

KENDRIYA VIDYALAYA SANGATHAN



SPLIT UP SYLLABUS

(SCIENCE STREAM)

Class – XI

2008-09

PREPARED BY

KENDRIYA VIDYALAYA SANGATHAN (Delhi Region)

Index

S.No	Subject	Page No.
1.	English (Core)	03 – 09
2.	Hindi (Core)	10 – 13
3.	Physics	14 – 20
4.	Chemistry	21 – 27
5.	Mathematics	28 – 34
6.	Biology	35 – 38
7.	Computer Science	39 – 48
8.	Economics	49 – 52

SCIENCE STREAM

Split-up Syllabus For Session 2008-09
Class-XI
English Core (For Summer Station KV's)

Month	Tentative teaching periods	1. Course Book Horbill 2. Supp. Reader- Snapshots	No. of Periods	Reading/Writing Skills	No. of Periods	Grammar	No. of Periods	CAL
June-08	7	Introduction to curriculum of English Core XIth The Portrait of a Lady	1 3	Reading Comprehension	1	Determiners	2	10 periods of computer aided learning
Jul-08	25	We're not afraid to die		Note making	4+1	Modals	3	
		A Photograph	2	Notice	3			
		The summer of the Beautiful White horse	3	Letter writing	2			
				Letter of Enquiry	2			
Aug-08	23	Ranga's Marriage	4	Note making	3			
		DiscoveringThe saga continues	5	Letter of Complaint	2	Tenses	6	
		The Address	3					
Sep-08	25	Albert Einstein at School The Laburnu	4			Voices	4	
		top (poem)	2	Essay writing	2	Clauses	4	
		Landscape of the soil	5	Application for jobs	2			
		The voice of the rain	2					

Oct-08	11	The Mother Day The Ailing Planet-The Green Movement Role	5				
Nov-08	23	The Browning Version	4	Reading comprehension Cumulative Examination	2	Revision + Practice	10
		Childhood (poem) The Ghost of the only World	3 4				
Dec-08	17	An Adventure	5	Summarising	3	Jumbled words	2
		Birth	4			Grammar Practice	3
Jan-08		Silk Road	5	Letter to Editor	4	Grammar Practice	5
		Father to son (poem)	3				
		The tale of the Melon City	3	Note making	4		
Feb & Mar 09	Revision work + session ending Examination						

SYLLABUS

One Paper

3 Hours

Marks : 100

Unitwise Weightage

Unit/Areas of Learning		Marks
A. Reading Unseen Passages (Two)	20	
B. Writing	20	50
C. Grammar	10	
D. Textual Questions		
(i) Text book	30	
(ii) Supplementary Reader	10	40
E. Conversation Skills		
(i) Listening	05	
(ii) Speaking	05	10

SECTION A : READING

20 Marks

40 Periods

Reading Unseen Passages for Comprehension and Note-making

Two unseen passage with a variety of questions including 5 marks for vocabulary such as words formation and inferring meaning. The total length of both the passages together should be around 1100 words.

The passage could be any of the following two types :

- (a) Factual passages e.g. instructions, descriptions, reports.
- (b) Discursive passages involving opinion e.g. argumentative, persuasive.

SUMMARY – Class XI

Unseen Passages	No. of words	Testing Areas	Marks Allotted
1. 12 Marks	around 600	Short answer type questions to test local, global and inferential comprehension	10
		Vocabulary	02
2. 08 Marks	around 500	Note-making in an appropriate format	05
		Vocabulary	03

One of the passages should have about 600 words carrying 12 marks, the other passage should have about 500 words carrying 8 marks.

The passage carrying 08 marks should be used for testing note-making for 5 marks and testing vocabulary for 3 marks.

Vocabulary for 2 marks may be tested in the other passage carrying 12 marks.

SECTION B : WRITING

20 Marks

40 Periods

- | | | |
|----|---|----|
| 3. | One out of two tasks such as a factual description of any event or incident, a report or a process based on verbal input provided (80-100 words). | 04 |
| 4. | One out of two compositions based on a visual and/or verbal input in about (100-150 words.).
The output may be descriptive or argumentative in nature such as an article for publication in a newspaper or a school magazine or a speech. | 08 |
| 5. | Writing one out of two letters based on given input. Letters types include (a) business or official letters (for making enquiries, registering complaints, asking for and giving information, placing orders and sending replies);
(b) letters to the editors giving suggestions, opinions on an issue of public interest or; (c) application for a job. | 08 |

SECTION C : GRAMMAR**10 Marks****30 Periods**

Different grammatical structures in meaningful contexts will be tested. Item types will include gap-filling, sentence-reordering, dialogue-completion and sentence-transformation.

The grammar syllabus will include the following areas :

- | | |
|--|---|
| 6. Determiners, Tenses, Clauses, Modals and Error Correction | 4 |
| 7. Editing Task | 4 |
| 8. Reordering of sentences | 2 |

SECTION D : TEXTUAL QUESTIONS**40 Marks****100 Periods**

Questions on the prescribed textbooks will test comprehension at different levels : literal, inferential and evaluative based on the following prescribed text books :

1. English reader Text book, published by NCERT, New Delhi.
2. Supplementary Reader, Published by NCERT, New Delhi.

English Reader Text book**30 Marks**

- | | |
|--|----|
| 9. One out of two extracts based on poetry from the text to test local and global comprehension and appreciation. | 4 |
| 10. Two out of three short answer questions from the poetry section to test local and global comprehension of text (upto 30 words). | 6 |
| 11. Five out of six short answer questions on the lessons from prescribed text (upto 30 words). | |
| 12. One out of two long answer type questions based on the text to test global comprehension and extrapolation beyond the set text. (Expected word limit would be about 100-125 words each.) | 10 |

Supplementary Reader**10 Marks**

- | | |
|---|-----------|
| 13. One out of two long answer type questions based on Supplementary Reader to test comprehension of theme, character and incidents from the set text. (upto 100 words) | 4 |
| 14. Two out of three short answer questions from the Supplementary Reader (upto 30 words). | 3 + 3 = 6 |

Conversation Skills (Listening + Speaking)

Conversation skills will be tested both as part of Continuous Assessment and at the final examination. Out of the 10 marks allotted for conversation, 05 marks may be used for testing Listening and 05 marks may be used for testing Speaking. The Conversation Skills Assessment Scale may be used for evaluating.

Listening

The examiner will read aloud a passage based on a relevant theme or a short story. The passage may be factual or discursive. The length of the passage should be around 350 words. The examinees are expected to complete the listening comprehension tasks given in a separate sheet while listening to the teacher. The tasks set may be gap-filling, multiple choice, true or false or short answer questions. There may be ten different questions for half a mark each.

Speak

Narration based on a sequence of pictures. In this section the candidate will be required to use narrative language. Description of a picture (can be pictures of people or places).

Speaking on a given topic to test recall of a personal experience.

NOTE :

- At the start of the examination the examiner will give the candidate some time to prepare. In case of narration the present tense should be used.
- Topics chosen should be within the personal experience of the examinee such as : relating a funny anecdote, retelling the theme of a book read or a movie seen recently.
- Once the candidate has started, the examiner should intervene as little as possible.

Conversation Skills Assessment Scale

Listening

The learner :

1. has general ability to understand words and phrase in a familiar context but cannot follow connected speech;
3. has ability to follow short connected utterances in a familiar context;
5. has ability to understand explicitly stated information in both familiar and unfamiliar contexts;
7. Understands a range of longer spoken texts with reasonable accuracy and is able to draw inferences.
9. shows ability to interpret complex discourse in terms of points of view; adapts listening strategies to suit purpose.

Speaking

The learner :

1. shows ability to use only isolated words and phrases but cannot operate on connected speech level;
3. in familiar situations, uses only short connected utterances with limited accuracy;
5. shows ability to use more complex utterances with some fluency in longer discourse; still makes some errors which impede communication;
7. Organizes and presents thoughts in a reasonably logical and fluent manner in unfamiliar situations; makes errors which do not interfere with communication.
9. can spontaneously adapt style appropriate to purpose and audience; makes only negligible errors.

पाठ्यक्रम विभाजन 2008-09 (ग्रीष्मावकाश कालीन विद्यालय

कक्षा : ग्यारहवीं

हिन्दी (केन्द्रिक)

माह	पुस्तक	पाठ्यक्रम	अपेक्षित कालांश	कम्प्यूटर कालांश	पूर्ण कालांश
जून-जुलाई	आरोह-1 वितान भाग-1 पूरक पुस्तक जनसंचार और रचनात्मक लेखन-1	गद्यखंड- कृष्ण सोबती-मियाँ नसीरुद्दीन काव्य खंड- कबीर दास (1) हम तौ एक एक करि जानां (2) संतों देखत जग बौराना मीरा- (1) मेरे तो गिरधर गोपाल दूसरो न कोई (2) पग घुंघरू बांधि मीरां नाची भारतीय..... (कुमार गंधर्व) अपठित बोध-गद्य कार्यालयी पत्र की पद्धति और नमूने समाचार प्रिंट मीडिया			30
अगस्त	आरोह-1	गद्य खंड- सत्यजीत राय-अप्पू के साथ ढाई साल			23

	वितान पूरक पुस्तक-1 जनसंचार और रचनात्मक लेखन	काव्य खंड- रामनरेश त्रिपाठी.....पथिक राजस्थान..... (अनुपम मिश्र) रोजगार संबंधी आवेदन-पत्र की लेखन विधि और उसके नमूने, सम्पादकीय अपठित बोध-पद्य			
सितम्बर	आरोह-1 वितान पूरक पुस्तक-1 जनसंचार और रचनात्मक लेखन-1	गद्य खंड- बालमुकुन्द गुप्त-विदाई सम्भाषण शेखर जोशी-गलता लोहा पद्य खंड सुमित्रानंदन पंत-वे आँखें राजस्थान..... (अनुपम मिश्र) स्ववृत्त लेखन की विधि और नमूने, रिपोर्ट-आलेख निबंध-सामाजिक विषयों पर			23
अक्टूबर	आरोह-1	गद्य खंड- कृष्णनाथ-स्पीति में बारिश काव्य खंड- भवानी प्रसाद मिश्र-घर की याद			17

	जनसंचार और रचनात्मक लेखन-1	विभिन्न विभागों (पानी, बिजली, टेलीफोन, परिवहन आदि) से संबंधित समस्याओं के बारे में अधिकारियों को लिखे जाने वाले पत्र के नमूने निबंध लेखन-साहित्यिक विषयों पर			
नवम्बर	आरोह-1	गद्यखंड- मन्नू भंडारी-रजनी पद्य खंड- त्रिलोचन-चंपा काले-काले अक्षर नहीं चीन्हती			24
दिसम्बर	आरोह वितान पूरक पुस्तक-1 जनसंचार और रचनात्मक लेखन	गद्य खंड- कृश्नचंदर-जामुन का पेड़ काव्य खंड- दुष्यंत कुमार गजल-साये में धूप अक्क महादेवी- (1) हे भूख! मत मचल (2) हे मेरे जूही के फूल जैसे ईश्वर। आलो-आँधारि : बेबी हालदार विज्ञापन लेखन की विधि और उसके उदाहरण, शब्द कोश, संदर्भ ग्रंथों का परिचय और उपयोग विधि की जानकारी।			17

जनवरी	आरोह-1 जनसंचार और रचनात्मक लेखन वितान पूरक पुस्तक-1	गद्य खंड- जवाहरलाल नेहरू-भारत माता काव्य खंड गैर पारम्परिक एवं अप्रत्याशित विषयों (मसलन- किसानों की आत्महत्या, हिंसक विज्ञापन, कामकाजी औरत की शाम) पर अनुच्छेद एवं निबंध के नमूने, फीचर लेखन आलो-आँधारि : बेबी हालदार			25
फरवरी	आरोह-1 जनसंचार.....	गद्य खंड- सैयद हैदर रजा-आत्मा का ताप काव्य खंड- निर्मला मृदुल-आओ मिलकर बचाएँ भाषण, उद्घोषणा, स्वागत भाषण, संगोष्ठी संचालन, आँखों देखा हाल आदि के प्रभावी सम्प्रेषण के लिए उपयुक्त शब्दावली, भाषा रूपों अभिव्यक्तियों आदि की जानकारी पुनरावृत्ति			21 टिप्पणी- जनसंचार एवं रचनात्मक लेखन पुस्तक के अन्तर्गत दिए गए विषयों का आधार के.मा.शि.बोर्ड का सीनियर स्कूल करिक्यूलम 2008 हो इससे संबंधित जानकारी पृष्ठ 44 पर है। इन विषयों का प्रयोग पत्र एवं निबंध लेखन हेतु भी किया जा सकता है।
मार्च		पुनरावृत्ति			

KENDRIYA VIDYALAYA SANGATHAN SPLIT UP SYLLABUS FOR CLASS XI (2008-09)
(PHYSICS)
SUMMER STATION

MONTH	WORKING DAYS	NAME OF THE TOPIC	DETAILED SPLIT UP	PERIOD FOR CLASS ROOM TEACHING	PERIOD FOR COMPUTER AIDED TEACHING	TOTAL PERIOD
JUNE	06	UNIT 1 : Physical World and measurement (3 Marks)	Physics-scope an excitement; nature of physical laws; Physics, technology and society. need for measurement : Units of measurement; systems of units; SI units, fundamental and derived units.	05	–	05
JULY	26	UNIT 1 : Contd UNIT 2 : Kinematics (10 Marks)	Length, mass and time measurements; accuracy and precision of measuring instruments; errors in measurement; significant figures. Dimensions of physical quantities, dimensional analysis and its applications. Frame of reference. Motion in a straight line : Position-time graph, speed and velocity. Uniform and non-uniform motion, average speed and instantaneous velocity. Uniformly accelerated motion, Velocity-time, position-time graphs, relations for uniformly accelerated motion (graphical treatment) Elementary concepts of differentiation and integration for describing motion.	24	02	26

KENDRIYA VIDYALAYA SANGATHAN SPILT UP SYLLABUS FOR CLASS XI (2008-09)
(PHYSICS)
SUMMER STATION

MONTH	WORKING DAYS	NAME OF THE TOPIC	DETAILED SPLIT UP	PERIOD FOR CLASS ROOM TEACHING	PERIOD FOR COMPUTER AIDED TEACHING	TOTAL PERIOD
AUGUST	24	UNIT 2 : Contd UNIT 3 : Laws of Montion (10 Marks)	Scalar and vector quantities: Position and displacement vectors, general vectors and notation, equality of vectors, multiplication of vectors by a real number; addition and subtraction of vector. Relative velocity. Unit vector; Resolution of a vector in a plane-rectangular components. Motion in a plane. Cases of uniform velocity and uniform acceleration-projectile motion. Uniform circular motion. Intutive concept of force. Inertia, Newton's first law of motion; momentum and Newton's second law of motion; impulse; Newton's Third law of motion. Law of conservation of linear momentum and its applications. Equilibrium of concurrent forces. Static and kinetic friction, laws of friction, rolling friction. Dynamics of uniform circular motion: Centripetal force, examples of circular motion (vehicle on level circular road, vehicle on banked road).	22	02	24

KENDRIYA VIDYALAYA SANGATHAN SPLIT UP SYLLABUS FOR CLASS XI (2008-09)
(PHYSICS)
SUMMER STATION

MONTH	WORKING DAYS	NAME OF THE TOPIC	DETAILED SPLIT UP	PERIOD FOR CLASS ROOM TEACHING	PERIOD FOR COMPUTER AIDED TEACHING	TOTAL PERIOD
SEPTEMBER	23	UNIT 4: Work, Energy and Power (06 Marks)	Scalar product of vectors. Work done by a constant force and a variable force; kinetic energy, work-energy theorem, power. Notion of potential energy, potential energy of a spring, conservative forces: conservation of mechanical energy (kinetic and potential energies); non-conservative forces; elastic and inelastic collisions in one and two dimensions.	21	02	23
SEPTEMBER Contd.		UNIT 5 : Motion of System of Particle & Rigid body (06 Marks)	Centre of mass of a two-particle system, momentum conservation and centre of mass motion. Centre of mass of a rigid body; centre of mass of uniform rod. Vector product of vectors; moment of a force, torque, angular momentum, conservation of angular momentum with some examples. Equilibrium of rigid bodies, rigid body rotation and equations of rotational motion, comparison of linear and rotational motions; moments of inertia, radius of gyration.			

KENDRIYA VIDYALAYA SANGATHAN SPLIT UP SYLLABUS FOR CLASS XI (2008-09)
(PHYSICS)
SUMMER STATION

MONTH	WORKING DAYS	NAME OF THE TOPIC	DETAILED SPLIT UP	PERIOD FOR CLASS ROOM TEACHING	PERIOD FOR COMPUTER AIDED TEACHING	TOTAL PERIOD
OCTOBER	18	Unit 5 : Continued	Values of moments of inertia for simple geometrical objects (no derivation). Statement of parallel and perpendicular axes theorems and their applications.			
OCTOBER	18	UNIT 6 : Gravitation (05 Marks)	Keplar's laws of planetary motion. The universal law of gravitation. The universal law of gravitation. Acceleration due to gravity and its variation with altitude and depth. Gravitational potential energy; gravitational potential. Escape velocity. Orbital velocity of a satellite Geostationary satellites.	16	02	18
NOVEMBER	13	UNIT 7 : Properties of Bulk Mater (10 Marks)	Elastic behaviour, Stress-strain relationship, Hooke's law, Young's modulus, shear, Modulus of rigidity. Pressure due to a fluid column; Pascal's law and its applications (hydraulic lift and hydraulic brakes). Effect of gravity on fluid pressure and revision for half yearly examination.	11	02	13

KENDRIYA VIDYALAYA SANGATHAN SPLIT UP SYLLABUS FOR CLASS XI (2008-09)
(PHYSICS)
SUMMER STATION

MONTH	WORKING DAYS	NAME OF THE TOPIC	DETAILED SPLIT UP	PERIOD FOR CLASS ROOM TEACHING	PERIOD FOR COMPUTER AIDED TEACHING	TOTAL PERIOD
DECEMBER	18	UNIT 7 : Contd. UNIT 8 : Thermo- daynamics (05 Marks)	Viscosity, Stokes' law, terminal velocity, Reynold's number, streamline and turbulent flow. Bernoulli's theorem and its applications. Surface energy and surface tension, angle of contact, application of surface tension ideas to drops, bubbles and capillary rise. Heat, temperature, thermal expansion; specific heat-calorimetry; change of state latent heat. Heat transfer-condition, convection and radiation, thermal conductivity, Newton's law of cooling. Thermal equilibrium and definition of temperature (zeroth law of thermodynamics). Heat, work and internal energy. First law of thermodynamics: reversible and irreversible processes. Heat engines and refrigerators.	22	02	24
JANUARY 2009	24	UNIT 9 : Behaviour of perfect gas and kin- etic theory of gases (05 Marks)	Equation of state of a perfect gas, work done on compressing a gas. Kinetic theory of gases-assumptions, concept of pressure. Kinetic energy and temperature; rms speed of gas molecules; degrees of freedom, law of equipartition of energy (statement only) and application to specific heats of gases; concept of mean free path, Avogadro's number.	22	02	24

KENDRIYA VIDYALAYA SANGATHAN SPLIT UP SYLLABUS FOR CLASS XI (2008-09)
(PHYSICS)
SUMMER STATION

MONTH	WORKING DAYS	NAME OF THE TOPIC	DETAILED SPLIT UP	PERIOD FOR CLASS ROOM TEACHING	PERIOD FOR COMPUTER AIDED TEACHING	TOTAL PERIOD
		UNIT 10 : Oscillations & Waves (10 Marks)	Periodic motion-period, frequency, displacement as a function of time. Periodic functions. Simple harmonic motion (S.H.M.) and its equation; phase; oscillations of a spring-restoring force and force constant; energy in S.H.M.-kinetic and potential energies; simple pendulum-derivation of expression for its time period; free, free and damped oscillations (qualitative ideas only), resonance.			
FEBRUARY 2009	23	Oscillations & Waves Contd.	Wave motion. Longitudinal and transverse waves, speed of wave motion. Displacement relation for a progressive wave. Principle of Superposition of wave, reflection of waves, standing waves in strings and organ pipes fundamental mode and harmonics, beats, doppler effect. Revision for Session Ending Examination 2008.	21	02	23

SCHEDULE FOR PRACTICALS & ACTIVITIES

MONTH	NO. OF EXPERIMENTS/ACTIVITIES
JULY	Two experiment section (A) two activities section (A)
AUGUST	Two experiment section (A) one activity section (A)
SEPTEMBER	One experiment section (A) one activity section (A)
OCTOBER	One experiment section (B) one activity section (B)
NOVEMBER	one experiment section (B) one activity section (B)
NOVEMBER	HALF YEARLY PRACTICAL EXAMINATION
DECEMBER	Two experiments section (B) one activity section (B)
JANUARY	One experiment section (B) one activity section (B)
FEBRUARY	Investigated project/revision-Session Ending Exam of physics practical between 3rd & 4 week.

Split-up Syllabus For Session 2008-09 (For Summer Vacation School)

Class XI

Code Structure Chemistry (Theory)

(Code No. O43)

Title	Marks	No. of Pds.
Some Basic concepts of chemistry	3	10
Structure of Atom	6	12
Classification of Elements and periodicity in Properties	4	05
Chemical Bonding And Molecular Structure	5	12
States of Matter : Gases and Liquids	4	07
thermodynamics	6	12
Equilibrium	6	12
Redox Reactions	3	05
Hydrogen	3	06
S-Block Elements	5	10
Some P-Block Elements	7	15
Organic Chemistry: Some Basic Principles and Techniques	7	15
Hydrocarbons	8	15
Environmental Chemistry	3	05
Total	70	141

Class-XI (Practical)

Time : 3 Hours

One Paper

30 Marks

Volumetric Analysis	10 Marks
Salt Analysis	06 Marks
Content Based Experiment	04 Marks
Investigatory Project	05 Marks
Class Record and Viva	04 Marks

Split-up Syllabus for Session 2008-09

Chemistry (Theory)

Class – XI

Month	Distribution of Syllabus (Name of Unit Detailed Split up)	No. of (Pds.)
June-July	Unit I : Some Basic Concepts of Chemistry General Introduction : Importance and scope of chemistry Historical approach to particulate nature of matter, laws of chemical combination. Daltons 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
	Unit II : Structure of Atom Discovery of electron, proton and neutron; atomic number, isotopes and isobars. Thomsons's model and its limitations, Rutherford's model and its limitations. 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 d orbitals, rules of filling electrons in orbitals-Aufbau principle, Pauli exclusion principle and Hund's rule, electronic configuration of atoms, stability of half filled and completely filled orbitals.	12
	Unit III : Classification of Elements and Periodicity in Properties Significance of classification, brief history of the development of periodic table, modern periodic law and the present form of periodic table, periodic trends in properties of elements atomic radii, inert gas radii. Ionisation enthalpy, electronegativity, valence. 05	05

	FIRST TERM UNIT TEST	
August	<p>Unit IV : Chemical Bonding and Molecular Structure Valence electrons, ionic bond, covalent 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 impetuous, Molecular orbital; theory of homo nuclear diatomic molecules (qualitative idea only), hydrogen bond.</p> <p>Unit V : States of Matter : gases and liquids Three states of matter, Intermolecular interactions, type 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, numerical derivation of gas equation, Avogadro's number. Ideal gas equation. Derivation from ideal behaviour, liquefaction of gases, critical temperature. Liquid State : Vapour Pressure, Viscosity and Surface tension (qualitative idea only, no mathematical derivations)</p> <p>Unit VI : Thermodynamics Concepts of System, types of systems, surroundings. Work, heat, energy, extensive and intensive and intensive properties, states functions. First Law of thermodynamics-internal energy and enthalpy, heat capacity and specific heat, measurement of DU and * H, Hess's law of constant heat summation, enthalpy of : bond dissociation, combustion, formation, atomization, sublimation. Phase transition, ionization, and dilution. Thermo Dynamics Continued : Introduction of entropyequilibrium.</p>	<p>12</p> <p>07</p> <p>12</p>
Sept.	<p>Unit 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, concept of pH. Hydrolysis of salts (elementary idea). Buffer solutions, solubility product, common ion effect (with illustrative examples).</p> <p>Unit VIII : Redox Reactions Concept of oxidation and reduction, redox reactions, oxidation number, balancing redox reactions, applications of redox reactions.</p>	<p>12</p> <p>05</p>

SECOND TERM UNIT TEST		
October	<p>Unit 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; hydrogen as a fuel.</p>	06
REVISION & HALF YEARLY EXAM.		
November	<p>Unit X : s- Block Elements (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 halogen; uses. Preparation and properties of some important compounds: Sodium carbonate, sodium chloride, sodium hydroxide and sodium hydrogen carbonate, biological importance of sodium and potassium. CaO, CaCO₃ and industrial use of lime and limestone, biological importance of sodium and potassium. CaO, CaCO₃ and industrial use of limestone, biological importance of Mg and Ca.</p> <p>Unit 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 element of the group; Boron-physical and chemical properties, some important compounds : borax, boric acids, boron hydrides. Aluminium : uses, reactions with acids and alkalies. Group 14 elements : general introduction, electronic configuration, occurrence, variation of properties, oxidation states, trends in chemical reactivity, anomalous behaviour of first element, Carbon-catenation, allotropic forms, physical and chemical properties : uses of some important compounds : oxides.</p>	10
December	<p>Unit XII : Organic Chemistry-Some Basic Principles and Techniques General Introduction, method, qualitative analysis, classification and IUPAC nomenclature of organic compounds.</p>	15

	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.	
January 2008-09	<p>Unit XIII : Hydrocarbons</p> <p>Classifications of hydrocarbons</p> <p>Alkanes-Nomenclature, isomerism, conformations (ethane only), physical properties, chemical reactions including free radical mechanism or halogenation, combustion and pyrolysis.</p> <p>Alkenes-Nomenclature, structure of double bond (ethene), geometrical isomerism, physical properties, methods of preparation; chemical reactions : addition of hydrogen, halogen, water, hydrogen halides (Markovnikov's addition and peroxide effect), ozonolysis, oxidation mechanism of electrophilic addition.</p> <p>Alkynes- Nomenclature, structure of triple bond (ethyne), physical properties. Methods of preparation, chemical reaction : acidic character of alkynes, addition reaction of hydrogen, halogens, hydrogen halides and water.</p> <p>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 function group in mono-substituted benzene; carcinogenicity and toxicity.</p>	13
February & March	<p>Unit XIV : environmental Chemistry</p> <p>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, strategy for control of environmental pollution.</p>	05
	REVISION & SESSION ENDING EXAMINATION	

Chemistry (Practicals)

Month	Exp. No.	List of Experiments	Apparatus	Materials	No. of Periods
July	01	Determination of melting point of organic compound.	Burner, Tripod stand Beaker, capillary tube, thermometer, stand, wire gauze.	Any organic solid (ex-naphthalene)	06
	02	Determination of boiling point of organic compound.	Burner, Tripod stand Beaker, thermometer, stand, fusion tube.	Any organic liquid (ex-Benzene)	
August	03	Crystallization involving impure sample of any one of the following[Alum, Copper sulphate]	China dish, Beaker, tripod stand, Glan rod	CuSo4 or Alum, H2So4, Filter paper.	06
	04	Determination of pH of same solution- Fruit Juice, acds,basis, salts.	Test tube, Dropper	pH paper or Universal indicator	
	05	study the shift in equilibrium between ferric ions & thiocyanate ions by increasing/decreasing the concentration of either ions.	Test tube, Test tube stand, Dropper.	Ferric salt & Thiocyanate salt.	
Sept.	06	(Volumetric Analysis) Preparation of standard solution of oxalic acid.	Volumetric flask, beaker, watch glan, balance, weight box, fractional weight etc.	Oxalic acid	16
	07	Determination of strength of a given solution of HCl or oxalic acid by titrating it against standard Na ₂ CO ₃ or NaOH solution.			16

	08	Find out the strength of provided NaOH solution titrating it with standard solution of oxalic acid			
October-November	09	Qualitative Analysis Determination of one anion and one cation in the given salt : Cations -Pb ⁺² , Cu ⁺² , Al ⁺³ , Fe ⁺³ , Mn ⁺² , Ni ⁺² , CO ⁺² , Zn ⁺² , Ca ⁺² , Sr ⁺² , Ba ⁺² , Mg ⁺² , NH ₄ ⁺ Anions -CO ₃ ²⁻ , S ²⁻ , SO ₃ ²⁻ , SO ₄ ²⁻ , NO ₂ ⁻ , NO ₃ ⁻ , Cl ⁻ , Br ⁻ , I ⁻ , PO ₄ ³⁻ , CH ₃ COO ⁻ , C ₂ O ₄ ²⁻			25
December		Detection of Nitrogen, Sulphur and Chlorine, Bromine and Iodine from the given organic compound.			12
		Project-Work			
January		Revision of some difficult experiments			

**KENDRIYA VIDYALAYA SANGATHAN
SPLIT UP SYLLABUS FOR CLASS XI
MATHEMATICS (2008-09)
SUMMER STATION**

Paper One

Time : 3 Hours

Marks : 100

Units	Topics	Marks	Periods CBSE
I	1. Sets	12	
	2. Relations and Functions	29	14
	3. Trigonometrions		18
II	1. Principle of Mathematical Inductions		06
	2. Complex Numbers and Quadratic-Equations		10
	3. Linear Inequalities		10
	4. Permutations and Combinations	37	12
	5. Binomial-Theorem		08
	6. Sequence and Series		10
III	1. Straight Lines		09
	2. Conic Sectionms	13	12
	3. Three Dimensional Geometry		08
IV	1. Limits and Derivatives	06	18
V	1. Mathematical Reasoning	03	08
VI	1. Statistics	12	10
	2. Probability		10
	Total	100	175

**KENDRIYA VIDYALAYA SANGATHAN
SPLIT UP SYLLABUS FOR CLASS XI
MATHEMATICS (2008-09)
SUMMER STATION**

Sr. No.	Month	Unit/Topic	Split-Up-Detail	Periods For Class Room Teaching	Periods For Comp.Aided Teaching	Total No. of Periods Teaching
1.	JUNE & JULY	1. Sets	Sets and their representations, Empty Set, Finite & Infinite sets. Equal sets, subsets, subsets of the sets of real numbers especially intervals (with notations). Power set, Universal Set. Venn diagrams. Union and Intersection of sets. Difference of sets. Complement of a set.	10	02	12
		2. Relations & Function	Ordered pairs, Cartesian product of sets. Number of elements in the Cartesian product of two finite sets, Cartesian product of the real with itself (upto $R \times R \times R$). Definition of a relation, Pictorial diagrams, domain, co-domain and range of relation. Function as a special kind of relation from one set to another. Pictorial representation of a function, domain, co-domain and range of relation. Function as a special kind of relation from one set to another. Pictorial representation of a function, domain, co-domain and range of a function. Real valued function of a real variable, domain and range of these functions, constant, identity, polynomial, rational, modulus, signum and greatest integer functions with their graphs. Sum, difference product and quotients of functions.	12	02	14

Sr. No.	Month	Unit/Topic	Split-Up-Detail	Periods For Class Room Teaching	Periods For Comp.Aided Teaching	Total No. of Periods Teaching
		3. Trigonometric Functions	<p>Positive and negative angles. Measuring angles in radians & in degrees and conversion from one measure to another.</p> <p>Definition of trigonometric functions with the help of unit circle.</p> <p>Truth of the identity $\sin^2x + \cos^2x = 1$, for all x. signs of trigonometric functions and sketch of their graphs. Expressions $\sin(x+y)$ and $\cos(x+y)$ in terms of $\sin x$, $\sin y$, $\cos x$ & $\cos y$.</p> <p>Deducing the identities like following :</p> $\tan(x \pm y) = (\tan x \pm \tan y) / (1 \pm \tan x \tan y),$ $\cot(x \pm y) = \cot x \cot y \pm 1 / (\cot x + \cot y),$ $\sin x + \sin y = 2 \sin(x+y) / 2 \cos(x-y) / 2, \quad \cos x + \cos y = 2 \cos(x+y) / 2 \cos(x-y) / 2,$ $\cos y = 2 \cos(x+y) / 2 \cos(x-y) / 2,$ $\sin x - \sin y = 2 \cos(x+y) / 2 \sin(x-y) / 2, \quad \cos x - \cos y = -2 \sin(x+y) / 2 \sin(x-y) / 2$	14	01	15
				36	06	42
2	AUG	1. Trigonometry (continued)	<p>Identities related to $\sin 2x$, $\cos 2x$, $\tan 2x$, $\sin 3x$, $\cos 3x$ and $\tan 3x$.</p> <p>General solution of trigonometric equations of the type $\sin \theta = \sin \alpha$, $\cos \theta = \cos \alpha$ and $\tan \theta = \tan \alpha$. Proofs and simple applications of sin and cosine formulae.</p>	08	01	09
		2. Principal of Mathematics Induction	<p>Process of the proof by induction, motivating the application of the method by looking at natural numbers as the least inductive subset of real numbers. The principle of mathematical induction and simple applications.</p>	06	01	07

Sr. No.	Month	Unit/Topic	Split-Up-Detail	Periods For Class Room Teaching	Periods For Comp.Aided Teaching	Total No. of Periods Teaching
		3.Complex Numbers and Quadratic Equations	Need for complex numbers, especially “-1, to be motivated by inability to solve every quadratic equation. Brief description of algebraic properties of complex numbers. Argand plane and polar represent of complex numbers. Statement of fundamental theorem of Algebra. Solution of quadratic equation in the complex number system.”	(08+08)=16	01+01=2	09+09=18
				30	04	34
3.	SEP.	1. Linear Inequalities	Linear inequalities, Algebraic solutions of linear inequalities in one variable and their representation on the number line. Graphical solution of linear inequalities in two variable. Solution of system of linear inequalities in two variables graphically.	08	02	10
		2. Permutations & Combinations	Fundamental principle of counting. Factorial n. permutations and combinations, derivation of formulac and their connections, simple applicatioans.	10	02	12
		3. Binomial Theorem	History, statements and proof of the binomial theorem for positive integral indices. Pascal’s triangle, general and middle term in binomial expansion.	06	01	07
				24	05	29
4.	OCT.	1. Binomial Theorem (continued)	Simple applications.	08	01	09

Sr. No.	Month	Unit/Topic	Split-Up-Detail	Periods For Class Room Teaching	Periods For Comp.Aided Teaching	Total No. of Periods Teaching
		2. Sequence and Series	Sequence and series. Arithmetic Progression(A.P.). Arithmetic Mean (A.M.) Geometric Progression (GP), general term of a GP, sum of n terms of a GP, geometric Mean (GM), relation between between A.M and GM. sum to n terms of the special series Σn , Σn^2 and Σn^3 .	08	02	10
		3. Straight Lines :	Brief recall of 2 D from earlier classes. Slope of a line and angle between two lines. Various forms of equations of line: parallel to axes, point-slope form, slope- intercept form, two-point form, intercepts form and normal form. General equation of a line distance of a point from a line.	08	01	09
				24	04	28
5.	NOV	1. Conic Section	Sections of a cone : circles, line and pair of hyperbola, a point, a straight line and pair of intersecting lines a degenerated case of a conic section. Standard equations and simple properties of parabola, ellipse and hyperbola. Standard equation of a circle, Revision for Half Yearly Exam.			
				15	05	20
6.	DEC.	1.Introduction to three Dimensional Geometry	Co-ordinate axes and co-ordinate planes in three dimensions. Co-ordinates of a point. Distance between two points and section formula.	08	01	09

Sr. No.	Month	Unit/Topic	Split-Up-Detail	Periods For Class Room Teaching	Periods For Comp.Aided Teaching	Total No. of Periods Teaching
		2. Limits and Derivatives :	Derivative introduced as rate of change of both as that of distance function and geometrically, intuitive idea of limit. Definition of derivative, relate it to slope of tangent of the curve, derivative of sum, difference, product and quotient of functions.	11	01	12
				19	02	21
7.	JAN.	1. Derivative (continued)	Derivatives of polynomial and trigonometric functions.	07	02	09
		2. Statistics	Measure of dispersion; mean deviation, variance and standard deviation of ungrouped/group data. Analysis of frequency distributions with equal means but different variances.	10	02	12
		3. Probability	Random experiments; outcomes, sample spaces (set representation). Events: occurrence of events, mutually exclusive events Axiomatic (set theoretic) probability, connections with the theories of earlier classes. Probability of an event, probability of 'not', 'and' & 'or' events.	10	02	12
				27	06	33
8.	FEB.	1. Mathematical Reasoning:	Mathematically acceptable statements. Connecting words / phrases consolidating the understanding of "if and only if (necessary and sufficient) condition", "implies", "and/or", "imply by", "and", "or", "there exists" and their use through variety of examples related to real life and Mathematics. Validating the statements involving the connecting words -difference between contradiction, converse and contrapositive.			

Sr. No.	Month	Unit/Topic	Split-Up-Detail	Periods For Class Room Teaching	Periods For Comp.Aided Teaching	Total No. of Periods Teaching
			Revision for Session Ending Examination.			
9.	MAR.	Revision for Session Ending Examination. (Model Question Papers)				

Prepared By :

1.

2.

Splip-up Syllabus for Session 2008-09

Class XI

Biology (Theory)

Month	Name of the Unit	Detailed Split up Chapters according to N.C.E.R.T. Book	Periods for Class Room Teaching	Suggested Computer Aided Teaching Period
June	Diversity in living world (Unit-I)	The living world	06	–
July	Diversity in living world (Cont.) I Unit Test (Chapter 1-4)	(Chapters : 2-4) i.e. Biological classification; Plant kingdom (major groups) angiosperms (upto sub class); salient features of animals (non-chordate upto phylum level and cordates upto class level), Practicals– 1. Study of specimens with reasons- Bacteria, Oscillatoria, Spirogyra, Rhizopus, Mushroom, yeast, liverworts, moss, fern, pinus, monocot&dicot plant, lichen. 2. Study of Amoeba, Hydra, Liverfluke, Ascaris, Leech, Prawn, Earthworm, Silkworm, Honeybee, Snail, Starfish, Shark, Rohu, Frog, Lizard, Pigeon and Rabbit.	25	02
August	Structural organisation in animals and plants (Unit-II)	(Chapters 5-7) i.e. Morphology of flowering plants (Roots, stem, leaf, inflorescence, flower, fruit, seed) Anatomy of flowering plants, Structural organisation in animals (Tissues; morphology, anatomy and functions of different systems of earthworm, frog and cockroach)	25	03

Month	Name of the Unit	Detailed Split up Chapters according to N.C.E.R.T. Book	Periods for Class Room Teaching	Suggested Computer Aided Teaching Period
		<p>Practicals–</p> <ol style="list-style-type: none"> 1. Preparation and study of T.S. of dicot and monocot (roots and stems). 2. Study of temporary/permanent slides of palisade cells, guard cells, parenchyma, collenchyma, sclerenchyma, Xylem, Phloem. 3. Study of Squamous epithelium, muscle fibres, blood smear. 4. Study of modification in root, stem and leavers. 5. Study of external morphology of earthworm, cockroach and frog. 		
Sept.	Cell : Structure and Function (Unit-III) Plant Physiology (Unit-IV) II Unit Test (Chapter 5-9)	<p>Chapter (8-11)</p> <p>Cell: Cell wall , cell membrane and cell organelles (plastids, mitochondria, endoplasmic reticulum, golgi body, ribosome, lysosome, centrioles) and nuclear organisation; Biomolecules; cell cycle & cell division, Transport in plants.</p> <p>Practicals–</p> <p>Osmosis by potato osmometer; Plasmolysis in Rhoeo leave; Distribution of stomata in upper and lowr surface; Rate of transpiration.</p>	22	03
Oct.	Plant Physiology (Unit-IV)	<p>(Chapter 11 contd., 12, 13)</p> <p>Transport in plants (contd); Mineral nutrition; photosynthesis in higher plants.</p>	13	

Month	Name of the Unit	Detailed Split up Chapters according to N.C.E.R.T. Book	Periods for Class Room Teaching	Suggested Computer Aided Teaching Period
		<p>Practicals – Effect of different temperatures on the activity of salivary amylase on starch; Separation of plant pigments by paper chromatography.</p>		
November	Plant Physiology (contd) (Unit-IV) H/Y Exam. (Chapter 1-14)	<p>(Chapters 14-15) Respiration in plants, Revision for H/Y, Plant growth and development</p> <p>Practicals – To test the presence of Sugar, Starch, Protein and Fats in a given sample; to study the rate of respiration; to test the presence of urea, sugar, albumin and bile salts in urine.</p>	2-	02
December	Human Physiology (Unit-V)	<p>(Chapters 16, 17, 18) Digestion and Absorption; Breathing and exchange of gases, Body fluids & circulation.</p> <p>Practicals– Study of imbibition in seeds/ raisins; Observation and comments on the experimental set up on; Anaerobic respiration, Phototropism, Opical bud removal and suction due to transpiration.</p>	18	02
January	Human Physiology (Cont.)	<p>(Chapter 18-21) Excretory products and their elimination; Locomotion and movement; Neural control and co-ordination.</p>	22	03

Month	Name of the Unit	Detailed Split up Chapters according to N.C.E.R.T. Book	Periods for Class Room Teaching	Suggested Computer Aided Teaching Period
	(Unit-V) III Unit Test (Chapter 15-19)	Practicals - Study and describe three common flowering plants (Solanaceae, Fabaceae and Liliaceae); Study of mitosis from permanent slides; Human skeleton and joints.		
February	Human Physiology (Cont.) (Unit-V)	(Chapter 21 (contd.), 22) Neural control (contd.); Chemical Co-ordination; Revision. Practicals-Revision	22	01

Split Up Syllabus for the Session 2008-09

Class-XI

Informatics Practices

Summer Schools

Month	Name of the Topic	Detailed Split Up Syllabus	Periods for Class Room Teaching	Suggested Computer Aided Teaching	Total Periods
June & July	Unit 1 : Computer System and Business Applications	<p>Evolution of computers; Basics of computer and its operation: Functional Components and their inter-connections, Concept of Booting; Hardware concepts: Diagram illustrating main parts of computers; Central Processing Unit(CPU): Arithmetic Logic Unit (ALU), Control Unit, Memory Unit(RAM-Random Access Memory & ROM- Read Only Memory)</p> <p>Role of Input, Processing and Output Devices in a computer system Input devices: Keyboard, Mouse, Light pen, Touch Screens, Graphics Tablets, Joystick, Mic ,MICR, OCR, Scanner, Smart Card Reader, Barcode reader, Biometric sensor, web camera, digital camera; Output Devices: Monitor/Visual Display Unit(VDU),Printer (Dot Matrix Printer, Desk Jet/Ink Jet/ Bubble Jet Printer, Laser Printer), Plotter, Speaker, LCD(Liquid Crystal Display)</p> <p>Secondary Storage Devices: Floppy Disk, Hard Disk, Magnetic Tape, Digital Video Disk (DVD), Binary Digit, Byte, Kilobyte, Megabyte, Gigabyte Software</p>	25	20	45

Month	Name of the Topic	Detailed Split Up Syllabus	Periods for Class Room Teaching	Suggested Computer Aided Teaching	Total Periods
		<p>Concepts. Optical Disk. Types of Software: System Software, utility Software and Application Software.</p> <p>System software: Operating system, Language Processors, compilers, Interpreters and Assembler;</p> <p>Operating System : Need of operating sustem, Functions of operating system.</p> <p>Utility Software: Comression tools, Anti Virus, File Management tools, and Disk Management tools.</p> <p>Application Software as a tool: Word Processor, Presentation Tool, spreadsheet, Package, Database Management System; Business Software (for example : Inventory Management System, Payroll System, Financial Accounting, Hotel Management, and Reservation System); -Development of programming languages-Machine Language, Assembly Language, High Level Language (BASIC, COBOL, FORTRAN, PASCAL, C++); GUIbased languages-Visual Basic, Visul C++, C#, Java, vb.net</p> <p>GUI Operating System</p> <p>Important : Students/Teachers can also perform similar operation on any operating system. It is advised that the teacher while using any one operating system, give a demonstration of equivalent features for the other operating systems.</p>			

Month	Name of the Topic	Detailed Split Up Syllabus	Periods for Class Room Teaching	Suggested Computer Aided Teaching	Total Periods
August	Unit 1 : Computer System & Business Applications	<p>Windows General features, Elements of Desktop- Taskbar, Icon, Start button, Shortcuts, Folder Recycle Bin, My Computer; Start Menu : Program, Documents, Start Menu : Program, Documents, Setting, Find/Search, Help, Run, Shut Down/Logoff; Customization of Taskbar, Start Menu, Display properties (Wallpaper, Font, Settings, Color, Settings, Screen Savers); Program Menu : Accessories - Calculator, Notepad, Paint, WordPad, Media Player, Volume Controller); Internet Browsers Mozilla Firefox, Internet Explorer, Netscape Navigator Control Panel : Add new hardware, Add new Sound Recorder, Media Player, Volume Controller) ; Internet Browsers Mozilla Firefox, Internet Explorer, Netscape Navigator, Control Panel: Add new hardware, Add new Software, Printer Inatallation, Date/ Time, Mouse, and Regional Settings.</p> <p>Documentation Purpose of using word processing software, opening a new/exosting document, closing a document, typing in a document, saving a document, print preview, printing a document, copying selected text, cutting selecting text. Inseriting symbol; Formatting: Alignment - Left, Right, Center; Justification; Industries and</p>	17	18	35

Month	Name of the Topic	Detailed Split Up Syllabus	Periods for Class Room Teaching	Suggested Computer Aided Teaching	Total Periods
	Unit 2 : Introduction to Programming	<p>Business Computing: Types of Industries (Production, Shipping, Travel ,Hotel Insurance, Construction, Automobile), Applications of Business Computing in Industries.</p> <p>UNIT 2 : INTRODUCTION TO PROGRAMMING Programming Methodology : General Concepts; Clarity and Simplicity of Expression, Names, Clarity and Simplicity of Expressions, Names, Comments, Indentation; Documentation and Program Maintenance; Errors, Running and Debugging programs, Syntax Run-Time Errors, Logical Errors.Guidelines to Minimize Operational Errors.</p> <p>Detailed Split Up Syllabus Problem Solving Methodlogy and Techniques. Understanding of the problem, Identifying minimum nnumber of inputs required for output, Step by step solotion for the problem, breaking down solution into simple steps, Identification of arithmetic and logical operations required for solution, Using Control Structure: Conductional control and looping (finite and infinite);</p>	5	2	7
Sept.	Unit 2 : Introduction on to Programming continue	<p>Programming Tool: Visual Basic Introduction to Programming-Modular Programming, Object Oriented Programming, Event Driven Programming; About Visual Basic (Object Based</p>	12	15	27

Month	Name of the Topic	Detailed Split Up Syllabus	Periods for Class Room Teaching	Suggested Computer Aided Teaching	Total Periods
Oct. July	Unit 2 Continue	<p>Programming Language), Rapid Application Development using Visual Basic; Concept of Project in Visual Basic, VB Project Options - Standard EXE, Active X DLL, Active X EXE, Active X Control, Active X Document DIL, Active X Document EXE, Addin, VB Application Wizard, IIS Application, DIITMLApplication; Getting Familiar with Visual Basic User Interface- Pull Downmenus, Toolbox, Project Explorer, Properties Window, Form Layout window, Form, Immediate window, Form, Immediate window; Opening and Closing windows, Resizing and moving windows, Docking windows; Quitting. Visual Basic Tool Box (Standard Window Controls)- Pointer, Picture Box, Label, Text Box, Frame, Command Button, Check Box, Option Button, Combo Box, List Box, Horizontal Scrollbar, Vertical, Scrollbar, Timber, Drive List Box, Directory List Box, File List Box, Shape, Line, Image, Date, OLE; Object Naming Connections, Event Procedures;</p> <p>Programming Fundamentals Data Types: Integer, Long, Single, Double, Currency, String, Byte, Boolean, Date, Object Variant; Variables: Needs to use variable, Declaring Variables, Variable Naming Convention, Assigning value to Variables, Data</p>	18	14	32

Month	Name of the Topic	Detailed Split Up Syllabus	Periods for Class Room Teaching	Suggested Computer Aided Teaching	Total Periods
		<p>Types of variable, Scope and lifetime of Variable (Public and Private);</p> <p>Control Structures:</p> <p>Decision Structure - IF, IF- THEN-ELSE, Select Case:</p> <p>Looping Structure - Do While.....Loop, Do.....Loop While, For.....Next, For Each.....Next;</p> <p>Menu Editor: Concept of Menus, Shortcut menu and Popup menus Designing Menu, System, Menu Editor Dialog Box Options (Name, Index, Shortcut, Help Context ID, Negotiate Position, Checked, Enabled, Visible, Window List, Right Arrow, Left Arrow, Up Arrow, Down Arrow, Menu List, Next, Insert Delete OK, Cancel), To Create Menu Controls in the Menu Editor, Menu Naming Conventions. Setting the Name Property, Creating a Menu Controls Array. Creating Sub Menus, Separating Menu Controls. Assigning, Access, Keys and Short Cut Keys,Controlling Menus Control, Making a Menu Control Invisible, Adding Menu Control at Runtime, Displaying Pop-Up Menu;</p> <p>General Controls (Advance): Image, List, Common Dialog Box, ADO DC, DB Combo, Media Player Control, DB Girid;</p>			

Month	Name of the Topic	Detailed Split Up Syllabus	Periods for Class Room Teaching	Suggested Computer Aided Teaching	Total Periods
November		<p>Adding a Toolbar : Creating an Image List, Adding Images to the Toolbar, To Add Code for the Toolbar Buttons; Adding Status Bar : Adding Time on the panel. Dialog Boxes: Pre-defined dialog box, Custom dialog box;</p> <p>Database Management System</p> <p>Introduction to database concepts: relation/ Table, attribute, Tuple/ Rows, field Data, Concept of String, Number and Date Values, Dats type and Data Integrity (Domain and Referential integrity). Candidate key, Alternaties key, Primary key, Foreign keys, Data Nomalization first, second, third, BCNF normal form ; Examples of Commercially a vailable Database Management System's (Back- End) - Oracle, MS-SQL Server, DB2, MySQL, Sybase, INGRES. Examples of Front end End Software's Oracle Developer, Visual Basic, Visual C++, Power Builder, Delphi.</p> <p>RDBMS TOOL:</p> <p>Interface with Oracle, Login Screen, Entering Name and Password; Classifiication of SQL Statement : DML (SELECT, INSERT, UPDATE, DELETED) DDL (CREATE, DROP, ALTER, RENAME, TRUNCATE), DCL (CRANT, REVOKE), TCL (COMMIT, ROLLBSCK); SQL SELECT Selecting All the Columns, Selecting Specific Column, Column Heading Default, Using</p>	12	10	22
November					

Month	Name of the Topic	Detailed Split Up Syllabus	Periods for Class Room Teaching	Suggested Computer Aided Teaching	Total Periods
December	Unit 3 Continue	<p>Arithmetic Expressions, Defining and using Column Alias, Concatenation Operator (11), Duplicate rows and their Elimination (DISTINCT keyword), Role of SQL and SQL* Plus in interacting with RDBMS, Displaying Table Structure (DESC command).</p> <p>SELECT Statement Continued : Limiting Rows selecting (using WHERE clause), Working with Character Strings and Dates, Using Comparison operators, BETWEEN operator, IN Operator, LIKE Operator, IS NULL, Comparison, Logical Operators, Use of Logical Operator Precedence, ORDER BY Clause, Sorting in Ascending/ Descending Order, Sorting By Column Alias Name, Sorting On Multiple Columns;</p> <p>Functions : SQL Functions, Character Functions (Case Conversion/Descending Order, Sorting By Column Alias Name, Sorting On Multiple Columns;</p> <p>Functions : SQL Functions, Types of SQL Function (Single Row/Multiple Row), Single Row SQL Functions, (Character Functions (Case Conversion/Character Manipulation), Case Conversion Functions (lower (), Init Cap (), UPPER())</p> <p>Character Manipulation Function (CONCAT(), INSTR(), LENGTH (), TRIM () SUBSTR (), LPAD (), Number Functions (ROUND(), TRUNC ())) Arithmetic Operation on Dates, Date Functions and their Usage, Data, Type</p>	13	14	27

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January 2009	Unit : 3 Continue	<p>Conversion Functions, Implicit and Explicit Conversion, TO CHAR Function with Dates, TO DATE Function numbers, TO NUMBER and TO DATE Function, NVL Function and its usage, DECODE Function and its Usage.</p> <p>Grouping Records: Concept of Grouping Record and Nested Grouping, Nested Grouping Record for records, Group Functions, Types of group function (MAX (), MIN (), AVG (), SUM (), COUNT ()),</p> <p>Using AVG and SUM Functions. Using M/N and MAX Functions.</p> <p>Using the COUNT Function and using count (*). DISTINCT Clause with COUNT, Group Functions and Null Values, Using NVL Function with Group Functions, Grouping By Clause, Grouping By More than one Column, Illegal Queries with Group By Clause, Excluding Group Results: Having Clause, Nesting Group Functions,</p> <p>Sub Queries: Concept of Sub-Query, Sub Query to Solve a Problem, Guidelines for Using Sub Queries, Types of Sub-Queries (Single Row and Multiple Row) and (Single Column and Multiple Column); Single Row Sub-Query and its Execution;</p> <p>Displaying Data From Multiple Tables: Concept of Join, Result of Join, Cartesian Product and Generating</p>			

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January 2009	Unit : 3 Continue	<p>Cartesian Product example using Mathematical Search Conditions using Mathematical Set Types of Join (EQUI, SELF, NON EQUJ, OUTER (LEFT and RIGHT), Equi-join: Retrieving records with Equi-join, Additional Search Conditions using AND operator, Short Naming Convention for Tables (Table Aliase), Non-Equi join and its Implementation, Outer-Join and its Usage, Self-Join (Joining a table to itself);</p> <p>Manipulating Data of A Table/Relation: Concept of DML (Data Manipulation Language), INSERT Statement, Inserting New Rows, Inserting New Rows with Null Values, Inserting Date Values, Use of Substitution Variable to Insert Values, Copying Row from another Table, Update Statement to Change Existing Data of a Table, Updating Rows in a Table, Updating Rows based on another Table, Delete statement/ Removing Row/ Rows from a Table, Deleting Rows Based on condition from another Table Making Data Manipulation Permanent (COMMIT). Undo Data Manipulation Changes (ROLL BACK)</p> <p>Data base Objects : View, Table Sequence, index and Synonyms, DDL, (Data Definition Language), Naming Convention, Creating Synonyms, Simple Views and Complex Views, Retrieving Data from a View, Querying a View, Modifying a View, Including DROP TABLE & DROP VIEW Command Transaction Control Language (TCL) & Data Control Language (DCL).</p>	17	20	37

Split-up Syllabus For Session 2008-09 (Summer Schools)

Economic - Class : XI

Paper One

Time : 3 Hours

Marks : 100

Units	Topics	Marks	Periods CBSE
Part A	Statistics for Economics		
	1. Introduction	03	05
	2. Collection, organization & Presentation of Data	12	25
	3. Statistical Tools and Interpretation	30	64
	4. Development project in economics	05	10
		50	104
Part B	Indian Economic Development		
	5. Development Oplicies and Experience (1947-90)	10	18
	6. Economic Reforms since 1991	08	14
	7. Current Challenges facing Indian Economy	25	60
	8. Development experience of India-A comparison with neighbours	07	12
		50	104

Sr. No	Month	Unit/Topic	Split-up - Detail	Periods Available	Period for Comp.Aided Teaching	Total No. of Days
1.	June & July	1. Introduction 2. Collection, Organization and Presentation of data	What is Economic? Meaning, scope and importance of statistics in Economics Collection of data-sources of data-primary and secondary; how basic data is collected; methods of collecting data; some important sources of secondary data; census of India and National Sample Survey Organization. Organization of data : meaning and types of variables; Frequency Distribution 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).	45	04	30
2.	Aug.	3. Statistical tools and Interpretation 1. Statistical tools and Interpretation continued 2. Development Policies and Experience (1947-90)	Measures of Central Tendency-mean (simple and weighted), median and mode Measures of Dispersion-absolute dispersion (range, quartile deviation, mean deviation and standard deviation); A brief introduction of the state of Indian economy on the eve of independence	35	04	23
3.	Sept.	1. Statistical tools and Interpretation continued	Relative dispersion (Coefficient of quartile deviation, coefficient of mean deviation, coefficient of variation) Lorenz Curve : Meaning and its application. Correlation-	31	04	21

		2.Development Policies and Experience (1947-90) continued	meaning, scatter diagram;measures of correlation- Karl Pearsons's method (two variables ungrouped data) Spearman's rank correlation. Common goals of five years plans-Main features, problems and policies of agriculture (institutional aspects and new agricultural strategy,etc.), industry (industrial licensing, etc.) and foreign trade			
4.	Oct.	1. Economic reforms since 1991 2. Current challenges facing Indian Economy	Need & main features-liberalization, globalization and privatization; An appraisal of LPG policies 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.	27	04	18
			Autumn Break - 13-10-2007to 22-10-2007 - 10 Days			
5.	Nov.	Statistical tools and Interpretation continued	Employment : growth, information and other issues, Problems and policies. 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.	32	02	22
6.	Dec.	1. Developing Projects in Economics	The students may be encouraged to develop projects ,which have primary data, secondary data or both. Case studies			

		2. Current challenges facing Indian Economy continue	<p>of a few organizations/ outlets may also be encouraged. Some of the examples of the projects are as follows (they are not mandatory but suggestive):</p> <p>(i) A report on demographic structure of your neighbourhood;</p> <p>(ii) Consumer awareness amongst households</p> <p>(iii) Changing prices of a few vegetables in your market</p> <p>(iv) Study of a cooperative institution : milk cooperatives</p> <p>The idea behind introducing this unit is to enable the students to develop the ways and means by which a project can be developed using the skills learned in the course. This includes all the steps involved in designing a project starting from choosing a title, exploring the information relating to the title, collection of primary and secondary data, analyzing the data, presentation of the project and using various statistical tools and their interpretation and conclusion.</p> <p>Infrastructure: Meaning and types: Case Studies; Energy and Health; Problems and Policies-A critical assessment.</p>			
7.	Jan.	<p>1. Current challenges facing Indian Economy continue</p> <p>2. Development Experience of India</p>	<p>Sustainable Economic Development Meaning : effects of Economic Development on Resources and Environment.</p> <p>A comparison with neighbours-India and Pakistan; India and China-Issues : growth, population, sectoral development and other development indicators.</p>			
8.	Feb.	Revision for Session Ending Examination				