KENDRIYA VIDYALAYA SANGATHAN, PATNA REGION

SPLIT UP SYLLABUS

2019-20

SUBJECT – ACCOUNTANCY

CLASS - XII

S.NO	CHAPTERS	PERIODS ALLOTED	MONTH
1.	**Unit-1** **Financial Statements of Not for Profit Organisations**	25	
	Unit-2 Accounting for Partnership Firms Partnership : Features, Partnership Deed, Provisions of Indian Partnership Act in absence of deed, fixed vs fluctuating account, profit & loss appropriation a/c, guarantee of profits, past adjustments	90	April
2.	Goodwill, Change in Profit Sharing Ratio		May
3.	Admission of a partner, Retirement of a partner, Death of a partner		July
4.	Dissolution of Partnership Firm		August
5.	**Unit-3 Accounting for Companies** Accounting for Share Capital	35	August-September
6.	Accounting for issue and redemption of debentures		September
7.	**Unit -4 Analysis of Financial Statement**	30	October
8.	**Unit-5 Cash Flow Statement**	20	November
9.	Project Work	30	
10.	Revision and First Pre Board Exam		December
11.	Revision, Second Pre Board Exam and CBSE Practical		January-February

				KENDRIYA VIDYALAYA SANGATHAN PATNA REGION	
				SPLIT UP SYLLABUS 2019-20	
				SUB: BIOLOGY(CLASS-12th)	
S.No	Month	Expected No.of working Days	Name of Unit	Chapter No & Chapter	Detailed Split-up	Total No. of Periods
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1	April And May	23+10	UNIT-6 (Reproduction	Chap-1 to 4	**Chapter-1: 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. **Chapter-2: Sexual Reproduction in Flowering Plants** Flower structure; development of male and female gametophytes; pollination - types, agencies and examples; outbreeding 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. **Chapter-3: Human Reproduction** Male and female reproductive systems; microscopic anatomy of testis and ovary; gametogenesis - spermatogenesis and oogenesis; menstrual cycle; fertilisation, embryo development upto blastocyst formation, implantation; pregnancy and placenta formation (elementary idea); parturition (elementary idea); lactation (elementary idea). **Chapter-4: Reproductive Health** Need for reproductive health and prevention of Sexually Transmitted Diseases (STDs); birthcontrol - need and methods, contraception and medical termination of pregnancy (MTP); amniocentesis; infertility and assisted reproductive technologies - IVF, ZIFT, GIFT (elementary idea for general awareness). *Practicals-* *Study of T.S. of Blastula through permanent slide* *Exercise on controlled pollination- emasculation, tagging etc.* *Study and identify stages of gametic development i.e T.S. of Testis and T.S. of ovary from permanent slides.* *Study of flowers adapted to pollination by different agencies*	33
2	June & July	8+26	(Unit-VII) Genetics and Evolution	Chap-5,6,7	**Chapter-5: Principles of Inheritance and Variation** **Heredity and variation:** Mendelian inheritance; deviations from Mendelism–incompletedominance, co-dominance, multiple alleles and inheritance of blood groups, pleiotropy; elementary idea of polygenic inheritance; chromosome theory of inheritance; chromosomes andgenes; Sex determination - in humans, birds and honey bee; linkage and crossing over; sex linkedinheritance - haemophilia, colour blindness; Mendelian disorders in humans - thalassemia;chromosomal disorders	34

				in humans; Down's syndrome, Turner's and Klinefelter's syndromes. **Chapter-6: 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. **Chapter-7: 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. *Practical- Study of pollen germination on a slide* *Isolation of DNA from available plant material* *Study of meiosis from prepared slides* *Study of pedigree from prepared charts*	
3	August	23	**(Unit-VIII) Biology and Human welfare**	Chap-8,9	**Chapter-8: 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. **Chapter-9: Strategies for Enhancement in Food Production** Improvement in food production: Plant breeding, tissue culture, single cell protein, Biofortification, Apiculture and Animal husbandry. *Practical- To identify common diseases* *Study the effect of different temperatures and three different pH on the activity of salivary amylase on starch*	23
4	September	23	**Unit-VIII Conti.. Unit-IX (Biotechnology)**	Chap-10,11,12	**Chapter-10: Microbes in Human Welfare** In household food processing, industrial production, sewage treatment, energy generation and microbes as bio-control agents and bio-fertilizers. Antibiotics; production and judicious use. **Chapter-11: Biotechnology - Principles and processes** Genetic Engineering (Recombinant DNA Technology). **Chapter-12: Biotechnology and its Application** 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 patent. *Practical- Study of pH , clarity and presence of any living organism in water sample* *Prepare a temporary mount of onion root tip to study mitosis.*	23

| 5 | October And November | 18 | (Unit-X) Ecology | Chap 13,14,15,16 | **Chapter-13: 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.
Chapter-14: 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).
Chapter-15: Biodiversity and its Conservation
Biodiversity-Concept, patterns, importance; loss of biodiversity; biodiversity conservation; hotspots, endangered organisms, extinction, Red Data Book, biosphere reserves, national parks, sanctuaries and Ramsar sites
Chapter-16: 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 issues.
Practicals-Collect and study soil, texture, moisture etc.
Study pH and water holding capacity of different soil samples
Study presence of suspended particulate matter in air
Population density and population frequency by quadret method.
Study and comment on Xerophytic and aquatic plants and animals | 18 |

NOTE- **Syllabus is to be completed by 31st October followed by Pre-Boards and extensive revision in the months of November, December and January.**

BIOLOGY (Code No. 044)

QUESTION PAPER DESIGN Class – XII (2019-20)

Time: 3 Hours   **Max. Marks: 70**

1) Board Examination – Theory

S. No.	Typology of Questions	Very Short Answer (VSA) (1 Mark)	Short Answer-I (SA-I) 2 Marks	Short Answer-II (SA-II) (3 marks)	Long Answer (LA) (5 marks)	Total Marks	% Weightage
1.	**Remembering- (Knowledge based** Simple recall questions, to know specific facts, terms, concepts, principles, or theories, Identify, define, or recite, information)	2	1	1	-	7	10%
2.	**Understanding- (Comprehension -**To be familiar with meaning and to understand conceptually, interpret, compare, contrast, explain, paraphrase information)	-	2	4	1	21	30%
3.	**Application** (Use abstract information in concrete situation, to apply knowledge to new situations, Use given content to interpret a situation, provide an example, or solve a problem)	-	2	4	1	21	30%
4.	**Evaluating & Analysis -** Classify, Compare, Contrast, or differentiate between different pieces of information, Organize and/or integrate unique pieces of information from a variety of sources)	2	1	1	1	12	17%
5.	**Creating -** (Appraise, judge, and/or justify the value or worth of a decision or outcome, or to predict outcomes based on values)	1	1	2	-	9	13%
	Total	**5x1=5**	**7x2=14**	**12x3=36**	**3x5=15**	**70(27)**	**100%**

CLASS XII (2019-20) (THEORY)

Time: 3 Hours   **Max. Marks: 70**

Unit	Title	No. of Periods	Marks
VI	Reproduction	30	14
VII	Genetics and Evolution	40	18
VIII	Biology and Human Welfare	30	14
IX	Biotechnology and its Applications	30	10
X	Ecology and Environment	30	14
		160	70

PRACTICALS (XII) (2019-20)

Time Allowed: Three hours   **Max. Marks: 30**

One Major Experiment	5 Marks
One Minor Experiment	4 Marks
Slide Preparation	5 Marks
Spotting	7 Marks
Practical Record + Viva Voce (Credit to the students' work over the academic session may be given)	4 Marks
Project Record + Viva Voce (Credit to the students' work over the academic session may be given)	5 Marks
Total	30 Marks

KENDRIYA VIDYALAYA SANGATHAN, PATNA REGION

SPLIT UP SYLLABUS

2019-20

SUBJECT – BUSINESS STUDIES

CLASS - XII

S.NO	CHAPTERS	PERIODS ALLOTED	MONTH
1.	Nature and Significance of Management	12	April
2.	Principles of Management	14	April
3.	Business Environment	12	May-June
4.	Planning	14	July
5.	Organising	15	July
6.	Staffing	16	August
7.	Directing	15	August
8.	Controlling	12	September
9.	Financial Management	20	September
10.	Financial Market	18	October
11.	Marketing Management	30	October-November
12.	Consumer Protection	12	November
13.	Revision and 1st Pre board Exam		December
14.	Revision, 2nd Pre board Exam and CBSE Practical		January-February
	Project Work	30	

KENDRIYA VIDYALAYA SANGATHAN, PATNA REGION, PATNA

Split up syllabus
Class-XII(2019-20) Subject :- Chemistry

Sl.No	Unit	Topic/Chapter	Month	Marks	Topic for Practical
					Qualitative anaylsis
1	1	Solutions	April		Electrochemistry
2	2	Electrochemistry	April- May	23	Thermochemistry
3	3	Chemical Kinetics	May		Qualitative anaylsis (contd)
4	4	Surface Chemistry	June		Surface Chemistry
5	5	General Principles and Process of Isolation of Elements	July		Chemical Kinetics
6	6	p-Block Elements	July	19	Chromatography
7	7	d & f - Block Elements	July-Aug		Volumetric Analysis
8	8	Coordination Compounds	August		Preparation of inorganic compound
9	9	Halo- alkanes and haloarenes	August		Detection of functional groups
10	10	Alcohols, Phenols and Ethers	Aug. - Sept.		Detection of functional groups
11	11	Aldehyde, Ketones and Carboxylic acid	September		Investigatory project
12	12	Organic Compounds containing Nitrogen	Sept. - Oct.	28	Qualitative analysis(Revision)
13	13	Biomolecules	October		Volumetric Analysis
14	14	Polymers	November		Test for carbohydrates, fast and proteins
15	15	Chemistry in everyday life	November		Revision
		Revision	December		
		First Pre-Board Examination	December	70	Revision
		Revision and Second pre-Board Examination	January	70	
		AISSC Practical Examination	Jan/Feb	30	
		AISSC Theory Examination	March	70	

		KENDRIYA VIDYALAYA SANGATHAN, PATNA REGION, PATNA			
		Split up syllabus **Class-XI (2019-20) Subject:- Chemistry**			
SI.No	Unit	Topic/Chapter	Month	Marks	Topic for Practical
1	1	Some Basic Conepts of Chemistry	June	8	A. Basic Laboratory Techniques i Cutting glass tube and glass rod
2	2	Structure of Atom	June-July		ii. Bending a glass tube
3	3	Classification of Elements and Periodicity in Properties	July	4	iii. Drawing out a glass jet iv. Boring a cork
4	4	Chemical Bonding and Molecular Structure	July-Aug.	20	Preparation of Crystals of Copper Sulphate, Benzoic acid Alum
		First Preridic Test	Aug.		Quantitative/Volumetric Expt Preparation of Standard soln. Use of Chemical balance, Titration Investigatory Project
5	5	States of Matter: Gases and Liquids	Aug.		
6	6	Chemical Thermodynamics	Aug.		
7	7	Equilibrium	Sept.		
8	8	Redox Reactions	Sept.	20	Experiments based on Chemical Equilibrium, pH
		Revision before Mid Term Examination			
		Mid Term Examination (Theory and Practical)			Qualitative Analysis, Salt Test
9	9	Hydrogen	Oct.		
10	10	s-Block Elements	November		
11	11	Some p-Block Elements	Dec.		
12	12	Organic Chemistry: Some basic Principles and Techniques	Dec.-Jan.	18	Detection of element in Organic Compounds
13	13	Hydrocarbons	Jan. - Feb.		
		Second Periodic Test	January		Salt Test
14	14	Environmental Chemistry	February		Revision
		Session Ending Practical Examination	February	30	
		Session Ending (Theory) Examination	March	70	

S.NO.	Name of the Exam	Name of the Chapter/Topics	No. of periods required	Tentative working days	MONTH
1	Monthly Test -1	**Part A:** **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	APRIL
2	Monthly Test -2	**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-JUNE
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		**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		**Part B:** **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. Concepts of **demonetization and GST**	9	22	SEPTEMBER
7	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. **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

8	HALF YEARLY EXAM	**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
9		**Part C:** **Project in Economics PRE BOARD –I**			DECEMBER
10		**PRE BOARD –II**			JANUARY
11		**PRACTICE OF SAMPLE PAPERS AND BOARD QUESTION PAPERS**			FEBRUARY
12		**SESSIONENDING EXAM-2020**			MARCH

PROJECT TOPIC :

• Micro and Small Scale Industries	• Food Supply Channel in India
• Contemporary Employment situation in India	• Disinvestment policy of the government
• Goods and Services Tax Act and its Impact on GDP	• Health Expenditure (of any state)
• Human Development Index	• Inclusive Growth Strategy
• Self-help group	• Trends in Credit availability in India
• Monetary policy committee and its functions	• Role of RBI in Control of Credit
• Government Budget & its Components	• Trends in budgetary condition of India
• Exchange Rate determination – Methods and Techniques	• Currency War – reasons and repercussions
• Livestock – Backbone of Rural India	• Alternate fuel – types and importance
• Sarwa Siksha Abhiyan – Cost Ratio Benefits	• Golden Quadrilateral- Cost ratio benefit
• Minimum Support Prices	• Relation between Stock Price Index and Economic Health of Nation
• Waste Management in India – Need of the hour	• Minimum Wage Rate – approach and Application
• Digital India- Step towards the future	• Rain Water Harvesting – a solution to water crises
• Vertical Farming – an alternate way	• Silk Route- Revival of the past
• Make in India – The way ahead	• Bumper Production- Boon or Bane for the farmer
• Rise of Concrete Jungle- Trend Analysis	• Organic Farming – Back to the Nature
• Any other newspaper article and its evaluation on basis of economic principles	• **Any other topic**

ECONOMICS (030)
CLASS – XII (2019-20)

THEORY : 80 MARKS **3 HOURS**

PROJECT : 20 MARKS

Part A	Introductory Macroeconomics	40
Unit 1	National Income and Related Aggregates	10
Unit 2	Money and Banking	06
Unit 3	Determination of Income and Employment	12
Unit 4	Government Budget and the Economy	06
Unit 5	Balance of Payments	06
Part B	**Indian Economic Development**	**40**
Unit 6	Development Experience(1947-90) and Economic Reforms since 1991	12
Unit 7	Current Challenges facing Indian Economy	20
Unit 8	Development Experience of India – A Comparision with Neighbours	08
Part C	**Project Work**	**20**

SUGGESTED QUESTION PAPER DESIGN
ECONOMICS (CODE NO. 030)
CLASS XII (2019-20)
MARCH 2020 EXAMINATION

MARKS: 80

DURATION: 3HRS.

SN	Typology of Questions	Objective Type/ MCQ 1 Mark	Short Answer I 3 Marks	Short Answer II 4 Marks	Long Answer 6 Marks	Marks
1	**Remembering:** Exhibit memory of previously learned material by recalling facts, terms, basic concepts, and answers.	5	1	2	1	22
2	**Understanding:** Demonstrate understanding of facts and ideas by organizing, comparing, translating, interpreting, giving descriptions, and stating main ideas.	5	1	2	1	22
3	**Application:** Solve problems to new situations by applying acquired knowledge, facts, techniques and rules in a different way.	5	1	1	1	18

4	**Analysing and Evaluating**: Examine and break information into parts by identifying motives or causes. Make inferences and find evidence to support **Generalizations**. Present and defend opinions by making judgments about information, validity of ideas, or quality of work based on a set of criteria. Creating: Compile information together in a different way by combining elements in a new pattern or proposing alternative solutions.	5	1	1	1	18
	Total	20X1=20	4X3=12	6X4=24	4X6=24	80 (34)

There will be Internal Choices in questions of 1 mark, 3 marks, 4 marks and 6 marks in both sections (A & B). In all, there will be total of 8 internal choices.

KENDRIYA VIDYALAYA SANGATHAN PATNA REGION
Split-Up Syllabus 2019-20
Class-XII   English

Month	Syllabus to be Covered	
	Textbook/Section	**Lessons/Topic/Activity**
April	Flamingo	My Mother at Sixty-Six
		The Last Lesson
		Lost Spring
	Reading Skill	Note making & Summarizing
	Vistas	The Third Level
	Writing Skill	Notice Writing
		Official Letters- Enquiries, Complaints, Asking & Giving Info., Placing Orders, Replies
May	Writing Skill	Article Writing
	Vistas	The Tiger King
June	Flamingo	An Elementary School Classroom in a Slum
	Reading	Reading Comprehension
July	Flamingo	Keeping Quiet
		Deep Water
		The Rattrap
	Vistas	Journey to the end of the Earth
		The Enemy
	Writing Skill	Advertisement
		Debate
August	Flamingo	A Thing of Beauty
		Indigo
		Poets and Pancakes
	Vistas	Should Wizard Hit Mommy?
	Writing Skill	Invitations & Replies
		Letter to Editor
September	Flamingo	Roadside Stand
		The Interview
	Vistas	On the face of it
	Writing Skill	Speech Writing
		Report Writing
		Job Application
October	Vistas	Evans Tries an O-Level
	Flamingo	Aunt Jennifer's Tigers
		Going Places
	Reading Skill	Note making & Summarizing
	Writing Skill	Poster Designing
November	Reading Skill	Reading Comprehension
	Vistas	Memories of Childhood
	Practice of Listening & Speaking Skills (ASL) & Revision for Pre-Board-1 Exams	
December	Revision for Pre-Board-2 Exams	
Jan-Feb	Assessment of Listening & Speaking Skills (ASL) & Revision for AISSCE-2020	

KENDRIYA VIDYALAYA :: MUZAFFARPUR
(PATNA REGION)
(SPLIT – UP SYLLABUS 2019-20)

CLASS – XII   **SUBJECT – GEOGRAPHY**

Month	Book-I, Fundamentals of Human Geography	Periods	Book-II, India: People & Economy	Periods	Practical work in Geography Part-II	Periods
April	Human Geography: Nature & Scope **People** *The World Population, Distribution, Density & Growth *Population Composition	23	People *Population: Distribution , Density , Growth & Composition *Migration: types; causes & consequences	12	nil	
May/ June	*Human Development	4	*Human Development	5	Processing of Data & Thematic Mapping *Data -Its sources & compilation	6
July	Human Activities: *Primary Activities *Secondary Activities *Tertiary, Quaternary & Quinary Activities	21	Human Settlements Resources & Development: *Land Resources & Agriculture	14	*Data Processing	6
August	Transport, Communication &Trade: *Transport & Communication *International Trade	16	Resources & Development: *Water Resources *Mineral & Energy Resources	16	* Graphical Representation of Data	8

Month						
September	Human Settlements	10	*Manufacturing Industries *Planning & Sustainable Development in Indian Context.	18	Thematic Mapping	8
October			Transport, Communication & International Trade: *Transport & Communication *International Trade	12	*Use of computer in Data Processing & Mapping	10
November	Map Work (revision)	4	Geographical Perspectives on Selected Issues & Problems *Map work (revision)	12 4	Field Survey/ Spatial Information Technology	15
	Revision					
December	Pre-Board 1(only Theory exam) Entire Syllabus:30(Book1)+5(world map for identification only) +30 (book 2)+5(India map for locating & labeling), Tentative date- 02-10 December,2019					
January	Pre-Board 2(only Theory exam) Entire Syllabus:30(Book1)+5(world map for identification only) +30 (book 2)+5(India map for locating & labeling), Tentative date- 16-23 January,2020					
February	Pre-Board 3(only Theory exam) Entire Syllabus:30(Book1)+5(world map for identification only) +30 (book 2)+5(India map for locating & labeling),			Tentative date-February,2020		

Note:- Bold letters indicate units & (*) mark indicates chapters.

PREPARED BY : SANJEEV KUMAR SINHA, PRINCIPAL , KV. MUZAFFARPUR

KENDRIYA VIDYALAYA SANGATHAN
PATNA REGION
SPLIT UP SYLLABUS
SESSION: 2019-20

Class: XI   **Subject: History**   **Full Marks:100**

Parts	S. No.	Name of the chapter	Month	No. of Working days	Learning Outcome	No. of periods	Weightage of Marks	Test/Exam
	1	Introduction to world History	June	10		8		
Part I Early society	2	From the Beginning of Time			Early human species,Evidences Chronological developments, Food habits, Differences, Tool, Making-art and Craft	40	19	
	3	Writing and City Life	July	26	Early city, Planning, Writing style, Evidences, Clay tablets, Texts, Early Library			
Part II Empire	4	An Empire across three continents			Roman empire, Polity, Economy, Rules and Rulers, Social life and slaves, Architecture	50	19	1st Periodic test Unit –1 and 2
	5	Central Islamic Lands	August	23	Extension of empire, Polity, Islam and its principles, Art and architecture, Islamic literature			
	6	Nomadic Empires			Extension of Nomadic Empire, Rulers, Contribution, Yasa, Ghensin Khan			
Part – III Changing Tradition	7	Three Orders	September	23	Feudal system, Manor, Society in France and England, Life of peasants	50	19	Half- yearly 3rd & 4th week of oct. Syllabus – upto sept.
	8	Changing Cultural Traditions			Revival of Italian cities, Humanism, Artists and realism, Universities and new subjects, Renaissance, Martin Luther protestant Movement			
	9	Confrontation of Cultures	October	15	Maya, Inca and Aztecs, Civilizations, Colonization of America by Spain			

Part- IV Towards modernization	10	The Industrial Revolution	November	23	Industrial Revolution, New machine and technology, Transport and communication, -Factory system	52	19	
	11	Displacing Indigenous People	December	17	Natives and settlers. Gold Rush, American Natives and Europeans, Growth of Industry, Australia			
	12	Paths to Modernization	January	17	Japan ,Political system, Meiji Restoration and Reforms, China, Republic, communist party, cultural revolution, Taiwan			2nd Periodic Test Chapters 8,9,10
	13	Revision Session Ending Exam	February March					Session Ending Examination will include entire Syllabus.
	14	Map Work(All Units)				10	4	
	15	Project Work				10	20	
		Total				220	100	

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

KENDRIYA VIDYALAYA SANGATHAN
PATNA REGION
SPLIT UP SYLLABUS
Session: 2019-20

Class: XII   **Subject: History**   **Full marks: 100**

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 Civilisation)	April	23	Ancient Urban Center as economic and social institution, Sources, Planning, Major sites	13	Part- I (25) Including one comprehension	MONTHLY TEST
2	Kings, Farmers and Towns		10	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			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	June		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 (24) 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	23	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	13		
9	Kings and Chronicles			Mughal court and Mughal cronicles , Akbarnama and Padsahnama, limitations	13		
10	Colonialism and the country side			Life of Zamindars, Peasants and artisans. Revenue settlements, official records, fifth report, Deccan Riot report	13		MT

11	Rebels and the Raj.	September	23	Representation of the Revolt of 1857,sources,causes ,Leaders, Centres, repressive measures, prophesies	13	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	15	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	23	Indian constitution, Ideals, Objective Resolution, leaders, committees, members, features, Language and Minority issue.	14		MT
		December	17	REVISION			PB-1
		January	17	REVISION			PB-2
		February		REVISION			
16	Map Work(All Units)				10	6	
17	Project Work				10	20	
18	Total				220	100	
	Note: There is no change in the syllabus. 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, PATNA 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

Month	Content		
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
October	**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 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 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-March	Revision, Project Work , Session Ending Practical Examination & SE Exam		

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, PATNA 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 ☐ Safely accessing web sites: adware, malware, viruses, Trojans.Safely communicating data: secure connections, eavesdropping, and phishing and identity verification.	10	
Feb.-Mar	**Revision, Project Work , Session Ending Practical Examination & SE Exam**		

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, PATNA 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 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 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 NOV	**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, PATNA 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-	☐ **Pre-Board Examination**		
	☐**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, PATNA REGION

SPLIT UP OF SYLLABUS FOR THE SESSION 2019-20

SUBJECT :- MATHS   **CLASS :- XII**

S.No.	MONTHS	CHAPTERS/TOPICS
1.	APRIL	1. RELATIONS AND FUNCTIONS 2. INVERSE TRIGONOMETRIC FUNCTIONS
2.	MAY & JUNE	3. MATRICES
3.	JULY	4. DETERMINANTS 5. CONTINUITY AND DIFFERENTIABILITY
4.	AUGUST	6 APPLICATIONS OF DERIVATIVES 7. INTEGRALS
5.	SEPTEMBER	8. APPLICATIONS OF INTEGRALS 9. DIFFERENTIAL EQUATIONS
	HALF YEARLY EXAM 17/10/2019 TO 26/10/2019	
6.	OCTOBER	10. VECTORS 11. THREE-DIMENSIONAL GEOMETRY
7.	NOVEMBER	12. LINEAR PROGRAMMING 13. PROBABILITY
8.	DECEMBER	I st PRE BOARD AND REVISION
9.	JANUARY	II nd PRE BOARD AND REVISION
10.	FEBRUARY	REVISION AND PRACTICE OF MODEL QUESTION PAPERS (3rd Pre Board if necessary)
11.	MARCH	FINAL BOARD EXAMINATION

KENDRIYA VIDYALAYA SANGATHAN, PATNA REGION

SPLIT UP OF SYLLABUS FOR THE SESSION 2019-20

SUBJECT :- MATHS   **CLASS :- XI**

3	MONTHS	CHAPTERS/TOPICS
1.	JUNE & JULY	1 Sets 2 Relations & Functions 3 Trigonometric Functions UPTO graphs of trigonometric functions
2.	FIRST UNIT TEST 01/08/2019 TO 08/08/2019	
3.	AUGUST	4. Trigonometric Functions CONTINUED 5. Principle of Mathematical Induction 6. Complex Numbers and Quadratic Equations
4.	SEPTEMBER	7. Linear Inequalities 8. Permutations and Combinations 9. Binomial Theorem
5.	HALF YEARLY EXAM 17/10/2019 TO 26/10/2019	
6	OCTOBER	10. Sequence and Series
7.	NOVEMBER	11. Straight Lines 12. Conic Sections 13. Introduction to Three-dimensional Geometry
8.	DECEMBER	14. Limits and Derivatives 15. Mathematical Reasoning
9.	SECOND UNIT TEST 13/01/2020 TO 18/01/2020	
10.	JANUARY	16. Statistics
11.	FEBRUARY	17. Probability REVISION AND PRACTICE OF MODEL QUESTION PAPERS
12.	MARCH	YEARLY EXAM 04/03/2020 TO 19/03/2020

KENDRIYA VIDYALAYA SANGATHAN
SPLIT UP SYLLABUS (2019-2020)
SUB: PHYSICS   CLASS: XII
REVIEWED SPLIT-UP SYLLABUS

MONTH	W.Day	UNIT & CHAPTER	Chap Wise Classes required	MARKS	PERIOD ALLOTED	EXAM	PRACTICALS
APRIL 2019	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.To find resistance of a given wire using metre bridge and hence determine the resistivity (specific resistance) of its material** ACTIVITY -1 AND ACTIVITY-2
		2.ELECTROSTATIC POTENTIAL AND CAPACITANCE	11				
MAY AND JUNE 2019	18	3. CURRENT ELECTRICITY	18		20	Monthly Test-1 **May 1-6, 2019**	**3.** To verify the laws of combination (series) of resistances using a meter bridge. ACTIVITY -3 AND ACTIVITY- 4 **4.To verify the laws of combination (parallel) of resistances using a meter bridge** **5.** To compare the EMF of two given primary cells using potentiometer.
JULY 2019	26	**4.** MOVING CHARGES AND MAGNETISM	14	17	22	MONTHLY TEST-2 **July 1-6, 2019**	**6.** To determine the internal resistance of given primary cell using potentiometer. **7.** To determine resistance of a galvanometer by half-deflection method and to find its figure of merit. **8. To find the value of *v* for different values of *u* in case of a concave mirror and to find the focal length.**
		5. MAGNETISM AND MATTER	08				

Month	Periods	Chapter	Periods	Col	Col	Test	Practicals
AUG 2019	24	6.ELECTROMAGNETIC INDUCTION	12	18	20	MONTHLY TEST -3 **Aug 1-6, 2019**	9.To find the focal length of a convex mirror, using a convex lens. 10.To find the focal length of a convex lens by l plotting graphs between *u* and *v* or between *1/u* and *1/v*. ACTIVITY -5 11. **To find the focal length of a concave lens, using a convex lens.**
		7.ALTERNATING CURRENT	8				
		8. ELECTROMAGNETIC WAVES	4		04		
SEPT 2019	22	**9.** RAY OPTICS AND OPTICAL INSTRUMENTS **10.** WAVE OPTICS	27	12	27	MONTHLY TEST -4 **Sep 1-6, 2019**	12.To determine angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation. 13.To determine refractive index of a glass slab using a travelling microscope. 14.To find refractive index of a liquid by using convex lens and plane mirror.
OCT 2019	17	**11.** DUAL NATURE OF RADIATION & MATTER	8	7	8	**MONTHLY TEST -5** **Oct 1-5, 2019**	**15.** To draw the I-V characteristic curve for a p-n junction in forward bias and reverse bias. **16.** To draw the characteristic curve of a zener diode and to determine its reverse breaks down voltage. **17.** To find the frequency of AC mains with a Sonometer. **18.** To convert the given Galvanometer into a Voltmeter of desired range and to verify the same.
		12. ATOMS	7		15		
		13. NUCLEI	8				
15th NOV 2019	24	14. SEMICONDUCTORS ELECTRONICS: MATERIALS, DEVICES AND SIMPLE CIRCUITS.	12		12		**19**. To convert the given Galvanometer into an Ammeter of desired range and to verify the same. **20**.To determine the wave length of a laser beam by diffraction.
Total	**153**		150	70	150		
DEC 2019	**FIRST PRE-BOARD AS PER CBSE CURRICULUM 2 – 10 DECEMBER,2019 (Whole Syllabus)**						
JAN 2020	**SECOND PRE-BOARD AS PER CBSE CURRICULUM, 16 – 23 JANUARY, 2020.**						
Feb 2020 Upto 10th	**AISSCE 2020 Practicals from 2nd half of January upto 1st half of February**						

NOTE: 1. As per CBSE Curriculum (2019-2020) 15 experiments [with a minimum of 6 from each section] has to be performed by students & at least 5 activities [with a minimum of 2 Activities each from section A and section B], should be demonstrated by teacher .Mentioned experiments are for reference only. Teacher may choose any 15 experiments from the list of practical provided by CBSE (2019-2020).

2. One investigatory project must be completed by the students and should be submitted at the time of AISSCE practical examination.

 Passing criterion: As per CBSE norms.

EXAMINATION PATTERN (CLASS-XII -Physics) 2019-2020

EXAM→	MONTHLY TEST	PRE- BOARD EXAM	PRACTICAL EXAMINATION
DURATION→	3- HRS	3- HRS	3-HRS
PATTERN OF QUESTIONS→	20X1=20 7X2=14 7X3=21 3X5=15	20X1=20 7X2=14 7X3=21 3X5=15	1)TWO EXPERIMENTS (ONE FROM EACH SECTION) = 2X8 =16 2) RECORD (EXPT+ACTIVITY) = 06 3) INVESTIGATORY PROJECT = 03 4)VIVA = 05
MARKS→	70 MARKS(37 QUESTIONS)	70 MARKS(37 QUESTIONS)	(30 MARKS)

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