

SPLIT UP SYLLABUS FOR CLASS XI ENGLISH CORE, SESSION 2018-19

CLASS: XI

SUBJECT: ENGLISH CORE

MONTH	TOPIC/ CHAPTERS
June	1. Introduction to Class XI English Core (Code 301) Curriculum 2. The Portrait of a Lady 3. A Photograph 3. Determiners
July	1. Reading Comprehension Practice 2. Note-making and Summarizing 3. The Summer of the Beautiful White Horse 4. The Address 5. Notice/Poster/Advertisements 6. We're Not Afraid to Die 7. Tenses
Aug	1. The Laburnum Top 2. Letters based on verbal/visual input (making enquiries, registering complaints, asking for and giving information, placing orders and sending replies). 3. Discovering Tut 4. Modals 5. Ranga's Marriage 6. Albert Einstein at School
Sep	1. Landscape of the Soul 2. Letters to the Editor (giving suggestion/opinion on an issue) 3. Application for a job with a bio-data or resume 4. Letter to the school or college authority regarding admission, school issues, requirements/suitability of courses etc. 5. The voice of the Rain 6. Article/speech/report writing or a narrative 7. Clauses 8. The Ailing Planet
Oct	1. Mother's Day 2. Speaking/listening skill practice 3. Change of Voice 4. Error correction, editing task, reordering sentences, dialogue completion, transformation of sentences.
Nov	1. The Browning Version

	<ul style="list-style-type: none"> 2. Childhood 3. The Ghat of the Only World 4. Note-making and summarizing - Practice 5. Notice writing/Poster-making/Advertisement - practice 6. Editing work - practice
Dec	<ul style="list-style-type: none"> 1. The Adventure 2. Silk Road 3. Error correction, editing task, reordering sentences, dialogue completion, transformation of sentences.
Jan	<ul style="list-style-type: none"> 1. Father to Son 2. Birth 3. The Tale of Melon City 4. Text books revision
Feb	<ul style="list-style-type: none"> 1. Reading Comprehension (Practice) 2. Advertisements (Practice) 3. Letters (Practice) 4. Article/speech/report writing or narrative – practice. 5. Practice-exercises for grammar section 6. Practice for Speaking skill/Listening skill tests. 7. Revision for session Ending Examination
March	Revision Work for Session Ending Examination

SPLIT UP SYLLABUS FOR CLASS XII ENGLISH CORE, SESSION 2018-19**CLASS: XII****SUBJECT: ENGLISH CORE**

MONTH	TOPIC/ CHAPTERS
April	1. Introduction to Class XII English Core (Code 301) Curriculum 2. The Last Lesson 3. My Mother at Sixty-Six
June	1. The Tiger King 2. Lost Spring 3. The Invisible Man (Chap. 1-5) 4. Notice/Poster/Advertisements/Invitation/Replies 5. An Elementary School Classroom.....
July	1. Reading Comprehension Practice 2. Note-making and Summarizing 3. Deep Water 4. The Enemy 5. The Invisible Man (Chap. 6-18)
Aug	1. The Rattrap 2. Should Wizard Hit Mommy 2. Letters based on verbal/visual input (making enquiries, registering complaints, asking for and giving information, placing orders and sending replies). 3. Keeping Quiet 4. Indigo 5. The Invisible Man(Chap. 19-22)
Sep	1. Going Places 2. Letters to the Editor (giving suggestion/opinion on an issue) 3. Application for a job with a bio-data or resume 4. Letter to the school or college authority regarding admission, school issues, requirements/suitability of courses etc. 5. On the Face of It 6. Article/speech/Debate/report writing. 7. The Invisible Man(Chap. 23-Epilogue)
Oct	1. Evans Tries an O-Level 2. A Thing of Beauty

Nov	1. Memories of Childhood 2. Aunt Jennifer's Tigers 4. Revision.
Dec	Revision Work
Jan	Revision Work
Feb	Revision Work

KENDRIYA VIDYALAYA SANGATHAN, ERNAKULAM REGION

SPLITUP SYLLABUS FOR CLASS XI

Hindi Core

TERM 1					Term 2				
माह	अपठित बोध, जन संचार एवं रचनात्मक लेखन	आरोह भाग : 9 {पद्य भाग }	आरोह भाग : 9 {गद्य भाग }	वितान भाग : 9	माह	अपठित बोध, जन संचार एवं रचनात्मक लेखन	आरोह भाग : 9 {पद्य भाग }	आरोह भाग : 9 {गद्य भाग }	वितान भाग : 9
जून एवं जुलाई	अपठित बोध : पद्यांश	9-हम तौ एक एक करि जानां २-संतों देखत जग बौराना . कबीर 9-मेरे तो गिरधर गोपाल, दूसरो न कोई २-पग घुंघरू बांधि मीरां नाची . मीरा	नमक का दारोगा-प्रेमचन्द मियाँ नसीरुद्दीन-कृष्णा सोबती	भारतीय गायिकाओं में बेजोड़ : लता मंगेशकर कुमार गंधर्व	अक्टूबर	कार्यालयी पत्र	घर की याद: भवानी प्रसाद मिश्र	स्पीति में बारिश: कृष्णनाथ	राजस्थान की रजत बूँदें: अनुपम मिश्र
अगस्त	अपठित बोध : गद्यांश	पथिक: रामनरेश त्रिपाठी	अपू के साथ ढाई साल : सत्यजित राय विदाई संभाषण: बाल मुकुंद गुप्त		नवम्बर	प्रिंट माध्यम : समाचार और संपादकीय	चंपा काले काले अच्छर नहीं चीन्हती : त्रिलोचन	रजनी: मन्नू भंडारी	
					दिसम्बर	रिपोर्ट, आलेख	गजल {साये में धूप}: दुष्यन्त कुमार	जामुन का पेड़ : कृ'नचंदर	
सितम्बर	निबंध	वे आँखें : सुमित्रा नंदन पंत	गलता लोहा: 'शेखर जोशी		जनवरी	फीचर	हे भूख ! मत मचल : हे मेरे जूही के फूल जैसे ईश्वर : अक्क महादेवी	भारत माता जवाहर लाल नेहरू	आलो-आँधारि : बेबी हालदार
					फरवरी	पुनरावृत्ति	आओ, मिलकर बचाएँ : निर्मला पुतुल	आत्मा का ताप : सैयद हैदर रजा	

KENDRIYA VIDYALAYA SANGATHAN, ERNAKULAM REGION

SPLITUP SYLLABUS FOR CLASS XII

Sub: Hindi Core

सत्र-1			सत्र-2		
माह	पुस्तक	पाठ्यक्रम	माह	पुस्तक	पाठ्यक्रम
अप्रैल- जून-	आरोह भाग-2 पूरक पुस्तक वितान भाग- 2 रचनात्मक लेखन एवं जन संचार माध्यम: अभिव्यक्ति और माध्यम	गद्य खण्ड- 1 भक्ति- महादेवी चर्मा पद्य खण्ड- 1 आत्म परिचय- हरिवंशराय बच्चन 2 एक गीत-दिन-दिन-जल्दी-जल्दी ढलता है। 1 सिल्वर वैडिंग-मनोहर श्यामजोशी प्रिंट माध्यम	अक्टूबर	आरोह भाग-2 पूरक पुस्तक वितान भाग- 2	गद्य खण्ड-1 शिरीष के फूल - हजारी प्रसाद द्विवेदी पद्य खण्ड-1 कवितावली {उत्तरकांड से} -तुलसीदास 2 लक्ष्मण मूर्च्छा और राम का विलाप - तुलसीदास डायरी के पन्ने- ऐनफैंक
			नवम्बर	आरोह भाग-2	गद्य खण्ड- 1 श्रम विभाजन और जाति प्रथा. 2 मेरी कल्पना का आदर्श समाज- बाबा साहेब भीमराव अंबेडकर पद्य खण्ड- 1 रुबाइयाँ 2 गजल-फिराक गोरखपुरी 1 छोटामेरा खेत 2 बगुलों के पंख
जुलाई	आरोह भाग-2 रचनात्मक एवं जन संचार माध्यम	गद्य खण्ड- 1 बाजार दर्शन-जैनेन्द्रकुमार 2 काले मेघा पानी दे- धर्मवीर भारती पद्य खण्ड- 1 पतंग-आलोक धन्वा 2 कविता के बहाने 3 बात सीधी थी पर-कुँवर नारायण रिपोर्ट लेखन, कार्यालयी पत्र लेखन, संपादकीय अपठित बोध- गद्य, पद्य	दिसम्बर- जनवरी	पुनरावृत्ति एवं प्रथम प्री0 बोर्ड परीक्षा	पुनरावृत्ति एवं प्रथम प्री0 बोर्ड परीक्षा
अगस्त	आरोह भाग-2 पूरक पुस्तक वितान भाग- 2 रचनात्मक लेखन एवं जनसंचार माध्यम	गद्य खण्ड-पहलवान की ढोलक - फणीश्वरनाथ रेणु 2 चार्ली चैप्लिन यानी हम सब-विष्णु खरे पद्य खण्ड- 1 कैमरे में बंद अपाहिज- रघुवीर सहाय 2 सहर्ष स्वीकारा है-गजानन माधव मुक्ति बोध 1 नूझ-आनन्द यादव आलेख लेखन, निबंध लेखन		पुनरावृत्ति	
सितम्बर	आरोह भाग-2 पूरक पुस्तक वितान भाग- 2 रचनात्मक लेखन एवं जन संचार माध्यम	गद्य खण्ड-1 नमक-रजिया सज्जाद जहीर पद्य खण्ड- 1 उषा- शमशेर बहादुर सिंह 2 बादल राग-सूर्यकांत त्रिपाठी 'निराला' 1 अतीत में दबे पाँव-ओम थानवी, फीचर लेखन			

ERNAKULAM REGION SPLIT UP SYLLABUS SESSION: - 2018-19 PHYSICS	
CLASS XI	
MONTH	TOPIC
JUNE	<p>Chapter–1: Physical World</p> <p>Physics-scope and excitement; nature of physical laws; Physics, technology and society.</p> <p>Chapter–2: Units and Measurements</p> <p>Need for measurement: Units of measurement; systems of units; SI units, fundamental and derived units. 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.</p> <p>Chapter–3: Motion in a Straight Line</p> <p>Frame of reference, Motion in a straight line: Position-time graph, speed and velocity. Elementary concepts of differentiation and integration for describing motion, uniform and non-uniform motion, average speed and instantaneous velocity, uniformly accelerated motion, velocity - time and position-time graphs. Relations for uniformly accelerated motion (graphical treatment).</p>
JULY	<p>Chapter–4: Motion in a Plane</p> <p>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 vectors. 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.</p> <p>Chapter–5: Laws of Motion</p> <p>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).</p>

<p>AUGUST</p>	<p>Chapter–6: Work, Engery and Power 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 energies and potential energies); non-conservative forces, motion in a vertical circle; elastic and inelastic collisions in one and two dimensions.</p> <p>Chapter–7: System of Particles and Rotational Motion 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 a uniform rod. Moment of a force, torque, angular momentum, laws of conservation of angular momentum and its applications. Equilibrium of rigid bodies, rigid body rotation and equations of rotational motion, comparison of linear and rotational motions. Moment of inertia, radius of gyration, values of moments of inertia for simple geometrical objects (no derivation). Statement of parallel and perpendicular axes theorems and their applications.</p>
<p>SEPTEMBER</p>	<p>Chapter–8: Gravitation Kepler's laws of planetary motion, universal law of gravitation. Acceleration due to gravity and its variation with altitude and depth. Gravitational potential energy and gravitational potential, escape velocity, orbital velocity of a satellite, Geo-stationary satellites.</p> <p>Chapter–9: Mechanical Properties of Solids Elastic behaviour, Stress-strain relationship, Hooke's law, Young's modulus, bulk modulus, shear modulus of rigidity, Poisson's ratio; elastic energy.</p> <p>Chapter–10: Mechanical Properties of Fluids Pressure due to a fluid column; Pascal's law and its applications (hydraulic lift and hydraulic brakes), effect of gravity on fluid pressure. Viscosity, Stokes' law, terminal velocity, streamline and turbulent flow, critical velocity, Bernoulli's theorem and its applications. Continued...</p>
<p>OCTOBER</p>	<p>Surface energy and surface tension, angle of contact, excess of pressure across a curved surface, application of surface tension ideas to drops, bubbles and capillary rise.</p> <p>REVISION FOR HALF YEARLY EXAMINATION</p>

NOVEMBER	<p>Chapter–11: Thermal Properties of Matter Heat, temperature, thermal expansion; thermal expansion of solids, liquids and gases, anomalous expansion of water; specific heat capacity; C_p, C_v - calorimetry; change of state - latent heat capacity. Heat transfer-conduction, convection and radiation, thermal conductivity, qualitative ideas of Blackbody radiation, Wein's displacement Law, Stefan'slaw, Greenhouse effect</p> <p>Chapter–12: Thermodynamics Thermal equilibrium and definition of temperature (zeroth law of thermodynamics), heat, work and internal energy. First law of thermodynamics, isothermal and adiabatic processes. Second law of thermodynamics: reversible and irreversible processes, Heat engine and refrigerator.</p>
DECEMBER	<p>Chapter–13: Kinetic Theory Equation of state of a perfect gas, work done in compressing a gas. Kinetic theory of gases - assumptions, concept of pressure. Kinetic interpretation of temperature; rms speed of gas molecules; degrees of freedom, law of equi-partition of energy (statement only) and application to specific heat capacities of gases; concept of mean free path, Avogadro's number.</p>
JANUARY	<p>Chapter–14: Oscillations and Wave Periodic motion - time 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, forced and damped oscillations (qualitative ideas only), resonance.</p> <p>Wave motion: Transverse and longitudinal waves, speed of wave motion, displacement relation for a progressive wave, principle of superposition of waves, reflection of waves, standing waves in strings and organ pipes, fundamental mode and harmonics, Beats, Doppler effect.</p>
FEBRUARY	<p>Chapter : 15 Ray Optics: Reflection of light, spherical mirrors, mirror formula, refraction of light, total internal reflection and its applications, optical fibres, refraction at spherical surfaces, lenses, thin lens formula, lensmaker's formula, magnification, power of a lens, combination of thin lenses in contact, refraction and dispersion of light through a prism.</p> <p>Scattering of light - blue colour of sky and reddish appearance of the sun at sunrise and sunset.</p> <p>Optical instruments: Microscopes and astronomical telescopes (reflecting and refracting) and their magnifying powers.</p> <p>REVISION/ REMEDIAL CLASSES/SEE PRACTICALS</p>
MARCH	SESSION ENDING EXAMINATION

**ERNAKULAM REGION
SPLIT UP SYLLABUS
SESSION: - 2018-19**

CLASS XII PHYSICS

Month	Topic
APRIL	<p>Chapter-1: Electric Charges and Fields Electric Charges; Conservation of charge, Coulomb's law-force between two point charges, forces between multiple charges; superposition principle and continuous charge distribution. Electric field, electric field due to a point charge, electric field lines, electric dipole, electric field due to a dipole, torque on a dipole in uniform electric field.</p>
JUNE	<p>Chapter- 1 Electric Charges and Field (Continuation) Electric flux, statement of Gauss's theorem and its applications to find field due to infinitely long straight wire, uniformly charged infinite plane sheet and uniformly charged thin spherical shell (field inside and outside).</p> <p>Chapter-2: Electrostatic Potential and Capacitance Electric potential, potential difference, electric potential due to a point charge, a dipole and system of charges; equipotential surfaces, electrical potential energy of a system of two point charges and of electric dipole in an electrostatic field. Conductors and insulators, free charges and bound charges inside a conductor. Dielectrics and electric polarisation, capacitors and capacitance, combination of capacitors in series and in parallel, capacitance of a parallel plate capacitor with and without dielectric medium between the plates, energy stored in a capacitor.</p> <p>Chapter-3: Current Electricity Electric current, flow of electric charges in a metallic conductor, drift velocity, mobility and their relation with electric current; Ohm's law, electrical resistance, V-I characteristics (linear and non-linear), electrical energy and power, electrical resistivity and conductivity, Carbon resistors, colour code for carbon resistors; series and parallel combinations of resistors; temperature dependence of resistance.</p>

JULY	<p>Chapter–3: Current Electricity (Continuation) Internal resistance of a cell, potential difference and emf of a cell, combination of cells in series and in parallel, Kirchhoff's laws and simple applications, Wheatstone bridge, metre bridge. Potentiometer - principle and its applications to measure potential difference and for comparing EMF of two cells; measurement of internal resistance of a cell.</p>
	<p>Chapter–4: Moving Charges and Magnetism Concept of magnetic field, Oersted's experiment. Biot - Savart law and its application current carrying circular loop. Ampere's law and its applications to infinitely long straight wire. Straight and toroidal solenoids (only qualitative treatment), force on a moving charge in uniform magnetic and electric fields, Cyclotron. Force on a current-carrying conductor in a uniform magnetic field, force between two parallel current-carrying conductors-definition of ampere, torque experienced by a current loop in uniform magnetic field; moving coil galvanometer-its current sensitivity and conversion to ammeter and voltmeter</p>
	<p>Chapter–5: Magnetism and Matter Current loop as a magnetic dipole and its magnetic dipole moment, magnetic dipole moment of a revolving electron, magnetic field intensity due to a magnetic dipole (bar magnet) along its axis and perpendicular to its axis, torque on a magnetic dipole (bar magnet) in a uniform magnetic field; bar magnet as an equivalent solenoid, magnetic field lines; earth's magnetic field and magnetic elements. Para-, dia- and ferro - magnetic substances, with examples. Electromagnets and factors affecting their strengths, permanent magnets.</p>
August	<p>Chapter–6: Electromagnetic Induction Electromagnetic induction; Faraday's laws, induced EMF and current; Lenz's Law, Eddy currents. Self and mutual induction.</p>
	<p>Chapter–7: Alternating Current Alternating currents, peak and RMS value of alternating current/voltage; reactance and impedance; LC oscillations (qualitative treatment only), LCR series circuit, resonance; power in AC circuits, wattless current. AC generator and transformer.</p>
	<p>Chapter–8: Electromagnetic Waves Basic idea of displacement current, Electromagnetic waves, their characteristics, their Transverse nature (qualitative ideas only). Electromagnetic spectrum (radio waves, microwaves, infrared, visible, ultraviolet, X-rays, gamma rays) including elementary facts about their uses.</p>

SEPTEMBER	<p>Chapter–9: Ray Optics and Optical Instruments</p> <p>Ray Optics: Reflection of light, spherical mirrors, mirror formula, refraction of light, total internal reflection and its applications, optical fibres, refraction at spherical surfaces, lenses, thin lens formula, lensmaker's formula, magnification, power of a lens, combination of thin lenses in contact, combination of a lens and a mirror, refraction and dispersion of light through a prism. Scattering of light - blue colour of sky and reddish appearance of the sun at sunrise and sunset. Optical instruments: Microscopes and astronomical telescopes (reflecting and refracting) and their magnifying powers.</p>
	<p>Chapter–10: Wave Optics</p> <p>Wave optics: Wave front and Huygen's principle, reflection and refraction of plane wave at a plane surface using wave fronts. Proof of laws of reflection and refraction using Huygen's principle. Interference, Young's double slit experiment and expression for fringe width, coherent sources and sustained interference of light, diffraction due to a single slit, width of central maximum, resolving power of microscope and astronomical telescope, polarisation, plane polarised light, Brewster's law, uses of plane polarised light and Polaroids.</p>
	<p>Chapter–11: Dual Nature of Radiation and Matter</p> <p>Dual nature of radiation, Photoelectric effect, Hertz and Lenard's observations; Einstein's photoelectric equation-particle nature of light. Matter waves-wave nature of particles, de-Broglie relation, Davisson-Germer experiment (experimental details should be omitted; only conclusion should be explained).</p>
OCTOBER	<p>Chapter–12: Atoms</p> <p>Alpha-particle scattering experiment; Rutherford's model of atom; Bohr model, energy levels, hydrogen spectrum.</p> <p>Chapter–13: Nuclei</p> <p>Composition and size of nucleus, Radioactivity, alpha, beta and gamma particles/rays and their properties; radioactive decay law. Mass-energy relation, mass defect; binding energy per nucleon and its variation with mass number; nuclear fission, nuclear fusion.</p>
	<p>Chapter–14: Semiconductor Electronics: Materials, Devices and Simple Circuits</p> <p>Energy bands in conductors, semiconductors and insulators (qualitative ideas only) Semiconductor diode - I-V characteristics in forward and reverse bias, diode as a rectifier; Special purpose p-n junction diodes: LED, photodiode, solar cell and Zener diode and their characteristics, zener diode as a voltage regulator.</p> <p>Junction transistor, transistor action, characteristics of a transistor and transistor as an amplifier (common emitter configuration), basic idea of analog and digital signals, Logic gates (OR, AND, NOT, NAND and NOR).</p>

NOVEMBER	<p>Chapter–15: Communication Systems</p> <p>Elements of a communication system (block diagram only); bandwidth of signals (speech,TV and digital data); bandwidth of transmission medium. Propagation of electromagnetic waves in the atmosphere, sky and space wave propagation, satellite communication. Need for modulation, amplitude modulation</p> <p>Revision for I Pre board</p>
DECEMBER	FIRST PRE BOARD EXAM AND REVISION/ REMEDIAL CLASSES
JANUARY	SECOND PRE BOARD EXAM AND REVISION/REMEDIAL CLASSES
FEBRUARY	AISSCE PRACTICAL EXAM AND REMEDIAL CLASSES

**KENDRIYA VIDYALAYA SANGATHAN ERNAKULAM REGION
SPLIT UP SYLLABUS FOR CHEMISTRY (043) CLASS XII**

MONTH	UNIT	NAME OF CHAPTER	NO OF PERIODS
APRIL	1	SOLID STATE	10
JUNE	2	HALOALKANES AND HALOARENES	10
	3	SOLUTIONS	10
	4	ELECTRO CHEMISTRY	12
JULY	5	ALCOHOLS ,PHENOLS & ETHERS	10
	6	CHEMICAL KINETICS	10
	7	SURFACE CHEMISTRY	8
AUGUST	8	ALDEHYDE ,KETONES & CARBOXYLIC ACID	10
	9	GENERAL PRINCIPLES AND PROCESS OF ISOLATION OF ELEMENTS	8
	10	POLYMERS	8
SEPTEMBER	11	AMINES	10
	12	P- BLOCK ELEMENTS	12
	13	d & f BLOCK ELEMENTS	12
OCTOBER	14	CO ORDINATION COMPOUNDS	12
	15	BIOMOLECULES	12
NOVEMBER	16	CHEMISTRY IN EVERYDAY LIFE	6

**KENDRIYA VIDYALAYA SANGATHAN ERNAKULAM REGION
SPLIT UP SYLLABUS FOR CHEMISTRY (043) CLASS XI**

MONTH	UNIT	NAME OF CHAPTER	NO OF PERIODS
JUNE	1	SOME BASIC CONCEPTS OF CHEMISTRY	8
	2	STRUCTURE OF ATOM	10
JULY	3	CLASSIFICATION OF ELEMENTS & PERIODICITY IN PROPERTIES	6
	4	CHEMICAL BONDING & MOLECULAR STRUCTURE	14
	4	STATES OF MATTER	6
AUGUST	5	STATES OF MATTER (Continue)	12
	6	THERMODYNAMICS	16
SEPTEMBER	7	EQUILIBRIUM	14
	9	HYDROGEN	8
OCTOBER	8	REDOX REACTIONS	6
	<i>HALF YEARLY EXAMINATION</i>		
NOVEMBER	10	S-BLOCK ELEMENTS	10
	11	p-BLOCK ELEMENTS	18
DECEMBER	12	ORGANIC CHEMISTRY- SOME BASIC PRINCIPLES AND TECHNIQUES	14
JANUARY	13	HYDROCARBONS	12
	14	ENVIRONMENTAL CHEMISTRY	6

SPLIT UP SYLLABUS FOR PRACTICAL CHEMISTRY (043) CLASS XII

MONTH	SI	EXPERIMENTS
JUNE/JULY	1	Volumetric Analysis
	2	Core Experiments
AUGUST / SEPTEMBER	3	Qualitative Analysis
	4	PROJECT

SPLIT UP SYLLABUS FOR PRACTICAL CHEMISTRY (043) CLASS XI

MONTH	SI	EXPERIMENTS
JUNE/JULY	1	Core Experiments
AUGUST	2	Volumetric Analysis
SEPTEMBER/OCTOBER	3	Qualitative Analysis
NOVEMBER	4	PROJECT

**KENDRIYA VIDYALAYA SANGATHAN
ERNAKULAM REGION
Split up syllabus 2018-19**

Computer Science(083)

Class :XI

Unit	Topic	Marks
1	COMPUTER FUNDAMENTALS	10
2	PROGRAMMING METHODOLOGY	12
3	INTRODUCTION TO C++	14
4	PROGRAMMING IN C++	34
	Total	70

Month	Topic
April-June	<p>Unit 1:Computer Fundamentals</p> <p>Classification of computers: Basics of computer and its operation; Functional Components and their interconnections, concept of Booting.</p> <p>Software concepts: Types of Software – System Software, Utility Software and Application Software</p> <p>System Software: Operating System, Compiler, Interpreter and Assembler;</p> <p>Operating System: Need for Operating System, Functions of Operating System (Processor Management, Memory Management, File Management and Device Management), Types of Operating System-Interactive (GUI based), Time Sharing, Real Time and Distributed, Commonly used Operating System: UNIX, LINUX, Windows, Solaris, BOSS (Bharat Operating System Solutions); Mobile OS – Android, Symbian, IOS.</p> <p>Utility Software: Anti-Virus, File Management tools, Compression tools and Disk Management tools (Disk Cleanup, Disk Defragmenter, Backup).</p> <p>Open Source Concepts: Open Source Software, Freeware, Shareware, and Proprietary Software.</p> <p>Application Software: Office Tools – Word Processor, Presentation Tool, Spreadsheet Package, Database Management System; Domain Specific tools – School Management System, Inventory</p>

	<p>Management System, Payroll System, Financial Accounting, Hotel Management, Reservation System and Weather Forecasting System.</p> <p>Number System: Binary, Octal, Decimal, Hexadecimal and conversion between different number systems.</p> <p>Internal Storage encoding of Characters: ASCII, ISCII (Indian Scripts Standard Code for Information Interchange), and UNICODE (for multilingual computing)</p> <p>Microprocessor: Basic concepts, Clock speed (MHz, GHz), 16 bit, 32 bit, 64 bit, 128 bit processors; Types – CISC Processors (Complex Instruction Set Computing), RISC Processors (Reduced Instruction Set Computing), and EPIC (Explicitly Parallel Instruction Computing).</p> <p>Memory Concepts: Units: Byte, Kilo Byte, Mega Byte, Giga Byte, Tera Byte, Peta Byte, Exa Byte, Zetta Byte, Yotta Byte.</p> <p>Primary Memory: Cache, RAM, ROM</p> <p>Secondary Memory: Fixed and Removable storage – Hard Disk Drive, CD/DVD Drive, Pen Drive, Blue Ray Disk.</p> <p>Input Output Ports/ Connections: Serial, Parallel and Universal Serial Bus, PS-2 port, Infrared port, Bluetooth, Fire wire.</p> <p>Unit 2: Programming Methodology</p> <p>General Concepts: Modular Approach, Clarity and Simplicity of Expressions, Use of proper names for Identifiers, Comments, Indentation; Documentation and Program Maintenance; Running and Debugging programs, Syntax Errors, Run-Time Errors, Logical Errors</p>
July	<p>Problem Solving Methodologies: Understanding of the problem, Solution for the problem, Identifying minimum number of inputs required for output, Writing code to optimizing execution time and memory storage, step by step solution for the problem, breaking down solution into simple steps (modular approach), Identification of arithmetic and logical operations required for solution; Control Structure- Conditional control and looping (finite and infinite).</p> <p>Problem Solving: Introduction to Algorithms/Flowcharts.</p>
August	<p>Unit-3: Introduction to C++</p> <p>Getting Started: C++ character set, C++ Tokens (Identifiers, Keywords, Constants, Operators,), Structure of a C++ Program (include files, main function), Header files – iostream.h, iomanip.h, cout, cin; use of I/O operators (<<and>>), Use of endl and setw (), Cascading of I/O operators, compilation , Error Messages; Use of editor, basic commands of editor, compilation, linking and execution.</p> <p>Data Types, Variables and Constants: Concept of Data types; Built-in Data types: char, int , floatand double; Constants: Integer Constants, Character constants (-\n, \t, \b), Floating Point</p>

	<p>Constants,String Constants;Access modifier:const; Variables of built-in datatypes,</p> <p>Declaration/Initialization of variables, Assignment statement, Type modifier: signed, unsigned, long</p> <p>Operator and Expressions: Operators: Arithmetic operators (-,+,*/,%), Assignment operator (=), c++shorthands (+=, -=,*=,/=,%=) Unary operators (-), Increment (++) and Decrement (--) Operators, Relational operator (>,>=,<=,!=), Logical operators (!,&&,), Conditional operator: <condition>?<if—true>:<if false>; Precedence of Operators; Automatic type conversion in expressions, Type casting;</p>
September	<p>UNIT 4 : PROGRAMMING IN C++</p> <p>Flow of control:</p> <p>Conditional statements: if else, Nested if, switch..case..default, Nested switch..case, break statement (to be used in switch..case only); Loops: while, do - while, for and Nested loops</p> <p>Inbuilt Functions: Standard I/O Functions- (stdio.h) -- gets (), puts (), Character Functions (Ctype.h) - isalnum (), isalpha (),isdigit (), islower (),isupper (), tolower (),toupper ()</p> <p>String Function (string.h) - strcpy (), strcat (), strlen (), strcmp (), strcmpi (), strev (),strlen (),strupur (),strlwr ()</p> <p>Mathematical Functions (math.h) : fabs (), pow (), sgrt (), sin (), cos (), abs ()</p> <p>Other Functions(stdlib.h) : randomize (), random ()</p>
October	<p>Introduction to user-defined function and its requirements.</p> <p>Defining a function; function prototype, Invoking/calling a function, passing arguments to function, specifying argument data types, default argument, constant argument, call by value, call by reference, returning values from a function, calling functions with arrays, scope rules of variables: local and global variables.</p> <p>Relating to Parameters and return type concepts in built-in functions.</p>
HALF YEARLY EXAM(TENTATIVE)	
November	<p>Structured Data Type</p> <p>Arrays: Introduction to Array and its advantages.</p> <p>One Dimensional Array: Declaration/initialization of One-dimensional array, Accepting array elements, accessing array elements, manipulation of array elements (sum of elements, product of elements, average of elements, linear search, finding maximum/minimum value)</p> <p>Declaration / Initialization of a String, string manipulations (counting vowels/</p>

	consonants/ digits/ special characters, case conversion, reversing a string, reversing each word of a string)
December	Two-dimensional Array: Declaration/initialization of a two-dimensional array, inputting array elements, accessing array elements, manipulation of Array elements (sum of row element, column elements, diagonal elements, finding maximum / minimum values) User-defined Data Types: Introduction to user defined data types PROJECT WORK
January	Structure: Defining a Structure (Keyword Structure), declaring structure variables, accessing structure elements, passing structure to functions as value and reference, argument/parameter, function returning structure, array of structure, passing an array of structure as an argument/ a parameter to a function. Defining a symbol name using typedef keyword and defining a macro using #define preprocessor directive.
February	Revision
March	SESSION ENDING EXAMINATION

CLASS XI (PRACTICAL) (2018-19)

S.No	Description	Marks
1	Programming in C++	10
2	Project work	10
3	Practical	6
4	Viva Voce	4
	Total	30

Practical Examination

1. Programming in C++ 10

One programming problem in C++ to be developed and tested on Computer during the examination. Marks are allotted on the basis of following:

- Logic : 6 Marks
- Documentation : 2 Marks
- Output presentation : 2 Marks

2. Project Work 06 + 4*

Problems using String, Number, array and structure manipulation

General Guidelines: Initial Requirement, developing an interface for user (it is advised to use text based interface screen), developing logic for playing the game and developing logic for scoring points

- Memory game: A number guessing game with application of 2 dimensional arrays containing randomly generated numbers in pairs hidden inside boxes.
- Hollywood/Hangman: A word guessing game
- Cows 'N Bulls: A word/number Guessing game
- Random Number Guessing Game (High\Low)
- A game to check whether a word does not use any of the forbidden letters
- Cross'N knots game: A regular tic-tac -toe game.

or

Similar projects may be undertaken in other domains. (As mentioned in general guidelines for project, given at the end of the curriculum in a group of 2-4 students)

* Collaboration and Presentation of the project

3. Practical File 5+1*

a Record of the configuration of computer system used by the student in the computer lab (by exploring inside computer system in the first 2 lab classes).

b Must have minimum 20 programs from the topics covered in class XI course.

- (β) Programs on Control structures
- (γ) Programs on String manipulations
- (δ) Programs on array manipulations (1D & 2D)
- (ε) Programs on structures.

*1 mark is for innovating while developing programmes.

4. Viva Voce 04

Viva will be asked from the syllabus covered in class XI and the project developed by the student(s).

*1 mark is for innovating while developing programme.

**KENDRIYA VIDYALAYA SANGATHAN
ERNAKULAM REGION**

**Split up syllabus 2018-19
Computer Science(083)**

Class XII

Unit	Topic	Marks
1	OBJECT OIENED PROGRAMMING IN C++	30
2	DATA STRUCTURE	14
3	DATABASE MANAGEMENT SYSTEM AND SQL	8
4	BOOLEAN ALGEBRA	8
5	COMMUNICATION TECHNOLOGIES	10
	Total	70

Month	Topic
April-June	<p>Unit 1: Object Oriented Programming in C++ Review: C++ covered in class XI, Object Oriented Programming: Concept of Object Oriented Programming– Data hiding, Dataencapsulation, Class and Object, Abstract class and Concrete class, Polymorphism (Implementation of polymorphism using Function overloading as an example in C++); Inheritance, Advantages of Object Oriented Programming over earlier programming methodologies,</p> <p>Implementation of Object Oriented Programming concepts in C++: Definition of a class, Member of a class – Data Members and Member Functions (methods), Using Private and Public visibility modes, default visibility mode (private); Member function definition: inside class definition and outside class definition using scope resolution operator (::); accessing members from object (s), Objects as function arguments–pass by value and</p>

	<p>pass by reference;</p> <p>Constructor and Destructor: Constructor: special characteristics, declaration and definition of a constructor, default constructor, overloaded constructors, copy constructor, constructor with default arguments;</p> <p>Destructor: Special Characteristics, declaration and definition of destructor;</p> <p>Inheritance (Extending Classes): Concept of Inheritances, Base Class, Derived classes, protected visibility mode; Single level inheritance, Multilevel inheritance and Multiple inheritance, Privately derived, publicly derived and Protectedly derived class, accessibility of members from objects and within derived class (es);</p>
July	<p>Data File Handling: Need for a data file, Types of data files—Text file and Binary file;</p> <p>Text File: Basic file operations on text file: Creating/Writing text into file, Reading and Manipulation of text from an already existing text File (accessing sequentially).</p> <p>Binary File: Creation of file, Writing data into file, Searching for required data from file, Appending data to a file, Insertion of data in sorted file, Deletion of data from file, Modification of data in a file;</p> <p>Implementation of above mentioned data file handling in C++; Components of C++ to be used with file handling: Header file: fstream.h; ifstream, ofstream, classes; Opening a text file in—in, out, and app modes;</p> <p>Using cascading operators (>>, <<) for writing text to the file and reading text from the file; open (), get (), read (), put (), write(), getline() and close() functions; Detecting end-of-file (with or without using eof() function), tellg(), tellp(), seekg(), seekp());</p>
August	<p>Pointers:</p> <p>Introduction to Pointer, Declaration and Initialization of Pointer; Dynamic memory allocation/de-allocation operators: new, delete; Pointers and Arrays: Array of Pointers, Pointer to an array (1 dimensional array), Function returning a pointer, Reference variables and use of alias; Function call by reference. Pointer to structure: De-reference/Deference operator: *, ->; self referential structure;</p> <p>Unit 2: Data Structures</p> <p>Introduction to data structure- array, stack queues primitive and non-primitive data structure, linear and non-linear structure, static and dynamic data structure.</p> <p>Arrays:</p> <p>One and two Dimensional arrays: Sequential allocation and address calculation;</p> <p>One dimensional array: Traversal, Searching (Linear, Binary Search), Insertion of an element in an array, deletion of an element from an array, Sorting</p>

	<p>(Insertion, Selection, Bubble)</p> <p>Two-dimensional arrays: Traversal Finding sum/difference of two NxM arrays containing numeric values, Interchanging Row and Column elements in a two dimensional array;</p>
September	<p>Stack (Array and Linked implementation of Stack): Introduction to stack (LIFO: Last in First out Operations) Operations on stack (PUSH and POP) and its Implementation in C++, Converting expressions from INFIX to POSTFIX notation and evaluation of Postfix expression;</p> <p>Queue: (Array and Linked Implementation) Introduction to Queue (FIFO: First in First out operations) Operations on Queue (Insert and Delete and its Implementation in C++, circular queue using array.</p> <p>Unit 3: Database Management System and SQL</p> <p>Data base Concepts: Introduction to data base concepts and its need.</p> <p>Relational data model: Concept of domain, tuple, relation, key, primary key, alternate key,candidate key;</p> <p>Relational algebra: Selection, Projection, Union and Cartesian product;</p> <p>Structured Query Language:</p> <p>General Concepts: Advantages of using SQL, Data Definition Language and Data ManipulationLanguage;</p> <p>Data Types: NUMBER/DECIMAL, CHARACTER/VARCHAR/VARCHAR2, DATE;</p> <p>SQL COMMANDS: CREATE TABLE, DROP TABLE, ALTER TABLE, UPDATESET, INSERT, DELETE;</p>
October	<p>SELECT, DISTINCT, FROM, WHERE, IN, BETWEEN, GROUP BY, HAVING, ORDER BY;</p> <p>SQL functions: SUM (), AVG (), COUNT (), MAX () AND MIN (); Obtaining results (SELECT query)from 2 tables using equi-join, Cartesian product and Union</p> <p>Note: Implementation of the above mentioned commands could be done on any SQL supportedsoftware on one or two tables.</p> <p>Unit 4: Boolean Algebra</p> <p>Role of Logical Operations in Computing.</p> <p>Binary-valued Quantities, Boolean Variable, Boolean Constant and Boolean</p>

	<p>Operators: AND, OR, NOT; Truth Tables; Closure Property, Commutative Law, Associative Law, Identity law, Inverse Law, Principle of Duality, Idempotent Law, Distributive Law, Absorption Law, Involution Law, DeMorgan's Law and their applications;</p> <p>Obtaining Sum of Product (SOP) and Product of Sum (POS) from the Truth Table, Reducing Boolean Expression (SOP and POS) to its minimal form, Use of Karnaugh Map for minimization of Boolean expressions (up to 4 variables);</p> <p>Application of Boolean Logic: Digital electronic circuit design using basic Logic Gates (NOT, AND, OR, NAND, NOR)</p> <p>Use of Boolean operators (NOT, AND, OR) in SQL SELECT statements Use of Boolean operators (AND, OR) in search engine queries.</p>
<p>November</p>	<p>Unit 5: Communication Technologies</p> <p>Evolution of Networking: ARPANET, Internet, Interspace Different ways of sending data across the network with reference to switching techniques (Circuit and Packet switching).</p> <p>Data Communication terminologies: Concept of Channel, Bandwidth (Hz, KHz, MHz) and Data transfer rate (bps, Kbps, Mbps, Gbps, Tbps).</p> <p>Transmission media: Twisted pair cable, coaxial cable, optical fiber, infrared, radio link, microwave link and satellite link.</p> <p>Network devices: Modem, RJ45 connector, Ethernet Card, Router, Switch, Gateway, wifi card.</p> <p>Network Topologies and types: Bus, Star, Tree, PAN, LAN, WAN, MAN.</p> <p>Network Protocol: TCP/IP, File Transfer Protocol (FTP), PPP, SMTP, POP3 Remote Login (Telnet), and Internet Wireless/Mobile Communication protocol such as GSM, CDMA, GPRS, and WLL.</p> <p>Mobile Telecommunication Technologies: 1G, 2G, 3G and 4G; Mobile processors; Electronic mail protocols such as SMTP, POP3 Protocols for Chat and Video Conferencing VOIP Wireless technologies such as Wi-Fi and WiMax</p> <p>Network Security Concepts:</p> <p>Threats and prevention from Viruses, Worms, Trojan horse, Spams</p> <p>Use of Cookies, Protection using Firewall, https;</p> <p>India IT Act, Cyber Law, Cyber Crimes, IPR issues, hacking.</p> <p>Introduction To Web services: WWW, Hyper Text Markup Language (HTML), Extensible Markup Language (XML); Hyper Text Transfer Protocol (HTTP); Domain Names; URL; Website, Web browser, Web Servers; Web Hosting, Web Scripting – Client side (VB Script, Java Script, PHP) and Server</p>

	side (ASP, JSP, PHP), Web 2.0 (for social networking) E-commerce payment transactions using online banking, mobile banking and payment apps and services.
December	Revision & Project Work
January	Revision
February	CBSE Practical Exam
March	CBSE Exam

CLASS–XII: (PRACTICAL) (2018-19)

S.NO	Description	Marks
1	Programming in C++	10
2	SQL Commands	5
3	Project Work	5
4	Practical	6
5	Viva Voice	4
	TOTAL	30

Marks:30

1. One programming problem in C++ to be developed and tested in Computer during the examination. Marks are allotted on the basis of following:

Logic	: 6 Marks
Documentation/Indentation	: 2 Marks
Output presentation	: 2 Marks

Notes: The types of problem to be given will be of application type from the following topics

- Arrays (One dimensional and two dimensional)
- Class(es) and objects
- Stack using arrays and or linked implementation
- Queue using arrays (circular) and or linked implementation
- Binary File operations (Creation, Displaying, Searching and modification)
- Text File operations (Creation, Displaying and modification)

2. SQL Commands **05**

Five Query questions based on a particular Table / Relation to be tested practically on Computer during the examination. The command along with the result must be written in the answer sheet.

3. Project Work **05**

The project has to be developed in C++ language with Object Oriented Technology and also should have use of Data files. (The project is required to be developed in a group of 2-4 students)

- Presentation on the computer
- Project report (Listing, Sample Outputs, Documentations)
- Viva
- * 1 mark is for innovation while writing programme.

4. Practical File **06**

Must have minimum 20 programs from the following topics

- Arrays (One dimensional and two dimensional, sorting, searching, merging, deletion & insertion of elements)
- Class(es) and objects
- Stacks using arrays and linked implementation
- Queue using arrays & linked implementation (circular also).
- File (Binary and Text) operations (Creation, Updation, Query)
- Any computational Based problems
- 15 SQL commands along with the output based on any table/relation:

5. Viva Voce **04**

Viva will be asked from syllabus covered in class XII and the project developed by student.

SPLIT UP SYLLABUS CLASS XI

MATHEMATICS

MONTH	NO OF WORKING DAYS	TOPIC	NO.OF PERIODS
JUNE	21	SETS	20
JULY	24	RELATIONS & FUNCTIONS	16
		TRIGNOMETRY	20
AUGUST	21	P.M.I	08
		COMPLEX & QUADRATIC EQUATIONS	10
		LINEAR INEQUALITIES	10
SEPTEMBER	24	PERMUTATION & COMBINATION	15
		BINOMIAL THEOREM	10
OCTOBER	19	SEQUENCES & SERIES	15
HALF YEARLY EXAM			
NOVEMBER	22	ST.LINES CONTINUES	15
		CONIC SECTION	10
DECEMBER	19	DIMENSIONALGEOMETRY	06
		LIMITS & DERIVATIVES	12
JANUARY	23	DERIVATIVES CONTINUED	08
		STATISTICS	15
		MATHEMATICAL REASONING	07
FEBRUARY	24	PROBABILITY REVISION	15

SPLIT UP SYLLABUS CLASS XII

MATHEMATICS


MONTH	NO OF WORKING DAYS	TOPIC	NO.OF PERIODS
APRIL	11	RELATIONS & FUNCTIONS	10
JUNE	21	INVERSE TRIGNOMETRIC FUNCTIONS	12
JULY	24	MATRICES	13
		DETERMINANTS	20
AUGUST	21	CONTINUITY &DIFFERENTIABLITY	12
		APPLICATION OF DERIVATIVES	18
SEPTEMBER	24	INDEFINITE INTEGRAL	22
		DEFINITE INTEGRALS &APPLICATIONS	8
		DIFFERENTIAL EQUATION	10
OCTOBER	19	VECTOR ALGEBRA	10
		3-D	12
		LINEAR PROGRAMMING	10
NOVEMBER	22	PROBABLITY	10
REVISION			10

SPLIT UP SYLLABUS

CLASS XI

SUBJECT: BIOLOGY

Month	Topic/Chapter
June 2018	The living world Biological Classification Plant Kingdom
July	Animal Kingdom Morphology of flowering plants Anatomy of flowering plant
August	Structural Organisation in Animal Cell- Basic unit of life
September	Biomolecules Cell Cycle and Cell division Transport in plant
October	<u>Half Yearly Exam</u> Mineral Nutrition in Plants
November	Photosynthesis Respiration Plant Growth and Development
December	Digestion and Absorption Breathing and Gas Exchange
January 2019	Body fluids and circulation Excretion products and their elimination
February	Normal control and co-ordination Chemical co-ordination and integration



19.03.18
प्रधान
PRINCIPAL
केन्द्रीय विद्यालय नं: 9
KENDRIYA VIDYALAYA No: 1
कोषिकोड - 603 004
KOZHIKODE - 673 005

SPLIT UP SYLLABUS

CLASS XII

SUBJECT: BIOLOGY

Month	Topic/Chapter
April 2018	Reproduction in Organism
June	Sexual Reproduction in flowering plants Human re-production Reproductive Health
July	Principles of inheritance and variation Molecular basis of Inheritance
August	Evolution Human health and disease Strategies for Enhancement in Food production
September	Microbes in Human Welfare Biotechnology- Principles and Process Bio-technology and its application.
October	<u>Half Yearly Exam.</u> Organism and Population Ecosystem Biodiversity and its conservation
November	Environmental Issues Revision


19.03.18
प्रधान
PRINCIPAL
कन्द्रीय विद्यालय नं: १
KENDRIYA VIDYALAYA No: 1
कोझिकोड - ६७३ ००४
KOZHIKODE - 673 005

SPLIT UP SYLLABUS (2018-19)

Class: XII

Subject: Economics

Month	Topic
April	<i>INTRODUCTION</i> Positive and normative Economics, Micro and Macro Economics Distinction, Central problems of an economy, Production possibility and opportunity cost
May and June	<i>CONSUMER'S EQUILIBRIUM (CARDINAL AND ORDINAL APPROACH) AND DEMAND</i> Market demand, determinants of demand, demand schedule, demand curve and its Slope, movement and shifts in demand curve. Price elasticity of demand – factors affecting elasticity of Demand, measurement of price elasticity – percentage change method
July	<i>PRODUCER'S BEHAVIOUR AND SUPPLY</i> : meaning of production function: short run and long run, TP AP MP returns to a factor, Cost: short run costs, TC TVC, TFC, AC, AVC, AFC, MC – meaning and their relationships Revenue: TR, AR, MR meaning and their relationship Producer's equilibrium meaning and its conditions in terms of MR and MC Supply, market supply, determinants of supply, supply schedule, supply curve and its Slope, movements along and shifts in supply curve, price elasticity of supply – meaning measurement of elasticity of supply, percentage method <i>FORMS OF MARKET AND PRICE DETERMINATION under perfect competition and simple application</i> Perfect competition features, determination of market equilibrium
August	Effects of shifts in demand and supply, other market forms: Monopoly, Monopolistic competition, oligopoly their meaning and features. Simple applications: Price floor and price ceiling PART B <i>National income and related aggregates</i> Some basic concepts: consumption goods, final goods, intermediate goods, stock and Flow, gross investment and depreciation, circular flow of income (two sector model) Methods of calculating National income Value added or product method, Income method, Expenditure method Aggregates related to National Income: GNP, NNP, GDP, NDP at MP and FC Real and Nominal GDP GDP and welfare
Sept.	<i>MONEY AND BANKING</i> : Meaning and supply of money, currency held by the public and net demand deposits held by commercial banks Money creation by commercial banks Central bank and its functions (e.g. of RBI) Bank of issue, Government bank, Banker's bank, control of credit through

	Bank rate, Repo Rate, Reverse Repo Rate, CRR, SLR, OMO and margin requirement <u>HALF-YEARLY PORTION ENDS</u>
October	<u>DETERMINATION OF INCOME, OUTPUT AND EMPLOYMENT</u> AD and its components, MPC/APC, MPS/APS, short run equilibrium output multiplier And its effects
	Meaning of full employment and involuntary unemployment Problems of excess/deficient demand, measures to correct them, change in Government spending, taxes, money supply <u>GOVERNMENT BUDGET AND THE ECONOMY</u> Government Budget: meaning, objectives, components, classification of Receipts and Expenditure(revenue and capital) Measures OF BUDGETARY deficits: Revenue, Fiscal and Primary meaning
2 weeks of November	<u>BALANCE OF PAYMENTS:</u> BOP a/c meaning and components BOP deficit meaning Foreign exchange rate: meaning of fixed, flexible and managed floating Determination of exchange rate in a free market

CLASS XI

ECONOMICS

Month	Topic
June	Introduction, collection, organisation and presentation of data
July	Measures of central tendency, Measures of dispersion: Range and quartiles
August	Mean deviation, Standard deviation and Lorenz curve <u>INTRODUCTION MICRO ECONOMICS</u> Positive and normative Economics, Micro and Macro Economics Distinction, Central problems of an economy, Production possibility and opportunity cost
SEPTEMBER	<u>CONSUMER'S EQUILIBRIUM (CARDINAL AND ORDINAL APPROACH) AND DEMAND</u> Market demand, determinants of demand, demand schedule, demand curve and its Slope, movement and shifts in demand curve. Price elasticity of demand – factors affecting elasticity of Demand, measurement of price elasticity – percentage change method <u>PORTIONS FOR HALF YEARLY ENDS HERE</u>
OCTOBER	<u>PRODUCER'S BEHAVIOUR AND SUPPLY:</u> Meaning of production function: short run and long run, TP AP MP returns to a factor, short run costs, TC TVC, TFC, AC, AVC, AFC, MC – meaning and their relationships Revenue: TR, AR, MR meaning and their relationship

November	<p>Producer's equilibrium meaning and its conditions in terms of MR and MC Supply, market supply, determinants of supply, supply schedule, supply curve and its slope movements along and shifts in supply curve, price elasticity of supply – meaning measurement of elasticity of supply, percentage method <i>Correlation:</i> meaning, degrees, Kinds and methods: Scatter diagram, Karl Pearson's, Rank correlation</p>
December	<p><u>FORMS OF MARKET AND PRICE DETERMINATION under perfect competition and simple application</u> Perfect competition features, determination of market equilibrium Other market forms: Monopoly, Monopolistic competition, oligopoly their Meaning and features.</p>
January	<p>Effects of shifts in demand and supply Simple applications: Price floor and price ceiling Project commencement Index numbers</p>
February (Two weeks)	<p>Completion and Evaluation of project, Viva – voce</p>

CLASS : XI

SUBJECT: BUSINESS STUDIES

SL NO	MONTH	TOPIC	CHAPTER
1	JUNE – JULY	Nature and purpose of business	Ch : 1
		Forms of business organizations -sole proprietorship - partnership	Ch: 2
2	AUGUST	Forms of business organizations (remin..)	Ch: 2
		Public , private and global enterprises	Ch: 3
3	SEPTEMBER	Business services	ch : 4
		Emerging modes of business	Ch: 5
4	OCTOBER	Social responsibility of business and business ethics (HALF YEARLY)	Ch: 6
5	NOVEMBER	Sources of business finance	Ch: 7
6	DECEMBER	Small business	Ch: 8
		Internal trade	Ch : 9
7	JANUARY	Internal trade	Ch: 9
		International business	Ch:10
8	FEBRUARY	Project work and revision	

CLASS : XI I

SUBJECT: BUSINESS STUDIES

SL NO	MONTH	TOPIC	CHAPTER
1	APRIL	Nature and significance of management	Ch : 1
2	JUNE	Principles of management	Ch: 2
		Business environment	Ch: 3
3	JULY	Planning	Ch :4
		Organizing	Ch : 5
4	AUGUST	Staffing	Ch: 6
		Directing	Ch : 7
3	SEPTEMBER	Controlling	Ch: 8
		Financial management	Ch: 9
4	OCTOBER	Financial market	Ch : 10
		Marketing management	Ch : 11
5	NOVEMBER	Consumer protection	Ch: 12

CLASS : XI

SUBJECT: ACCOUNTANCY

SL NO	MONTH	TOPIC	CHAPTER/ UNIT
1	JUNE – JULY	Introduction to accounting	Unit :1
		Theory base of accounting	
		Recording of business transaction	Unit :2
2	AUGUST	Recording of business transaction	Unit :2
3	SEPTEMBER	Bank reconciliation statement Depreciation	Unit :2
4	OCTOBER	Depreciation , provisions and reserves	Unit :2
5	NOVEMBER	Bill of exchange	Unit :2
		Trial balance and rectification of errors	
6	DECEMBER	Financial statement of sole proprietorship	Unit :3
7	JANUARY	Incomplete records	Unit :3
		Computers in accounting	Unit :4
8	FEBRUARY	Revision	

CLASS : XI I

SUBJECT: ACCOUNTANCY

SL NO	MONTH	TOPIC	CHAPTER / UNIT
1	APRIL - JUNE	Financial statement of Not for profit organization	Unit :1
		Accounting for partnership firms fundamentals	Unit :2
3	JULY	Accounting for partnership firms fundamentals – good will , change in profit sharing ratio Admission of a partner	Unit :2
4	AUGUST	Retirement of a partner Death of a partner Desolation of a partnership firm	Unit :2
		Accounting for share capital – issue of shares	Unit :3
3	SEPTEMBER	Accounting for shares (for future and reissue) Accounting for debentures	Unit :3
4	OCTOBER	Analysis of financial statements	Unit :4
5	NOVEMBER	Cash flow statement	Unit :5

**KENDRIYA VIDYALAYA SANGATHAN
ERNAKULAM REGION
Split up syllabus 2018-19**

Informatics Practices(065)

Class :XI

Unit	Topic	Marks
1	Introduction to Computer Systems	10
2	Introduction to Programming	25
3	Relational Database Management System	30
4	IT Applications	5

Month	Topic
April-June	<p>Unit 1: Introduction to Computer Systems</p> <p>Hardware Concepts:</p> <p><i>Computer organization</i> (basic concepts): CPU, Memory (RAM and ROM), I/O devices, communication bus, ports (serial, parallel), device specific ports;</p> <p><i>Input devices:</i> Keyboard, Mouse, Light pen, Touch Screen, Graphics Tablet, Joystick, Microphone, OCR, Scanner, Smart Card reader, Barcode reader, QRCode reader, Biometric sensor, web camera;</p> <p><i>Output Devices:</i> Monitor/Visual Display Unit (VDU), LCD screen, Television, Printer (Dot Matrix printer, Desk jet/ Inkjet/ Bubble jet printer, Laser printer), Plotter, Speaker;</p> <p><i>Secondary Storage Devices:</i> Floppy Disk, Hard Disk, Compact Disk, Magnetic Tape, Digital Versatile Disk (DVD), Flash Drive, Memory cards. Comparative properties of storage media;</p> <p><i>Memory Units:</i> bit, Byte (Kilobyte, Megabyte, Gigabyte, Terabyte, Petabyte) Encoding scheme : ASCII, ISCII & UNICODE</p> <p>E-waste disposal.</p> <p>Security of computer system</p> <p>Sources of attack and possible damages, malware – virus, worms, spyware and cookies as security threat, malware detection using a tool. Computer security, digital certificate, digital signature, firewall, password, file access permissions</p>

	<p>Types of Software:</p> <p>a) System Software:</p> <p>(i) <i>Operating systems</i>: Need for operating system, major functions of Operating System; Examples of OS for mainframe (eg: Linux etc), PC/Server (eg: Windows, Ubuntu etc.), and mobile devices eg: Android, ios and Symbian.</p> <p>(ii) <i>Language Processors</i>: Assembler, Interpreter, and Compiler</p> <p>b) Utility Software: Compression tools, disk defragmenter, anti-virus.</p> <p>c) Application Software:</p> <p>(i) <i>General Purpose Application Software</i>: Word Processor, Presentation Tool, SpreadsheetPackage, Database Management System, Integrated Development Environment (IDE)</p> <p>(ii) <i>Specific Purpose Application Software</i>: Inventory Management System, PurchasingSystem, Human Resource Management System, Payroll System, Financial Accounting, Hotel Management and Reservation System etc.</p>
July	<p>Unit 2: Introduction to Programming</p> <p>Getting started with Programming using IDE</p> <p>Introduction, Rapid Application Development using IDE (Integrated Development Environment) such as Netbeans; Familiarization of IDE using basic Interface components- Label, Text Field, Text Area, Button, Checkbox, Radio Button. (<i>As per appendix A</i>)</p> <p>Developing General Application (<i>As per the guidelines at appendix B</i>) - Getting Familiar with Java Swing User Interface components-Frame, Dialog, OptionPane, Panel, ScrollPane, Label, TextField, PasswordField, TextArea, Button, CheckBox, RadioButton, ComboBox, List</p> <p>Basic component handling methods and properties: setText(), getText(), isSelected(), setSelected()</p>
August	<p>Programming Fundamentals</p> <p>Data Types: Concept of data types; Built-in data types - byte, short, int, long, float, double, char, string, boolean</p> <p>Variables: Need to use variable, declaring variables, variable naming convention, assigning value to variables;</p> <p>Integer object method: parseInt</p> <p>Double object method: parseDouble, parseFloat</p> <p>Control Structures:</p> <p>Decision Structure – if, if-else, switch;</p> <p>Looping Structure- while, do . . while, for;</p>

September	<p>Programming Guidelines:</p> <p>General Concepts; Modular approach; Stylistic Guidelines: Clarity and simplicity of expressions and names; Comments, Indentation; Running and debugging programs, Syntax Errors, Run-Time Errors, Logical Errors;</p> <p>Problem Solving Methodology: Understanding of the problem, Identifying minimum number of inputs required for output, breaking down problem into simple logical steps.</p>
October	<p>Unit 3: Relational Database Management System</p> <p>Database Management System</p> <p>(ANSI SQL 99 standard commands)</p> <p><i>Classification of SQL Commands:</i></p> <p>DML - SELECT, INSERT, UPDATE, DELETE DDL - CREATE, DROP, ALTER</p> <p><i>Creating and using a database:</i> CREATE DATABASE command to create a database, USEcommand to select a database.</p> <p><i>Creating a table:</i> CREATE TABLE command to create a table, DESC command to display a tablestructure, INSERT command for inserting new rows, inserting new rows with NULL values and values of all the studied data types.</p>
HALF YEARLY EXAM(TENTATIVE)	
November	<p>Selection and Projection of a table.</p> <p><i>Displaying table data:</i> SELECT command for selecting all the columns, selecting specificcolumn(s), use of arithmetic operators.</p> <p>Defining and using column alias</p> <p>Eliminating duplicate values from display using DISTINCT keyword Limiting rows during selection (using WHERE clause)</p> <p>Using Comparison operators - =, <, >, <=, >=, <>, BETWEEN, IN, LIKE(% ,_);</p>
December	<p>Logical Operators –AND, OR, NOT and corresponding operator precedence;</p> <p>Working with NULL values.</p> <p>ORDER BY clause: Sorting in Ascending/Descending order, sorting by column alias name, sorting on multiple columns;</p> <p><i>Manipulating Data of a Table/Relation:</i> UPDATE command to change existing data of a table,DELETE command for removing row(s) from a table.</p> <p><i>Restructuring a table:</i> ALTER TABLE for adding new column(s) and deleting column (s) andmodifying column Structure. DROP command to delete a database or a table.</p> <p>Functions in MySQL:</p> <p><i>String Functions:</i> ASCII(), CHAR(), CONCAT(), INSTR(), LCASE(), UCASE(), LEFT(), LOWER(),LENGTH(), LTRIM(), MID(), RIGHT(), RTRIM(), SUBSTR(), TRIM(), UPPER().</p> <p><i>Mathematical Functions:</i> - POWER(), ROUND(), TRUNCATE().</p> <p><i>Date and Time Functions:</i> CURDATE(), DATE(), MONTH(), YEAR(), DAYNAME(), DAYOFMONTH(),DAYOFWEEK(), DAYOFYEAR(), NOW(),</p>

	<p>SYSDATE().</p> <p>PROJECT WORK</p>
January	<p><i>e-Governance</i>: Definition, benefits to citizens, e-Governance websites and their salient features and societal impacts; e-Governance challenges.</p> <p><i>e-Business</i>: Definition, benefits to customers and business, e-Business websites and their salient features and societal impacts; netbanking, mobile banking, e-Business challenges.</p> <p><i>e-Learning</i>: – Definition, benefits to students (learners), teachers (trainers) and school(Institution) management; MOOCs (Massive Open Online Courses) ; e-Learning websites and their salient features and societal impacts; e-Learning Challenges.</p> <p>In each of the above domains, identify at least two real-life problems, list the input(s) required for the expected output(s), and describe the problem solving approach. Conceptualise the design of an ICT based national mission.</p> <p>Impact of ICT on society – social environmental and economic benefits, Infomania.</p>
February	Revision
March	SESSION ENDING EXAMINATION

CLASS XI (PRACTICAL) (2018-19)

S.No	Description	Marks
1	Problem Solving using Java	10
2	SQL Queries	5
3	Practical Records: <input type="checkbox"/> Application of Productivity Tools (WP, Spreadsheets, Presentation) Productivity Tools <input type="checkbox"/> Simple Problems using Java <input type="checkbox"/> SQL Queries	6
4	Project Work :IT Applications	5
5	Viva Voce	4
	Total	30

Evaluation of Practical Examination

1. Problem solving using Java

Student is required to solve programming problems based on all concepts covered in theory throughout the year and maintain a record of these in the practical file. Student will be given a problem to be solved using Java during final practical examination to be conducted at the end of the academic session

2. SQL Queries

Students will be trying out SQL queries in MySQL throughout the year along with course coverage in theory. Student will be asked to write 5 queries based on one table during final practical examination to be conducted at the end of the academic session

3. Practical Record File

A practical record file is required to be created during the entire academic session. It should be duly signed by the concerned teacher on regular basis and is to be produced at the time of Final Practical Examination for evaluation. It should include the following:

At least 2 applications using at least two productivity tools in each.

At least 10 solutions of simple problems using IDE based Java (*refer to Appendices 'A' & 'B'*). At least 20 SQL queries on any database.

At least one IT applications – project work.

4. Viva Voce

Students will be asked oral questions during practical examination to be conducted at the end of the course. The questions will be from the entire course covered in the academic session. Out of 4 marks, 2 marks are allotted to test student's understanding of basic computer hardware and their functions.

Split up syllabus 2018-19
Informatics Practices(065)

Class XII

Unit	Topic	Marks
1	Networking and Open Standards	10
2	Introduction to Programming	25
3	Relational Database Management System	30
4	IT Applications	5

Month	Topic
April-June	<p>Unit 1: Networking and Open Standards</p> <p>Computer Networking:</p> <p><i>Networking:</i> a brief overview, <i>Communication Media:</i> Wired Technologies – Co-Axial, Ethernet Cable, Optical Fiber; Wireless Technologies – Blue Tooth, Infrared, Microwave, Radio Link, Satellite Link; <i>Network Devices:</i> Modem, Hub, Switch, Repeater, Gateway – and their functions <i>Types of network:</i> LAN, MAN, WAN, PAN; <i>Network Topologies:</i> Star, Bus, Tree <i>Network Protocols:</i> HTTP, TCP/IP, PPP, Remote access software such as Team Viewer; <i>Identifying computers and users over a network:</i> Basic concept of domain name, MAC (Media Access Control), and IP Address, domain name resolution <i>Network Security Concepts:</i> Cyber Law, Firewall, Cookies, Hackers and Crackers <i>Network security threats:</i> Denial of service, Intrusion problems, Snooping, Eavesdropping <i>Internet Applications:</i> SMS, Voice Mail, Electronic Mail, Chat, Video Conferencing <i>Wireless/Mobile Communication:</i> GSM, CDMA, WLL, 3G, 4G</p> <p>Open Source Concepts:</p> <p>Open Source Software (OSS), common FOSS/FLOSS examples (GNU/Linux, Firefox, OpenOffice, Java, Netbeans, MySQL). Common open standards (HTML, XML, ODF, TCP/IP, CSS)</p> <p><i>Indian Language Computing:</i> Character encoding, UNICODE, different types of fonts (opentype vs true type, static vs dynamic), Entering Indian Language Text – phonetic and key map based, Inscript. static vs dynamic), Entering Indian Language Text – phonetic and key map based.</p> <p>Unit 2: Programming</p> <p>Review of Class XI;</p> <p>Programming Fundamentals</p> <p>(Swing Control Methods & Properties as per Appendix A, and sample guidelines of GUI Programming as per Appendix B)</p> <p>Basic concept of Class, Object, Inheritance and Polymorphism Commonly used libraries:</p> <ul style="list-style-type: none"> □ String class and methods: toString(), concat(), length(), toLowerCase(), toUpperCase(), trim(), substring() □ Math class methods: pow(), round()

<p>July</p>	<p><i>Web application development:</i> URL, Web server, Communicating with the web server, concept of Client and Server Side</p> <p>HTML based web pages covering basic tags – <HTML>, <TITLE>, <BODY>, <H1><H6>, , <I>, <U>, <CENTER>, <COMMENT>, , ANCHOR <A>, Paragraph <P>, Line Break
, Horizontal Rule <HR>, , <TABLE>, <LIST>, , <FORM></p> <p>Creating and accessing static pages using HTML and introduction to XML</p>
<p>August</p>	<p>Unit 3: Relational Database Management System Review of RDBMS from Class XI Database Fundamentals</p> <p>Concept of Database transaction, Committing and revoking a transaction using COMMIT and</p> <p>ROLLBACK AND SAVEPOINT.</p> <p><i>Grouping Records:</i> GROUP BY, Group functions - MAX(), MIN(), AVG(), SUM(), COUNT(); using COUNT(*), DISTINCT clause with COUNT; Group Functions in case of Null Values.</p>
<p>September</p>	<p>Creating a Table with PRIMARY KEY, Foreign Key, Unique and NOT NULL constraints, Viewing Constraints, Using DESC command to view constraints.</p> <p><i>Displaying Data From Multiple Tables:</i> Cartesian product, Union, Intersection and Equi-Join ALTER TABLE for</p> <ul style="list-style-type: none"> <input type="checkbox"/> Deleting column(s), modifying data type(s) of column(s), <input type="checkbox"/> Adding a constraint, enabling constraint, dropping constraints. DROP Table for deleting a table or a database.
<p>October</p>	<p>Accessing MySQL database using ODBC/JDBC to connect with database.</p> <p>Unit 4: IT Applications</p> <ul style="list-style-type: none"> • Front-end Interface: Introduction; content and features; identifying and using appropriate component (Text Box, Radio Button, CheckBox, List, etc., as learnt in Unit 2 (Programming)) for data entry, validation and display. • Back-end Database: Introduction and its purpose, exploring the requirement of tables and its essential attributes.
<p>November</p>	<ul style="list-style-type: none"> • Front-End and Database Connectivity: Introduction, requirement and benefits. • Demonstration and development of appropriate Front-end interface and Back-end Database for e-Governance, e-Business and e-Learning applications. • Impact of ICT on society: Social and Economic benefits. In each of the above domains, identify at least two real-life problems, list the expected outputs and the input(s) required for the output, and describe the problem solving approach and develop relevant front-end interface and back-end

	database.
December	Revision and Project work
January	Revision
February	CBSE Practical Exam
March	CBSE Exam

CLASS–XII: (PRACTICAL) (2018-19)

S.NO	Description	Marks
1	Problem solving using Java	10
2	SQL queries	5
3	Practical Records Identify Network configuration and OSS used in school Simple problems using IDE Java and Database Connectivity • SQL Queries • IT Applications	6
4	Project Work	5
5	Viva Voice	4
	TOTAL	30

Evaluation of Practical Examination

1. Problem Solving using Java

Student is required to solve programming problems based on all concepts covered in theory throughout the year and maintain a record of these in the practical file.

Student will be given a problem to be solved using Java during final practical examination to be conducted at the end of the academic session.

2. SQL Queries

Students will be practicing SQL queries in MySQL throughout the year alongwith course coverage in theory.

Student will be asked to write four queries based on one table and one query based on two tables during final practical examination to be conducted at the end of the academic session

3. Practical Record File

A practical record file is required to be created during the entire academic session. It should be duly signed by the concerned teacher on regular basis and is to be produced at the time of Final Practical Examination for evaluation. It should include the following:

Network Configuration and open source software used in your school.

At least 12 solutions of simple problems using IDE based Java (refer to Appendices 'A' & 'B') and Solution of at least 2 simple problems incorporating Java Application & Database connectivity

At least 24 SQL queries based on one and/or two tables At least two web pages using HTML

4. Project File

Students in group of 2-3 are required to work collaboratively to develop a project using Programming and Database skills learnt during the course. The project should be an application in any one of the domains - e-Governance, e-Business and e-Learning - with GUI front-end and corresponding database at the back-end.

5. Viva Voce

Students will be asked oral questions during practical examination to be conducted at the end of the course. The questions will be from the entire course covered in the academic session.