CLASS XII

ENGLISH CORE (301)

Subject	Month	Chapters	Activity/Project
ENGLISH CORE (301)	**APRIL**	**Prose** The Last Lesson, Lost Spring **Poetry** My Mother at Sixty-Six **Writing** Letter to the editor	➢ **Linguistic Chauvinism.** ➢ **Importance of Mother Language.** ➢ **Research and Case Study of a Slum.** ➢ **Health Hazards of Child Labour.** ➢ **Condition of Old Age Homes in our Country.** ➢ **Life of Old Aged People.**
	MAY	**Prose** The Third Level, The Tiger King **Poetry** Keeping Quiet **Writing** Notice Formal/Informal Invitation & Replies	➢ **Sense of Insecurity and Escapism in Modern World.** ➢ **Stress, Fear, and Anxiety Faced by the Students.** ➢ **Save Tigers in India.** ➢ **How Far is Man Harming the Earth?** ➢ **Relevance of Meditation And Introspection.**
	JULY	**Prose** Deep Water The Rattrap Journey to the End of The Earth **Poetry** A Thing of Beauty **Writing** Application for a job	➢ **Phobias and Fears of People- Psychological Impact and Measures to Overcome.** ➢ **How to Bring Criminals into Mainstream?** ➢ **Antarctica- A Repository of the World's Geological History.** ➢ **A Thing of Beauty and its Role.** ➢ **Beauty Lies in the Eyes of the Beholder.**
	AUGUST	**Prose** Indigo, The Enemy, On The Face of It **Poetry** A Roadside Stand **Writing** Article Writing Report Writing	➢ **Condition of Farmers in Champaran- Then and Now.** ➢ **Farmer Protection Laws in India.** ➢ **Predicament of War.** ➢ **Humanism Transcends all Man made Prejudices and Barriers.** ➢ **Need of Inclusion of the Disabled in Mainstream Society.** ➢ **Social Inequality.**
	SEPTEMBER	**HALF-YEARLY EXAMINATION**	

	OCTOBER	**<u>Prose</u>** Poets and Pancakes, Memories of Childhood **<u>Prose</u>** The Interview, Going Places	➢ **Racial and Caste Based Discrimination.** ➢ **The Hardships and Atrocities Faced by the Marginalized Sections of Society.**
	NOVEMBER	**<u>Poetry</u>** Aunt Jennifer's Tigers **PRE-BOARD EXAMINATION- I**	➢ **Interview of Dignitaries from the Spheres of Sports/Music/Cinema/Education/Politics/Literature/Science and Technology etc.** ➢ **Unrealistic Dreams and Fantasies Adolescents are Indulged in.** ➢ **Condition of Women in Contemporary Society.**
	DECEMBER	**PRE-BOARD EXAMINATION- II**	
	JANUARY	**REVISION**	

ACCOUNTANCY
(055)

Subject	Month	Chapters	Activity/Project
ACCOUNTANCY (055)	**APRIL**	• Partnership- Fundamentals • Goodwill • Change in the Profit-Sharing Ratio	**PROJECT WORK-** One specific project based on financial statement analysis of a company covering any two aspects from the following: 1. Comparative and common size financial statements 2. Accounting Ratios 3. Segment Reports 4. Cash Flow Statements
	MAY	• Admission of a partner • Retirement of a partner	
	JULY	• Dissolution of a partnership firm • Death of a partner	
	AUGUST	• Accounting for Share Capital • Accounting for Debentures 1. REVISION	
	SEPTEMBER	➢ ***Term-1 Examination Begins***	
	OCTOBER	• Financial statements of a Company • Comparative statements, common size statements • Accounting Ratios ➢ Cash Flow Statement	
	NOVEMBER	• REVISION 1. ***Pre-Board- 1 Begins (Mid November)***	
	DECEMBER	1. ***Pre-Board- 2 Begins***	

BUSINESS STUDIES (054)

Subject	Month	Chapters	Activity/Project
BUSINESS STUDIES (054)	**APRIL**	**Part A Principles and Functions of Management** 1-Nature and Significance of Management	**Students are supposed to select one unit out of four and are required to make only ONE project from the selected unit-** 1-Project One: Elements of Business Environment 2-Project Two: Principles of Management 3-Project Three: Stock Exchange 4-Project Four: Marketing ➢ For Detail information kindly check CBSE Guidelines for project work.
	MAY	2- Principles of Management 3-Business Environment	
	JULY	4- Planning 5-Organizing 6-Staffing	
	AUGUST	7- Directing 8-Controlling	
	SEPTEMBER	**Term-1 Examination Begins**	
	OCTOBER	**Part-B Business Finance and Marketing** 9- Financial Management 10- Financial Markets	
	NOVEMBER	11-Marketing Management 12-Consumer Protection **Pre-Board – 1 Begins**	
	DECEMBER	**Pre-Board -2 Begins**	
	JANUARY	**REVISION**	

ECONOMICS

(030)

SUBJECT	MONTH	CHAPTERS	ACTIVITY/PROJECT/ART INTEGRATED PROJECT
ECONOMICS (030)	April	**Indian Economic Development** 1. Indian Economy on the eve of Independence. **Macro Economics** 1. Introduction and basic concepts of Macroeconomics. National Income and related Aggregates	Assignment on Circular flow of Income in two sector economy.
	May	**Indian Economic Development** 2. Indian Economy (1947 – 1990) **Macro Economics** Methods of calculating National Income	Worksheets on computation of different methods of National Income
	July	**Indian Economic Development** 3.Economic Reforms since 1991 4. Human Capital Formation **Macro Economics** 2. Money Banking	• Students will visit a bank to know functions of Commercial bank with credit creation process. • Project on Evolution of Money from Barter system of Exchange till digitalization by pasting pictures of different Forms of Money.
	August	**Indian Economic Development** 5. Rural Development **Macro Economics** 3. Aggregate demand & its components. 4. Short run equilibrium. 5. Problem of Excess and Deficit Demand.	Exercise of Case Study Based Questions LA,SA, VSA
	September	**HALF YEARLY EXAMINATION**	
	October	**Indian Economic Development** 6. Employment & Unemployment 7. Sustainable Development. **Macro Economics** 6. Government Budget	• Project sheets on current Global Issues Collage on different policies introduced for generating employment. Flowchart of chapter Government Budget
	November	**Indian Economic Development** 8. Development Experience of India, China and Pakistan. **Macro Economics** 7. Foreign Exchange Rate Balance of Payment.	Students will compare India, China and Pakistan with the help of bar diagram and pie diagram.
	Mid November	**PRE-BOARD I**	
	December	**PRE-BOARD II**	
	January	**REVISION**	

HISTORY

(027)

SUBJECT	MONTH	CHAPTERS	ACTIVITY/PROJECT/ART INTEGRATED
HISTORY (027)	**April**	**Theme 1** Bricks, Beads and Bones. **Theme 2** Kings, Farmers and Towns. Map work of the related themes	**ONE PROJECT TO BE DONE THROUGHOUT THE SESSION, AS PERTHE CBSE SCHEME.** **Students can choose any topic related tothe syllabus.** **Apart that class activities also mentioned.Do as per the chapter scheduled.**
	May	**Theme 3** Kinship, Caste and Class **Theme 4** Thinkers Beliefs and Buildings. Map work of the related themes	Introductions about Project Guidelines. Background reading discussions o theme andSelection of the Final Topic, Initiation/Synopsis
	July	**Theme 5** Through the Eyes of Travelers. **Theme 6** Bhakti Sufi Traditions. Map work of the related themes	Research on travelogue. Discussion on theimportance of foreign traveller's work to reconstruct the Indian society. **Narration:** Life stories of Guru Nanak, Kabirand Mirabai. **Group research and skit**- students will divide into group and further they will presenta skit on Guru Nanak, Kabir and Mirabai.
	August	**Theme 7** An Imperial Capital: Vijayanagar **Theme 8** Peasants, Zamindars and the State. Map work of the related themes	Planning and organization: Forming an actionPlan, feasibility, or baseline study, Updating/Modifying the action plan, Data Collection **Debate**: Down fall of the VijayanagaraEmpire. **Research and Presentation**: VillagePanchayat and headman. Importance of Ain-I-Akbari.
	September	***Term-1 Examination Begins***	
	October	**Theme 10** Colonialism and The Country side. **Theme 11** Rebels and the Raj. Map work of the related themes	Content/data analysis and interpretation. Collect the information of **Birsa Munda,** theleader of Santhal rebellion. Flip class room: Involvement of leaders inrevolt. **Discussion:** Reason of failure of first war ofindependence.
	November	**Theme 13** Mahatma Gandhi and the Nationalist Movement **Theme 14**. Framing the constitution. Map work of the related themes	Conclusion, Limitations, suggestions,Bibliography, Annexures and overallpresentation of the project. **Make a flow chart to unfold the stages ofthe non-cooperation movement** **Write an article on the contribution of Mahatma Gandhi in the Indian freedomstruggle.**
	Mid November	***Pre-Board- I Begins***	
	December	***Pre-Board- II Begins***	
	January	**Final Assessment of Project/Viva**	**External/Internal Viva Based on the Project**

POLITICAL SCIENCE (028)

SUBJECT	MONTH	CHAPTERS	ACTIVITY/PROJECT/ART INTEGRATED PROJECT
POLITICAL SCIENCE (028)	**APRIL**	Part – A: Contemporary World Politics 1. End of Bi-Polarity Part – B: Politics in India since Independence 1. Challenges of Nation Building	One project to be done throughout the session as per the CBSE scheme.
	MAY	Part – A: Contemporary Centers of Power Contemporary South Asia Part – B: 2. Era of One-Party Dominance	I. Student can choose any topic from the syllabus. II. Introduction, Statement of purpose, Need and objectives of study.
	JULY	Part A: 4. International Organizations. Part B: 3. Politics of Planned Development 4. India's External Relations Part A: 5. Security in the Contemporary World	I. Questionnaire and data collection
	AUGUST	Part B: 5. Challenges to and Restoration of Congress System. 6. The Crisis of Democratic Order	Significance and relevance of the topic Challenges faced while conducting research
	SETEMBER	REVISION & TERM-I EXAMINATION BEGINS	
	OCTOBER	Part A: 6. Environment and Natural resources Part B: 7. Regional Aspirations	Content analysis and its relevance in the current scenario
	NOVEMBER	Part A: 7. Globalization Part B: 8. Recent Developments in Indian Politics **PRE BOARD EXAM 1 BEGINS**	Conclusions, Limitations, Bibliography Annexures and overall presentation
	DECEMBER	**PRE BOARD EXAM 2 BEGINS**	
	JANUARY	**FINAL ASSESSMENT OF PROJECT EXTERNAL VIVA**	

PHYSICS
(042)

SUBJECT	MONTH	CHAPTERS	ACTIVITY/PROJECT/ART INTEGRATED PROJECT
PHYSICS (042)	**APRIL**	**CHAPTER-1** ELECTRIC CHARGES & FIELDS **CHAPTER-2** ELECTROSTATIC POTENTIAL & CAPACITANCE	Exp.: 1. To determine resistivity of two / three wires by plotting a graph for potential difference versus current. Exp.: 2. To find resistance of a given wire / standard resistor using metre bridge. Exp.: 3. To verify the laws of combination (series) of resistances using a metre bridge. **OR** Exp.: To verify the laws of combination (parallel) of resistances using a metre bridge.
	MAY	**CHAPTER-3** CURRENT ELECTRICITY **CHAPTER-4** MOVING CHARGES & MAGNETISM	Exp.: 4. To determine resistance of a galvanometer by half-deflection method and to find its figure of merit. Exp.: 5. To convert the given galvanometer (of known resistance and figure of merit) into a voltmeter of desired range and to verify the same. **OR** Exp.: To convert the given galvanometer (of known resistance and figure of merit) into an ammeter of desired range and to verify the same. **Suggested Investigatory Projects for Project File (Any One)** 1. To study various factors on which the internal resistance/EMF of a cell depends. 2. To study the variations in current flowing in a circuit containing an LDR because of a variation in (a) the power of the incandescent lamp, used to 'illuminate' the LDR (keeping all the lamps at a fixed distance). (b) the distance of a incandescent lamp (of fixed power) used to 'illuminate' the LDR. 3. To find the refractive indices of (a) water (b) oil (transparent) using a plane mirror, an equiconvex lens (made from a glass of known refractive index) and an adjustable object needle. 4. To investigate the relation between the ratio of (i) output and input voltage and (ii) number of turns in the secondary coil and primary coil of a self-designed transformer. 5. To investigate the dependence of the angle of deviation on the angle of incidence using a hollow prism filled one by one, with different transparent fluids. 6. To estimate the charge induced on each one of the two identical Styrofoam (or pith) balls suspended in a vertical plane by making use of Coulomb's law. 7. To study the factor on which the self-inductance of a coil depends by observing the effect of this coil, when put in series with a resistor/(bulb) in a circuit fed up by an A.C. source of adjustable frequency. 8. To study the earth's magnetic field using a compass needle -bar magnet by plotting magnetic field lines and tangent galvanometer.

	JULY	**CHAPTER-5** MAGNETISM & MATTER **CHAPTER-6** ELECTROMAGNETIC INDUCTION **CHAPTER-7** ALTERNATING CURRENT	**ACTIVITIES** **SECTION-A** 1. To measure the resistance and impedance of an inductor with or without iron core. 2. To measure resistance, voltage (AC/DC), current (AC) and check continuity of a given circuit using multimeter. 3. To assemble a household circuit comprising three bulbs, three (on/off) switches, a fuse and a power source. 4. To assemble the components of a given electrical circuit. 5. To study the variation in potential drop with length of a wire for a steady current. 6. To draw the diagram of a given open circuit comprising at least a battery, resistor/rheostat, key, ammeter and voltmeter. Mark the components that are not connected in proper order and correct the circuit and also the circuit diagram. **SECTION-B** 1. To identify a diode, an LED, a resistor and a capacitor from a mixed collection of such items. 2. Use of multimeter to see the unidirectional flow of current in case of a diode and an LED and check whether a given electronic component (e.g., diode) is in working order. 3. To study effect of intensity of light (by varying distance of the source) on an LDR. 4. To observe refraction and lateral deviation of a beam of light incident obliquely on a glass slab. 5. To observe diffraction of light due to a thin slit. 6. To study the nature and size of the image formed by a (i) convex lens, or (ii) concave mirror, on a screen by using a candle and a screen (for different distances of the candle from the lens/mirror). 7. To obtain a lens combination with the specified focal length by using two lenses from the given set of lenses.
	AUGUST	**CHAPTER-8** E.M.WAVES **CHAPTER-9** RAY OPTICS **CHAPTER-10** WAVE OPTICS	Exp.: 6. To find the focal length of a convex lens by plotting graphs between u and v or between 1/u and 1/v. Exp.: 7. To determine angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation.
	SEPTEMBER	**CHAPTER-11** DUAL NATURE &REVISION FOR HALF YEARLY	
	OCTOBER	**CHAPTER-12**	Exp.: 8. To find the refractive index of a liquid using convex lens and plane mirror. Exp.: 9. To draw the I-V characteristic curve for a p-n junction diode in forward and reverse

		ATOMS **CHAPTER-13** NUCLEI **CHAPTER-14** ELECTRONIC DEVICES & SEMICONDUCTORS	bias.
	NOVEMBER	**CHAPTER-14:** ELECTRONIC DEVICES & SEMICONDUCTORS **Conti……..** **REVISION FOR PRE-BOARD -1** ***(Mid November)***	
	DECEMBER	**REVISION FOR PRE-BOARD-2**	
	JANUARY	**REVISION FOR THEORY AND PRACTICAL EXAMS FOR CBSE BOARD EXAMINATIONS**	

CHEMISTRY

(043)

SUBJECT	MONTH	CHAPTERS	ACTIVITY/PROJECT/ART INTEGRATED PROJECT
CHEMISTRY (043)	**April**	Solutions Electrochemistry	**PROJECT** ➢ Preparation of soybean milk and its comparison with the natural milk with respect to curd formation, effect of temperature, etc. ➢ Extraction of essential oils present in Saunf (aniseed), Ajwain (carum), Illaichi (cardamom). ➢ Study on different kinds of solutions. **ACTIVITY** ➢ Preparation of one lyophilic and one lyophobic sol ➢ Lyophilic sol - starch, egg albumin and gum ➢ Lyophobic sol - aluminium hydroxide, ferric hydroxide, Arsenic sulphide. ➢ Dialysis of sol-prepared in (a) above. ➢ Study of the role of emulsifying agents in stabilizing the emulsion of different oils. **PROJECT** ➢ To set up a simple voltaic cell and measure its emf. ➢ Investigatory project on Bio- chemical cells **ACTIVITY** Variation of cell potential in Zn/Zn^{2+}|| Cu^{2+}/Cu with change in concentration of electrolytes (CuSO4 or ZnSO4) at room temperature.
	May	Halo Alkanes and Halo Arenes	**PROJECT** Environmental effect of halo-alkanes.
	July	Alcohol, Phenol and Ethers Aldehydes, Ketones and carboxylic acids	**ACTIVITY** ➢ **Tests for the functional groups present in organic compounds:** Unsaturation, alcoholic, phenolic **PROJECT** ➢ Preparation of Acetanilide, Di-benzalacetone. ➢ Distinction between aldehyde and ketones. **ACTIVITY** ➢ **Tests for the functional groups present in organic compounds** aldehydes, ketones, carboxylic acids and amino (Primary) groups. DNP test to be shown in the lab.
	August	Chemical kinetics d and f-block	**PROJECT** ➢ Comparative study of the rate of fermentation of following materials: wheat flour, gram flour, potato juice, carrot juice, etc.

		elements	**ACTIVITY** ➢ Effect of concentration and temperature on the rate of reaction between Sodium Thio sulphate and Hydrochloric acid. ➢ Study of reaction rates of any one of the following: **(i)** Reaction of Iodide ion with Hydrogen Peroxide at room temperature using different concentration of Iodide ions. **(ii)** Reaction between Potassium Iodate, (KIO3) and Sodium Sulphite: (Na2SO3) using starch solution as indicator (clock reaction). ➢ **Preparation of double salts:** Ferrous ammonium sulphate, Potash alum. ➢ **Determination of one anion and one cation in a given salt.** (Note: Insoluble salts excluded)
	September	**REVISION & TERM-I EXAMINATION BEGINS**	
	October	Amines Coordination compounds	**PROJECT** ➢ Worksheet on coordination compound. ➢ Study of the effect of Potassium Bisulphate as food preservative under various conditions (temperature, concentration, time, etc.) **ACTIVITY** ➢ Determination of concentration/ molarity of KMnO4 solution by titrating it against a standard solution of: **i)** Oxalic acid, **ii)** Ferrous Ammonium Sulphate (Students will be required to prepare standard solutions by weighing themselves). **iii)** Preparation of p- Nitroacetanilide, Aniline yellow.
	November	Biomolecules	➢ Characteristic tests of fats and proteins in pure samples and their detection in given foodstuffs. ➢ Study of common food adulterants in fat, oil, butter, sugar, turmeric power, chilli powder and pepper. ➢ Study of quantity of casein present in different samples of milk. ➢ Study of digestion of starch by salivary amylase and effect of pH and temperature on it.
		PRE-BOARD- 1 BEGINS (Mid November)	
	December	**PRE-BOARD- 2 BEGINS**	
	January	**REVISION**	

BIOLOGY

(044)

SUBJECT	MONTH	CHAPTERS	ACTIVITY/PROJECT/ART INTEGRATED PROJECT
BIOLOGY (044)	**APRIL**	Lesson 1: Reproduction in Flowering Plants Lesson 2: Human Reproduction	Prepare a temporary mounted slide of pollen germination (Practical period) and study pollen germination through permanent slide **ACTIVITY** Observation of the permanent slides of T.S. of ovary, T.S. of Testis, T.S. of Blastula (to be done in the practical periods)
	MAY	Lesson 3: Reproductive Health Lesson 4: Principle of inheritance and Variation	**PROJECT** l. Presentation on any new discovery in the field of Biology (Internal Assessment) l. Make a small investigatory project on STDs **ACTIVITY** Mendelian inheritance; Pedigree analysis (to be done in the practical periods). Prepare a temporary mount of onion root tip to study mitosis.
	JULY	Lesson 5: Molecular basis of inheritance Lesson 6: Evolution Lesson 7: Human Health and Diseases	**PROJECT** *Prepared pedigree charts of any one of the genetic traits such as rolling of tongue, blood groups, ear lobes, widow's peak and color blindness **ACTIVITY** *Flash card model showing example of Homologous and Analogous organ
	AUGUST	Lesson 8: Microbes in Human Welfare Lesson 9: Biotechnology: Principle and Processes Lesson 10: Biotechnology and its application	**ACTIVIY** *Different types of diseases through permanent slides, charts and by virtual media *Isolation of DNA from the given plant sample
	SEPTEMBER	**TERM-1 EXAMINATION BEGINS**	
	OCTOBER	Lesson 11: Organisms and Population Lesson 12: Ecosystem	**ACTIVITY** *Population Density and frequency of a given population, Adaptation *Models' specimen showing symbolic association in root modules of leguminous plants, Cuscuta on host, lichens
	NOVEMBER	Lesson 13: Biodiversity and its Conservation	**ACTIVITY** *Study of different soil samples, water holding capacity and pH of different soils **PROJECT** Prepare a ppt on living organism present in different type of water bodies.
		PRE-BOARD- 1 BEGINS (Mid November)	
	DECEMBER	***PRE-BOARD- 2 BEGINS***	
	JANUARY	**REVISION**	

MATHEMATICS

(041)

SUBJECT	MONTH	CHAPTERS	ACTIVITY/PROJECT/ART INTEGRATED PROJECT
MATHEMATICS (041)	APRIL	→Relations & Functions. →Inverse Trigonometric Functions. →Matrices.	1-To verify that relation is symmetric but neither reflexive nor transitive. 2- To verify that relation is an equivalence relation. 3-To demonstrate function which is not one-one but onto. 4-To demonstrate function which is one-one but not onto.
	MAY	→Determinants →Continuity	5-To verify that for a function f to be continuous at given point x_0, $\Delta y=\|f(x_0+\Delta x)-f(x_0)\|$ is arbitrary small provided that Δx is sufficient small.
	JULY	→Differentiability →Application of Derivatives.	6- Concept of Increasing and Decreasing function. 7-Concept of local maxima, local minima and point of inflection. 8- Rate of change of quantities
	AUGUST	→Integration →Application of Integration.	
	SEPTEMBER	**TERM-I EXAMINATION BEGINS**	
	OCTOBER	→Differential Equations →Vectors	9- To verify that angle in a semicircle is a right angle using vector method.
	NOVEMBER	→Three Dimensional Geometry. →Linear Programming →Probability **PRE-BOARD I BEGINS**	10- To explain the computation of conditional probability of a given event A, When event B has already occurred through an example of throwing a pair of Dice.
	DECEMBER	**PRE-BOARD II BEGINS**	
	JANUARY	**REVISION**	

YOGA

(841)

SUBJECT	MONTH	CHAPTERS	ACTIVITY/PROJECT/ART INTEGRATED PROJECT
YOGA (841)	**APRIL**	**UNIT – 1 Introduction to Yoga and Yogic Practices – II** **Unit 1: Communication Skills-IV**	**Repition of Asana of class XI Practice of Tadasana Practice of ArdhaChakrasana Practice of Katichakrasana Practice of Dandasana**
	MAY	**Unit 2: Self-Management Skills-IV Unit 3: ICT Skills-IV**	**Practice of Bhadrasana Practice of Padamasana Practice of Vajrasana Practice of Utanmandukasana Practice of kakasana**
	JULY	**Unit 2 – Introduction to Yoga Texts - II**	**Practice of Parvatasana Practice of Makrasana Practice of Uttanpadasana Practice of Setubandhasana Practice of Vipritkarniasana**
	AUGUST	**Unit 3 – Yoga for Health Promotion - II**	**Practice of Saral matsyasana Practice of Shavasana Repition of Pranayam of class XI**
	SEPTEMBER	**HALF YEARLY**	
	OCTOBER	**Unit 4: Entrepreneurial Skills-IV Unit 5: Green Skills-IV**	**Practice of Jalandhar and Uddayan Bandh Repition of Mudras of class XI Practice of breath Meditation and OM Dhyan**
	NOVEMBER	**PRE-BOARD 1 *(Mid November)***	
	DECEMBER	**PRE-BOARD 2**	
	JANUARY	**REVISION**	

PHYSICAL EDUCATION (048)

SUBJECT	MONTH	CHAPTERS	ACTIVITY/PROJECT/ART INTEGRATED PROJECT
PHYSICAL EDUCATION (048)	**APRIL**	Unit:1 –Management of sporting events. Unit:2- children and women in sports	Students will be divided in various groups and will be given a task to organize a sports day by making various committees Students will come on board and Draw fixtures of knockout and league Students will give a demo of various postural Deformities.
	MAY	Unit:3- Yoga as preventive measure for lifestyle diseases Unit:4- Physical Education and Sports for CWSN	Students will perform various asanas . They will tell how these asana helps in common lifestyle diseases
	JULY	Unit:5- Sports and Nutrition Unit:6- Test and measurement in sports	Students will imitate children who are physically disabled like they will close eyes , close ears and tie there hands or legs to feel the pain of physically disabled children. Students will make a chart of various Nutritions. Their sources and effects on body
	AUGUST	Unit:7- Physiology and injuries in sports Unit:8- Biomechanics and sports	Students will perform SAI khelo India fitness test . Students cardiovascular fitness will be checked by Harvard step Test Students will do practice of how to giver RICER Treatment for soft tissue injuries and fracture
	SEPTEMBER	**TERM-I EXAM BEGINS**	
	OCTOBER	Unit:9- Psychology and sports Unit:10- Training in sports	Students will perform Static Equilibrium and dynamic Equilibrium. Students will perform activities effected by low and high friction Students will come in front and will give a speech on any topic ,so that they can understand importance of personality
	NOVEMBER	**PRE BOARD -I BEGINS**	Students will perform Active and passive flexibility activities to understand it better Students will do Circuit Training
	DECEMBER	**PRE BOARD -II BEGINS**	
	JANUARY	**REVISION**	

COMPUTER SCIENCE (083)

SUBJECT	MONTH	CHAPTERS	ACTIVITY/PROJECT/ART INTEGRATED PROJECT
COMPUTER SCIENE (083)	**April**	Unit I: Computational Thinking and Programming 1.Python Revision Tour I & II	Revision of Python topics covered in Class XI.
	May	Working with functions	➢ Functions: types of function (built-in functions, functions defined in module, user defined functions), creating user defined function, arguments and parameters, default parameters, positional parameters, function returning value(s), flow of execution, scope of a variable (global scope, local scope) Exception Handling: Introduction, handling exceptions using try-except-finally blocks
	July	Using Python Libraries & File handling	➢ Introduction to files, types of files (Text file, Binary file, CSV file), relative and absolute paths ➢ Text file: opening a text file, text file open modes (r, r+, w, w+, a, a+), closing a text file, opening a file using with clause, writing/appending data to a text file using write() and writelines(), reading from a text file using read(), readline() and readlines(), seek and tell methods, manipulation of data in a text file ➢ Binary file: basic operations on a binary file: open using file open modes (rb, rb+, wb, wb+, ab, ab+), close a binary file, import pickle module, dump() and load() method, read, write/create, search, append and update operations in a binary file CSV file: import csv module, open / close csv file, write into a csv file using writer(),writerow(), writerows() and read from a csv file using reader()
	August	Data Structure Unit II: Computer Networks Communication and Network	➢ Data Structure: Stack, operations on stack (push & pop), implementation of stack using list.**)** Programs based on stack operations / implementation of stacks using list ➢ Evolution of networking: introduction to computer networks, evolution of networking (ARPANET, NSFNET, INTERNET) ➢ Data communication terminologies: concept of communication, components of data communication (sender, receiver, message, communication media, protocols), measuring capacity of communication media (bandwidth, data transfer rate), IP address, switching techniques (Circuit switching, Packet switching) ➢ Transmission media: Wired communication media (Twisted pair cable, Co-

			axial cable, Fiber-optic cable), Wireless media (Radio waves, Micro waves, Infrared waves) ➢ Network devices (Modem, Ethernet card, RJ45, Repeater, Hub, Switch, Router, Gateway, WIFI card) ➢ Network topologies and Network types: types of networks (PAN, LAN, MAN, WAN), networking topologies (Bus, Star, Tree) ➢ Network protocol: HTTP, FTP, PPP, SMTP, TCP/IP, POP3, HTTPS, TELNET, VoIP Introduction to web services: WWW, Hyper Text Markup Language (HTML), Extensible Markup Language (XML), domain names, URL, website, web browser, web servers, web hosting
	September	***HALF-YEARLY EXAMINATION***	
	October	Unit III: Database Management & Interface Python with MySQL	➢ Database concepts: introduction to database concepts and its need ➢ Relational data model: relation, attribute, tuple, domain, degree, cardinality, keys (candidate key, primary key, alternate key, foreign key) ➢ Structured Query Language: introduction, Data Definition Language and Data Manipulation Language, data type (char(n), varchar(n), int, float, date), constraints (not null, unique, primary key), create database, use database, show databases, drop database, show tables, create table, describe table, alter table (add and remove an attribute, add and remove primary key), drop table, insert, delete, select, operators (mathematical, relational and logical), aliasing, distinct clause, where clause, in, between, order by, meaning of null, is null, is not null, like, update command, delete command, aggregate functions (max, min, avg, sum, count), group by, having clause, joins: cartesian product on two tables, equi-join and natural join ➢ Interface of python with an SQL database: connecting SQL with Python, performing insert, update, delete queries using cursor, display data by using connect(), cursor(), execute(), commit(), fetchone(), fetchall(), rowcount, creating database connectivity applications, use of %s format specifier or format() to perform queries Connecting to MySQL from Python
	November	***PRE-BOARD- 1 BEGINS***	
	December	***PRE-BOARD- 2 BEGINS***	
	January	**REVISION**	

HINDI

SUBJECT	MONTH	CHAPTERS	ACTIVITY/PROJECT/ART INTEGRATED PROJECT
HINDI	**APRIL**	भक्तिन बाजार दर्शन आत्म परिचय दिन जल्दी-जल्दी ढलता है सिल्वर वैडिंग	पीढ़ी का अंतराल वाद विवाद
	MAY	काले मेघा पानी दे पतंग कविता के बहाने, बात सीधी थी अप्रत्याशित विषयों पर लेखन	परियोजना कार्य
	JULY	पहलवान की ढोलक कैमरे में बंद अपाहिज जूझ ऊषा विभिन्न माध्यमों के लिए लेखन पत्रकारीय लेखन के विभिन्न रुप और लेखन प्रकिया	मीडिया की व्यवसायिकता पर साक्षात्कार
	AUGUST	शिरीष के फूल बादल राग कवितावली लक्ष्मण मूर्छा और राम का विलाप विशेष लेखन स्वरुप और प्रकार कहानी व नाटक की रचना	रेडियो नाटक का प्रस्तुतीकरण राम विलाप पर आधारित सामूहिक नाटिका
	SEPTEMBER	**अर्द्धवार्षिक परीक्षा**	
	OCTOBER	अतीत के दबे पाँव श्रम विभाजन और जातिप्रथा रुबाईयाँ समाचार लेखन	समाचार पत्र लेखन गतिविधि
	NOVEMBER	छोटा मेरा खेत , बगुलों के पंख फीचर व आलेख लेखन **PRE BOARD -1 BEGINS**	श्रवण तथा वाचन
	DECEMBER	**PRE BOARD -2 BEGINS**	
	JANUARY	**REVISION**	

MORAL SCIENCE

SUBJECT	MONTH	CHAPTERS	ACTIVITY/PROJECT/ART INTEGRATED PROJECT
MORAL SCIENCE	**APRIL**	Modern Lifestyle	----------
	MAY	Modern Day Slavery	----------
	JULY	Respecting Diversity Ragging- A torture Alcoholism	----------
	AUGUST	Choosing a Career Generation Gap Eve-Teasing	----------
	SEPTEMBER	Half Yearly	
	OCTOBER	Drug Addiction-A Menace AIDS- A Dreadful Disease Digital India	----------
	NOVEMBER	Gems of India Global Icons	PRE-BOARD I
	DECEMBER	PRE-BOARD II	
	JANUARY	**REVISION**	