S R Tangri DAV Public School Bilga SYLLABUS of Class XI - ARTS Stream (2024-25)

Subject: ENGLISH CORE (301)

Month	Hornbill	Snapshots	Reading & Writing Skills	Grammar &Language Activities	Activity
April	Introduction to the CLASS XI English Core(301)Curriculum & Question paper design 1.The Portrait of a Lady (prose) 2. A Photograph (Poem)	1.The Summer of the Beautiful White Horse	1.Reading Comprehension Practice 2.Classified Advertisements	1.Gap filling (Tenses, clauses)	Draw a portrait Of your grandmother and write a paragraph about her
May	3. We're not Afraid to Die if We Can All be Together(prose)	2. The Address Periodic test-I	1.Notes Making and Summarizing 2. Posters	1.Re- Ordering Of Sentences	Speech on ill effects of wars
July	4.The Laburnum Top (Poem) 5. Discovering Tut: The Saga Continues(prose)	1. Speech - related to some contemporary/ age appropriate topic	1. Transformation of sentences	Sketching comic Strips	
August	6.The Voice of the Rain (Poem) REVISION FOR HALF YEARLY EXAM	3. Mother's Day	1. Debate - related to some contemporary topical issues	1.Integrated Grammar Exercises	
October	7. The Adventure(prose) 8.Childhood (poem)	4. The Birth	1.Reading Comprehension Practice 2.Classified Advertisements 3.Posters Revision of Short & Long Compositions & Reading Comprehension	1.Gapfilling(Te nses, clauses) ASL Listening Activity 1 Speaking Activity 1	Prepare slide show of The Adventure
Novembe r	Silk Road(prose) Father to son. (poem)	The Tale Of Melon City	1.Notes Making and Summarizing Speech - related to some contemporary/ ageappropriate topic 3.Debate - related to some contemporary	1.Re- Ordering Of Sentences. 1.Transformat ion of sentences	

			topical issues	
December	Revision	Revision	Revision	Revision Of
				Integrated
				Grammar
				Exercises ASL
January	Revision	Revision	Revision	ASL Project
				Work &Viva
Feb-Mar	Exams			

Subject: PHYSICAL EDUCATION (048)

MONTH	CHAPTER	ACTIVITY
April	Ch-1 Changing Trends and career options in Phy. Edu	Presentation on career options in Phy. Edu
	Ch-2 Olympic Movement	
May	Ch-3 Yoga	Perform Different type of asanas related to
	Ch-4 Phy. Edu and sports for CWSN	different physical problems
July	Ch-5 Fitness - wellness and lifestyle	Make PPT on first Aid
August	Ch-6 Test and Measurements	Make Model on any organ system like Heart,
	Ch-7 Anatomy and Physiology	Respiration , skeleton.
October	Ch-8 Biomechanics and sports	Presentation on different type of movements.
	Ch-9 Psychology and Sports	
November	Ch-10 Training and Doping in sports	

Subject: HISTORY (027)

MONTH	LESSONS TO BE COVERED
April	Ch- 1Writing and City Life
	Ch- 2 An Empire Across Three Continents
May	Ch-3 Nomadic Empire
June	Summer Vacation
July	Ch-4 The Three Orders
August	Ch- 5 Changing Cultural Tradition
	Ch- 6 Displacing Indigenous People
September	Half Yearly Examination
October	Ch- 7 Paths to Modernization
November	Board Exams
December-	
February	Revision of Full Syllabus

Subject: POLITICAL SCIENCE (028)

MONTH	LESSONS TO BE COVERED
April	Part- A
	Ch- 1 Constitution: Why and How?
	Ch- 2 Rights in the Indian Constitution.
	Ch- 3 Election and Representation
May	Part-A Ch- 4 Executive
	Ch- 5 Legislature
	Ch- 6 Judiciary
	Ch- 7 Federalism
June	Summer Vacation
July	Part- A
	Ch- 8 Local Government
	Ch-9 Constitution as a Living Document
	Ch- 10 The Philosophy of the Constitution
	Part- B
	Ch- 1 Political Theory: An Introduction
August	Part-B
	Ch- 2 Freedom
	Ch- 3 Equality
	Ch- 4 Social justice
	Ch- 5 Rights
September	Half Yearly Examination
October	Part-B
	Ch- 6 Citizenship
	Ch-7 Nationalism
	Ch- 8 Secularism
November-	Revision of full syllabus
February	

Subject: HINDUSTANI MUSIC VOCAL (034)

MONTH	TOPICS	
April-May	Defination of Nada, Swara, Saptak, Brief study of Margi Sangeet, Dharupad, Teen tala,	
	Introduction of raga Bihag	
June –July	Definition ofSharuti, Thaat, Jati, Brief study of Desi sangeet, Khyal,	
	Life sketch of V.D Paluskar, Notation raga Bihag, Ek tala	
Aug-Sep	Definition of Laya, Tala, Raga, Life sketch of Tansen, raga Bhimplasi, Chautala	
Oct-Nov	Life sketch of VN Bhatkhande, Knowledge of the structure of Tanpura, Raga Bhairvi	

Subject: PAINTING (049)

MONTH	TOPICS
April-May	Unit I - 1. Pre-historic Rock painting
	2. Art of Indus Valley Civilisation
July - Aug	Buddhist , Jain & Hindu Art
	Unit II - 3. General Introduction of Art during Mauryan, Shunga, Kushana & Gupta Period
	4. Art of Ajanta
Sep - Oct -	Temple sculptures, Bronze & Indo-Islamic architecture
Nov	Unit III- 5. Indian Temple sculpture
	6. Indian Bronze architecture
	7. Indo-Islamic architecture

Subject: PUNJABI (104)

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Subject: BANKING (811)



S R Tangri DAV Public School Bilga SYLLABUS of Class XI - COMMERCE Stream (2024-25)

Subject: ENGLISH CORE (301)

Month	Hornbill	Snapshots	Reading & Writing Skills	Grammar &Language Activities	Activity
April	Introduction to the CLASS XI English Core(301)Curriculum & Question paper design 1.The Portrait of a Lady (prose) 2. A Photograph (Poem)	1.The Summer of the Beautiful White Horse	1.Reading Comprehension Practice 2.Classified Advertisements	1.Gap filling (Tenses, clauses)	Draw a portrait Of your grandmother and write a paragraph about her
May	3. We're not Afraid to Die if We Can All be Together(prose)	2. The Address Periodic test-I	1.Notes Making and Summarizing 2. Posters	1.Re- Ordering Of Sentences	Speech on ill effects of wars
July	4.The Laburnum Top (Poem) 5. Discovering Tut: The Saga Continues(prose)	1. Speech - related to some contemporary/ age appropriate topic	1. Transformation of sentences	Sketching comic Strips	
August	6.The Voice of the Rain (Poem) REVISION FOR HALF YEARLY EXAM	3. Mother's Day	1. Debate - related to some contemporary topical issues	1.Integrated Grammar Exercises	
October	7. The Adventure(prose) 8.Childhood (poem)	4. The Birth	1.Reading Comprehension Practice 2.Classified Advertisements 3.Posters Revision of Short & Long Compositions & Reading Comprehension	1.Gapfilling(Te nses, clauses) ASL Listening Activity 1 Speaking Activity 1	Prepare slide show of The Adventure
Novembe r	Silk Road(prose) Father to son. (poem)	The Tale Of Melon City	1.Notes Making and Summarizing Speech - related to some contemporary/ ageappropriate topic 3.Debate - related to some contemporary	1.Re- Ordering Of Sentences. 1.Transformat ion of sentences	

			topical issues	
December	Revision	Revision	Revision	Revision Of
				Integrated
				Grammar
				Exercises ASL
January	Revision	Revision	Revision	ASL Project
				Work &Viva
Feb-Mar	Exams			

Subject: PHYSICAL EDUCATION (048)

MONTH	CHAPTER	ACTIVITY
April	Ch-1 Changing Trends and career options in	Presentation on career options in Phy. Edu
	Phy. Edu	
	Ch-2 Olympic Movement	
May	Ch-3 Yoga	Perform Different type of asanas related to
	Ch-4 Phy. Edu and sports for CWSN	different physical problems
July	Ch-5 Fitness - wellness and lifestyle	Make PPT on first Aid
August	Ch-6 Test and Measurements	Make Model on any organ system like Heart,
	Ch-7 Anatomy and Physiology	Respiration , skeleton.
October	Ch-8 Biomechanics and sports	Presentation on different type of movements.
	Ch-9 Psychology and Sports	
November	Ch-10 Training and Doping in sports	

Subject: ECONOMICS (030)

MONTH	UNIT AND CONTENT	ACTIVITY
APRIL	Unit 4: Introduction Of Micro Economics	
	 Meaning of microeconomics and macroeconomics; positive and 	
	normative economics What is an economy?	
	 Central problems of an economy: what, how and for whom to produce; 	
	 Concepts of Production Possibility Frontier and Opportunity Cost. 	
	Unit 5: Consumer's Equilibrium	
	Consumer's equilibrium - meaning of Utility, Marginal Utility, Law of	
	Diminishing Marginal Utility, conditions of consumer's equilibrium using marginal utility analysis.	Role play (Water or Fruit Activity)
	 Indifference curve analysis of consumer's equilibrium-the consumer's budget (budget set and budget line), preferences of the consumer 	
	(indifference curve, indifference map) and conditions of consumer's equilibrium.	
	Unit 1: Introduction of Statistics	
	 What is Economics? Meaning, scope, functions and importance of statistics in Economics 	
MAY	Unit 2: Collection, Organisation and Presentation of data	Frame
	Collection of data - sources of data - primary and secondary; how basic	questionnaires

		1
	data is collected with concepts of Sampling; methods of collecting data;	
	some important sources of secondary data: Census of India and National	
	Sample Survey Organisation	
	 Organisation of Data: Meaning and types of variables; Frequency 	
	Distribution.	
	 Presentation of Data: Tabular Presentation and Diagrammatic 	Worksheets of
	Presentation of Data: (i) Geometric forms (bar diagrams and pie diagrams),	different types of
	(ii) Frequency diagrams (histogram, polygon and Ogive) and (iii) Arithmetic	graphs.
	line graphs (time series graph)	
JULY	Unit 5: Demand (cond.)	Daily life examples
	 Demand, market demand, determinants of demand, demand schedule, 	- 3,
	demand curve and its slope, movement along and shifts in the demand	
	curve;	Worksheet on
	 Price elasticity of demand - factors affecting price elasticity of demand; 	numericals related
	measurement of price elasticity of demand – percentage-change method	to the topic.
	and total expenditure method.	
	Unit 6: Producer Behaviour and Supply	Block and shape
	 Meaning of Production Function – Short-Run and Long-Run Total Product, 	activity
	Average Product and Marginal Product. Returns to a Factor	decivity
AUGUST	Unit 3: Statistical Tools and Interpretation	Worksheet on
7100001	Measures of Central Tendency- Arithmetic mean, Median and Mode	numericals related
	ividuates of central rendericy Attenuette mean, ividual and ividue	to the topic
SEPTEMBER	Revision & Exams	to the topic
OCTOBER	Unit 6: Producer Behaviour and Supply (contd.)	
o o i o o o o o o o o o o o o o o o o o	Cost – Short run costs - Total Cost, Total Fixed Cost, Total Variable Cost;	Worksheets on
	Average Cost; Average Fixed Cost, Average Variable Cost and Marginal Cost -	Numericals related
	meaning and their relationships.	to the topic
	Revenue – Total Revenue, Average Revenue and Marginal Revenue -	
	meaning and their relationship.	
	Unit 3: Statistical Tools and Interpretation (contd.)	
	 Correlation – meaning and properties, scatter diagram; measures of 	
	correlation - Karl Pearson's method (two variables ungrouped data)	
	Spearman's rank correlation (Non-Repeated Ranks and Repeated Ranks).	
NOVEMBER	Unit 6: Producer Behaviour and Supply (contd.)	
NO VENIBER	Producer's Equilibrium - meaning and its conditions in terms of Marginal	Worksheet on
	RevenueMarginal Cost.	numericals related
	 Supply, market supply, determinants of supply, supply schedule, supply 	to the topic
	curve and its slope, movements along and shifts in supply curve, price	
	elasticity of supply; measurement of price elasticity of supply - percentage-	
	change method.	
	Unit 3: Statistical Tools and Interpretation (contd.)	
	 Introduction to Index Numbers - meaning, types - Wholesale Price Index, 	
	Consumer Price Index and index of industrial production, uses of index	
	numbers; Inflation and Index Numbers, Simple Aggregative Method.	
DECEMBER	Unit 7: Perfect Competition - Price Determination and simple applications	
	Perfect competition - Features; Determination of market equilibrium	
	and effects of shifts in demand and supply. (Short Run Only)	
	 Simple Applications of Demand and Supply: Price ceiling, Price floor 	
	REVISION	
JAN & FEB	Revision & Exams	
JAN & FED	I/CAISIOH & TYGHI?	1

Subject: BUSINESS STUDIES (054)

## April ## Unit - 1 Business, Trade and Commerce (List of Primary, Secondary industries along with images Make a chart or PPT presentation. list of business, Profession and Employment, List of social objectives that a business can do), Mind Map, CASE Study Discussion ## Unit-2 Forms of Business Organisation, Formation of a Company (Role Play: A student acts as Sole Proprietor and then partnership, Co-operative society, HUF & JSC, their family occupation, they will tell about features.), Mind Map, CASE Study Discussion ## Unit-2 Forms of Business Organisation (Role Play: Students will acts as Sole Proprietor, partnership, Co-operative society, HUF & JSC, (their family occupation), they will tell about features.) (Make a chart of comparative difference and similarities of all forms of Business organisations), Practical File as SVHA ## Unit-3 Private, Public and Global Enterprises (Make a PPT of Departmental, Statuary & Govt. Company), Mind Map, CASE Study Discussion ## Unit-4 Business Services (List the Public Sector and Private Sector bank along with their Logos, their Share Capital, List of Service sectors and their growth from last ten years, List of Courier companies in India), Mind Map, CASE Study Discussion ## Unit-5 Emerging Modes of Business (List of e-commerce companies, Growth of Amazon in the form of Products and sales revenue), Mind Map, CASE Study Discussion ## Unit-6 Social Responsibilities of Business and Business Ethics, Mind Map, CASE Study Discussion ## Unit-7 Sources of Business Finance (Make a chart on Owners fund and borrowed funds), Mind Map, CASE Study Discussion ## Unit-9 Internal Trade (Make a chart on itinerants and fixed place retailers, with small explanations and keywords), Mind Map, CASE Study Discussion ## Unit-10 External Trade (India's trade with different countries, What are major imports and exports and their volume), Mind Map, CASE Study Discussion	A*I	345/CCC : DOSINESS (054)			
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	November				
		(India's trade with different countries, What are major imports and exports and their volume),			
Revision & Tests		Revision & Tests			
December Revision & Tests	December				
January Revision & Tests					
February Revision & Tests		Revision & Tests			

Subject: ACCOUNTANCY (055)



Subject: HINDUSTANI MUSIC VOCAL (034)

MONTH	TOPICS	
April-May	Defination of Nada, Swara, Saptak, Brief study of Margi Sangeet, Dharupad, Teen tala,	
	Introduction of raga Bihag	
June –July	Definition ofSharuti, Thaat, Jati, Brief study of Desi sangeet, Khyal,	
	Life sketch of V.D Paluskar, Notation raga Bihag, Ek tala	
Aug-Sep	Definition of Laya, Tala, Raga, Life sketch of Tansen, raga Bhimplasi, Chautala	
Oct-Nov	Life sketch of VN Bhatkhande, Knowledge of the structure of Tanpura, Raga Bhairvi	

Subject: PAINTING (049)

MONTH	TOPICS		
April-May	Unit I - 1. Pre-historic Rock painting		
	2. Art of Indus Valley Civilisation		
July - Aug	Buddhist , Jain & Hindu Art		
	Unit II - 3. General Introduction of Art during Mauryan, Shunga, Kushana & Gupta Period		
	4. Art of Ajanta		
Sep - Oct -	Temple sculptures, Bronze & Indo-Islamic architecture		
Nov	Unit III- 5. Indian Temple sculpture		
	6. Indian Bronze architecture		
	7. Indo-Islamic architecture		

S R Tangri DAV Public School Bilga SYLLABUS of Class XI - SCIENCE Stream (2024-25)

Subject: ENGLISH CORE (301)

Month	Hornbill	Snapshots	Reading & Writing Skills	Grammar &Language Activities	Activity
April	Introduction to the CLASS XI English Core(301)Curriculum & Question paper design 1.The Portrait of a Lady (prose) 2. A Photograph (Poem)	1.The Summer of the Beautiful White Horse	1.Reading Comprehension Practice 2.Classified Advertisements	1.Gap filling (Tenses, clauses)	Draw a portrait Of your grandmother and write a paragraph about her
May	3. We're not Afraid to Die if We Can All be Together(prose)	2. The Address Periodic test-I	1.Notes Making and Summarizing 2. Posters	1.Re- Ordering Of Sentences	Speech on ill effects of wars
July	4.The Laburnum Top (Poem) 5. Discovering Tut: The Saga Continues(prose)	1. Speech - related to some contemporary/ age appropriate topic	1. Transformation of sentences	Sketching comic Strips	
August	6.The Voice of the Rain (Poem) REVISION FOR HALF YEARLY EXAM	3. Mother's Day	1. Debate - related to some contemporary topical issues	1.Integrated Grammar Exercises	
October	7. The Adventure(prose) 8.Childhood (poem)	4. The Birth	1.Reading Comprehension Practice 2.Classified Advertisements 3.Posters Revision of Short & Long Compositions & Reading Comprehension	1.Gapfilling(Te nses, clauses) ASL Listening Activity 1 Speaking Activity 1	Prepare slide show of The Adventure
Novembe r	Silk Road(prose) Father to son. (poem)	The Tale Of Melon City	1.Notes Making and Summarizing Speech - related to some contemporary/ ageappropriate topic 3.Debate - related to some contemporary	1.Re- Ordering Of Sentences. 1.Transformat ion of sentences	

			topical issues	
December	Revision	Revision	Revision	Revision Of
				Integrated
				Grammar
				Exercises ASL
January	Revision	Revision	Revision	ASL Project
				Work &Viva
Feb-Mar	Exams			

Subject: PHYSICS (042)

Month	Name of Unit and chapter
April	Unit-I Physical World and Measurement
	Chapter–2: Units and Measurements
April/May	Unit-II Kinematics
	Chapter–3: Motion in a Straight Line
	Chapter–4: Motion in a Plane
May	Unit–III Laws of Motion
	Chapter–5: Laws of Motion
July	Unit–IV Work, Energy and Power
	Chapter–6: Work, Energy and Power
July /August	Unit-V Motion of System of Particles and Rigid Body
	Chapter–7: System of Particles and Rotational Motion
August	Unit-VI Gravitation
	Chapter–8: Gravitation
September/october	Unit–VII Properties of Bulk Matter
	Chapter–9: Mechanical Properties of Solids
	Chapter–10: Mechanical Properties of Fluids
	Chapter–11: Thermal Properties of Matter
November	Unit-VIII Thermodynamics
Chapter–12: Thermodynamics	
November	Unit–IX Behaviour of Perfect Gases and Kinetic Theory of Gases
	Chapter–13: Kinetic Theory
November/December	Unit–X Oscillations and Waves
	Chapter–14: Oscillations
	Chapter–15: Waves

PHYSICS (042) Practicals

SECTION-A

Experiments

- 1. To measure diameter of a small spherical/cylindrical body and to measure internal diameter and depth of a given beaker/calorimeter using Vernier Callipers and hence find its volume.
- 2. To measure diameter of a given wire and thickness of a given sheet using screw gauge.
- 3. To determine volume of an irregular lamina using screw gauge.
- 4. To determine radius of curvature of a given spherical surface by a spherometer.
- 5. To determine the mass of two different objects using a beam balance.
- 6. To find the weight of a given body using parallelogram law of vectors.
- 7. Using a simple pendulum, plot its L-T² graph and use it to find the effective length of second's pendulum.
- 8. To study variation of time period of a simple pendulum of a given length by taking bobs of same size but different masses and interpret the result.

- 9. To study the relationship between force of limiting friction and normal reaction and to find the co- efficient of friction between a block and a horizontal surface.
- 10.To find the downward force, along an inclined plane, acting on a roller due to gravitational pull of the earth and study its relationship with the angle of inclination θ by plotting graph between force and $Sin\theta$.

Activities

- 1.To make a paper scale of given least count, e.g., 0.2cm, 0.5 cm.
- 2. To determine mass of a given body using a metre scale by principle of moments.
- 3. To plot a graph for a given set of data, with proper choice of scales and error bars.
- 4. To measure the force of limiting friction for rolling of a roller on a horizontal plane.
- 5. To study the variation in range of a projectile with angle of projection.
- 6. To study the conservation of energy of a ball rolling down on an inclined plane (using a double inclined plane).
- 7. To study dissipation of energy of a simple pendulum by plotting a graph between square of amplitude and time.

SECTION-B

Experiments

- 1. To determine Young's modulus of elasticity of the material of a given wire.
- 2. To find the force constant of a helical spring by plotting a graph between load and extension.
- 3. To study the variation in volume with pressure for a sample of air at constant temperature by plotting graphs between P and V, and between P and 1/V.
- 4. To determine the surface tension of water by capillary rise method.
- 5. To determine the coefficient of viscosity of a given viscous liquid by measuring terminal velocity of a given spherical body.
- 6. To study the relationship between the temperature of a hot body and time by plotting a cooling curve. 7. To determine specific heat capacity of a given solid by method of mixtures.
- 8. To study the relation between frequency and length of a given wire under constant tension using sonometer.
- 9. To study the relation between the length of a given wire and tension for constant frequency using sonometer.
- 10.To find the speed of sound in air at room temperature using a resonance tube by two resonance positions. Activities
- 1. To observe change of state and plot a cooling curve for molten wax.
- 2. To observe and explain the effect of heating on a bi-metallic strip.
- 3. To note the change in level of liquid in a container on heating and interpret the observations.
- 4. To study the effect of detergent on surface tension of water by observing capillary rise.
- 5. To study the factors affecting the rate of loss of heat of a liquid.
- 6. To study the effect of load on depression of a suitably clamped metre scale loaded at (i) its end (ii) in the middle.
- 7. To observe the decrease in pressure with increase in velocity of a fluid.

Experiments

Subject: CHEMISTRY (043)

MONTH	TOPICS	
APRIL	Ch 1 Some basic concepts of chemistry	
	Ch 2 Structure of the atom	
MAY	Ch 2 Structure of the atom (contd)	
	Ch 5 redox reactions	
JULY	Ch 3 Periodic classification of elements	
	Ch 4 Chemical bonding and molecular structure	
AUGUST	Ch 4 Chemical bonding and molecular structure (contd)	
	Ch 6 Thermodynamics	
OCTOBER	Ch 6 Thermodynamics (Contd)	
	Ch 7 Equilibrium	
NOVEMBER	Ch 8 organic chemistry	
	Ch 9 Hydrocarbons	

CHEMISTRY (043) Practicals

- A. Basic Laboratory Techniques 1. Cutting glass tube and glass rod
- 2. Bending a glass tube
- 3. Drawing out a glass jet
- 4. Boring a cork
- B. Characterization and Purification of Chemical Substances
- 1. Determination of melting point of an organic compound.
- 2. Determination of boiling point of an organic compound.
- 3. Crystallization of impure sample of any one of the following: Alum, Copper Sulphate, Benzoic Acid.
- C. Experiments based on pH a) Any one of the following experiments: Determination of pH of some solutions obtained from fruit juices, solution of known and varied concentrations of acids, bases and salts using pH paper or universal indicator. Comparing the pH of solutions of strong and weak acids of same concentration. Study the pH change in the titration of a strong base using universal indicator.
- b) Study the pH change by common-ion in case of weak acids and weak bases.
- D. Chemical Equilibrium One of the following experiments: a) Study the shift in equilibrium between ferric ions and thiocyanate ions by increasing/decreasing the concentration of either of the ions.
- b) Study the shift in equilibrium between [Co(H2O)6] 2+ and chloride ions by changing the concentration of either of the ions.
- E. Quantitative Estimation i. Using a mechanical balance/electronic balance.
- ii. Preparation of standard solution of Oxalic acid.
- iii. Determination of strength of a given solution of Sodium hydroxide by titrating it against standard solution of Oxalic acid.
- iv. Preparation of standard solution of Sodium carbonate
- v. Determination of strength of a given solution of hydrochloric acid by titrating it against standard Sodium Carbonate solution.
- F. Qualitative Analysis
- a) Determination of one anion and one cation in a given salt Cations- Pb2+, Cu2+, As3+, Al3+, Fe3+, Mn2+, Ni2+, Zn2+, Co2+, Ca2+, Sr2+, Ba2+, Mg2+, NH4 + Anions CO3 2--, S 2-, NO2 -, SO3 2--, SO4 2-, NO3 -, Cl-, Br-, I-, PO4 3-, CH3COO- (Note: Insoluble salts excluded)
- b) Detection of -Nitrogen, Sulphur, Chlorine in organic compounds.

Subject: MATHEMATICS (041)

Month	Topic
April -May	Sets , Relations and Functions, Trigonometric Functions , Permutations and Combinations
June-July	Linear Inequalities, Limits and Derivatives, Binomial Theorm
August -September	Complex Numbers , Sequence and Series , 3 D Geometry, Probability
October	Straight Lines , Statistics

Subject: BIOLOGY (044)

Month	Chapters (Total No of chapters :22 Deleted : 19)		
April	Ch- 1 The Living world, Ch-2 Biological Classification,		
	Ch- 17 Breathing & Exchange of gases		
May	Ch- 18 Body fluids & Circulation, Ch- 19 Excretory Products & their Elimination,		
	Ch-20 Locomotion & movement, Ch- 21 Neural Control & Coordination,		
	Ch-22 Chemical coordination & Integration		
July	Ch-8 Cell the unit of life,Ch-10 Cell cycle & cell division		
August	Ch-3 Plant Kingdom , Ch-4 Animal Kingdom, Ch-5 Morphology of flowering plant		
September	Ch-15 Plant growth & development, Ch-7 Structural Organisation in Animals		
October	Ch-13 Phtosynthesis in Higher Plants, Ch-14 Respiration In plants		
November	Ch-6 Anatomy of flowering Plant , Ch- 9 Biomolecules		
December	Examination		
January	Revision		
February	Final Examination		

BIOLOGY (044) Practicals

MONTH	DETAILSOFTHEEXPERIMENTS TO BE	DETAILSOFTHESPOTTINGS TO BE PERFORMED
	PERFORMED	
	1. Study and describe three locally	
May	available common flowering plants	
	one each of the families Solanaceae,	
	Fabaceae and Liliaceae.	
	2. Preparation and study of T.SDicot	1. Study of plant specimens, slides/models of bacteria,
July	and Monocot roots and stems	oscillatoria, spirogyra, Rhizopus, Mushroom, Yeast, Liverwort,
		Moss, Pine, fern, Lichen, one monocot and onedicotplant.
Aug	3.Study osmosis by potato	2. Study of Animal specimens/slides
	osmometer.	/Models of Amoeba, Hydra, Liverfluke, Ascaris, Leech,
		earthworm, prawn, silkworm, honeybee, snail, starfish, shark,
		rohu,frog,lizard,pegion,rabbit.
	4. Study of distribution of stomata	3. a. Study of palisade cell, parenchyma, collenchymas,
Sep	for the comparative study of rates of	sclerenchyma, xylem, phloem from planttissue.
	transpiration.	b. Squamous epithelium,muscle fibre and mammalian blood
		smear from animal tissue through temporary or permanent
		slides.
Oct	5.Test for the presence of sugar	4. Study of Mitosis in onion root tip cells and grasshopper cells
	starch and proteins & fats.	from permanent slides.
		5.Study of imbibitions in seeds/raisins
	6. Separation of plant pigments	6. Study of different modifications in root, stem and leaves.
Nov	through paper chromatography.	7. Study of different types of cymose and racemose
	7. Study the rate of respiration.	inflorescence

		8. Observation and Comment on the experimental set up for
	sharing aerobic respiration, phototropism and ap	
		removal and suction due to transpiration.
	8. To test the presence of sugar and	9. Study of human skeleton and types of joints.
Dec	urea in urine.	10. Study of external Morphology of cockroach through
	9. To test the presence of albumin	specimens/models.
	and Bile salts in urine.	

Subject: PHYSICAL EDUCATION (048)

MONTH	CHAPTER	ACTIVITY
April	Ch-1 Changing Trends and career options in	Presentation on career options in Phy. Edu
	Phy. Edu	
	Ch-2 Olympic Movement	
May	Ch-3 Yoga	Perform Different type of asanas related to
	Ch-4 Phy. Edu and sports for CWSN	different physical problems
July	Ch-5 Fitness - wellness and lifestyle	Make PPT on first Aid
August	Ch-6 Test and Measurements	Make Model on any organ system like Heart,
	Ch-7 Anatomy and Physiology	Respiration, skeleton.
October	Ch-8 Biomechanics and sports	Presentation on different type of
	Ch-9 Psychology and Sports	movements.
November	Ch-10 Training and Doping in sports	

Subject: HINDUSTANI MUSIC VOCAL (034)

MONTH	TOPICS
April-May	Defination of Nada, Swara, Saptak, Brief study of Margi Sangeet, Dharupad, Teen tala,
	Introduction of raga Bihag
June –July	Definition ofSharuti, Thaat, Jati, Brief study of Desi sangeet, Khyal,
	Life sketch of V.D Paluskar, Notation raga Bihag, Ek tala
Aug-Sep	Definition of Laya, Tala, Raga, Life sketch of Tansen, raga Bhimplasi, Chautala
Oct-Nov	Life sketch of VN Bhatkhande, Knowledge of the structure of Tanpura, Raga Bhairvi

Subject: PAINTING (049)

MONTH	TOPICS
April-May	Unit I - 1. Pre-historic Rock painting
	2. Art of Indus Valley Civilisation
July - Aug	Buddhist , Jain & Hindu Art
	Unit II - 3. General Introduction of Art during Mauryan, Shunga, Kushana & Gupta Period
	4. Art of Ajanta
Sep - Oct -	Temple sculptures, Bronze & Indo-Islamic architecture
Nov	Unit III- 5. Indian Temple sculpture
	6. Indian Bronze architecture
	7. Indo-Islamic architecture