
6	सितंबर	22	श्रम विभाजन और जाति प्रथा (डॉ. भीम राव अम्बेडकर)	कवितावली लक्ष्म्ण मूर्छा और राम का विलाप (गोस्वामी तुलसीदास)	डायरी के पन्ने	साहित्यक अनुच्छेद,, विषेश लेखन, संपादकीय, सितंबर मासिक परीक्षण
7	अक्तूबर	17		गज़ल रुबाईयाँ (फिराक गोरखपुरी) छोटा मेरा खेत (उमाशंकर जोशी)		यात्रा संबंधी अनुच्छेद,, अपठित बोध पुस्तक समीक्षा
8	नवंबर	24	पुनरावृत्ति	पुनरावृत्ति	पुनरावृत्ति	जनसंचार की विधाएँ अपठित बोध 3 मॉडल प्रतिदर्श प्रश्न पत्र
9	दिसंबर	17	पुनरावृत्ति		पूर्व बोर्ड परीक्षण-1	3 सीबीएससी प्रश्न-पत्र हल सहित
10	जनवरी	14	पुनरावृत्ति		पूर्व बोर्ड परीक्षण 2	3 प्रतिदर्श प्रश्न पत्र का परीक्षण कर मूल्यांकन
11	फरवरी	24	पुनरावृत्ति	पुनरावृत्ति	पुनरावृत्ति	3 प्रतिदर्श प्रश्न पत्र का छात्रों द्वारा स्वपरीक्षण