

SARALA BIRLA PUBLIC SCHOOL



Birla Knowledge City, Ranchi Purulia Highway Village –Ara, P.O.- Mahilong Ranchi – 835103, Jharkhand

SYLLABUS

STD - XII (SCIENCE)

SESSION - 2023-24

Name:	 	
UID No. :	 	
Class and Section:		

SUBJECT: ENGLISH (301)

	7 12U (201	
Prescribed	1)	ENGLISH TEXT BOOK (FLAMINGO)- NCERT
Books:	2)	SUPPLEMENTARY READER (VISTAS)- NCERT
Month	Total No. of periods	Lesson/Chapter
		FLAMINGO-The Last Lesson, My Mother at Sixty-six
April		VISTAS-The Third Level
		Notice Writing
May		FLAMINGO- Lost Spring, Deep Water
Iviay		Article writing
		FLAMINGO- Keeping Quiet
June		VISTAS: The Tiger King
		Invitations and Replies
		FLAMINGO- The Rattrap, A Thing of Beauty
July		VISTAS- Journey to the End of the Earth
		Application for a Job with Bio-Data or a Resume
		FLAMINGO- Indigo, Poets and Pancakes
August		VISTAS- The Enemy
		Letter to the Editor
September		REVISION
		HALF YEARLY EXAMS
		FLAMINGO- The Interview, Aunt Jennifer's Tigers
October		VISTAS- On the Face of It
		Report writing
November		FLAMINGO- Going Places, A Roadside Stand
		VISTAS- Memories of Childhood
December		Revision
January		Revision
		Syllabus for Term Exams and Periodic Test
		TERM-1
Periodic		Unseen Passage, Notice writing, The Last Lesson
Periodic [*]	Test 2	Unseen Passage, Article writing, Lost Spring, Keeping Quiet, The Third Level
		DISTRIBUTION OF MARKS
		READING SKILLS- 22 MARKS
Half yearly		CREATIVE WRITING SKILLS- 18 MARKS
Portion taught from April to August		LITERATURE- 40 MARKS
		Assessment of Listening Skills - 05 marks
		Assessment of Speaking Skills – 05 Marks
Project Work – 10 marks		
TERM-2		
Periodic Test 3		Unseen passage, Letter to the Editor, The Interview, Aunt Jennifer's Tiger
Periodic Test 4		Unseen passage, Report writing, On the Face of It, A Roadside Stand
Annual I	Exam	
		Complete syllabus
PRE- BOARD 1 AND		DISTRIBUTION OF MARKS
		READING SKILLS- 22 MARKS
		CREATIVE WRITING SKILLS- 18 MARKS
PRE-BOA	AKD 2	LITERATURE- 40 MARKS
		Assessment of Listening Skills - 05 marks
		Assessment of Speaking Skills – 05 Marks
		Project Work – 10 marks

SUBJECT: PHYSICS (042)

SUBJECT. PH	13163 (042	<u> </u>	
	1)	NCERT Textbook (Part 1 & Part 2)	
Prescribed	2)	New Simplified PHYSICS - S.L. ARORA (Ref Book)	
	3)	NCERT Exemplar	
	4)	Physics Practical Book – Arihant Publication	
Month	Total No. of periods	Lesson/Chapter	
	0. po. 1000	Unit -1	
April		Chapter 1 : Electric Charges And Fields	
		Chapter 2 : Electrostatic Potential And Capacitance	
		Unit -2	
May		Chapter 3 : Current Electricity	
,		Unit - 3	
		Chapter 4: Moving Charges And Magnetism	
		Unit - 3 Chapter F : Magnetism And Matter	
June		Chapter 5: Magnetism And Matter Unit - 5	
		Chapter 8 : Electromagnetic Waves	
		Unit - 4	
		Chapter 6 : Electromagnetic Induction	
July		Chapter 7 : Alternating Current	
		Unit - 6	
	Chapter 9: Ray Optics And Optical Instruments		
		Unit - 6	
August		Chapter 9: Ray Optics And Optical Instruments	
Contombor		Chapter 10: Wave Optics	
September		Revision + Half Yearly Exam Unit - 7	
		Chapter 11 : Dual Nature Of Radiation And Matter	
October		Unit- 8	
		Chapter 12 : Atoms	
		Chapter 13 : Nuclei	
		Unit - 9	
November		Chapter 14 : Semiconductor ,Electronics : Materials, Devices and simple	
		circuits	
December		Revision + Pre-Board 1	
January		Pre-Board 2	
February		Board Practical Exam	
March		Board Exam	
Syllabus for Term Exams and Periodic Test			
PERIODIC TEST-1 & 2			
I) Chapter 1: Electric Charges and Fields			
Periodic Test		2) Chapter 2: Electrostatic Potential and Capacitance	
Chapter 3: Current Electricity			
PERIODIC TEST-3 & 4			
		3) Chapter 9: Ray Optics and Optical Instruments	
- : المناه ما	Tost	Chapter 10: Wave Optics	
Periodic	1621	Chapter 8: Electromagnetic Waves 4) Chapter 11: Dual nature of radiation and matter	
		Chapter 11: Dual nature of radiation and matter Chapter 12 & 13: Atoms and Nuclei	
Chapter 12 & 15. Atoms and Nuclei			

	Record of at least 8 experiments (with a minimum of four from each section)
Activities	2) Record of at least 6 activities with a minimum of three, each from section A
	& section B
	3) Investigatory Project- Working model and handwritten report of the
	project
Term 1	Chapter 1 : Electric Charges And Fields
	Chapter 2 : Electrostatic Potential And Capacitance
	Chapter 3 : Current Electricity
	Chapter 4: Moving Charges And Magnetism
	Chapter 5: Magnetism And Matter
	Chapter 6 : Electromagnetic Induction
	Chapter 7 : Alternating Current
	Chapter 8 : Electromagnetic Waves
Pre-board	Whole syllabus

SUBJECT: CHEMISTRY (043)

Prescribed Books: 3) Chemistry Practicals- Dinesh Publication (Lab Book) 4) Month Total No. of periods Ch:6-Haloalkanes and Haloarenes Ch:7-Alcohols, Phenols and Ethers Ch:8-Aldehydes, Ketones and Carboxylic Acids. Ch:9-Amines. June Ch:10-Biomolecules Ch:1-Solution July Ch:2-Chectrochemistry Ch:3-Chemical Kinetics August Revision & Half Yearly Exam September Revision & Half Yearly Exam Ch:4-The d-& f-block elements Ch:4-The d-& f-block elements Chapterwise Revision. December January Pre Board/Revision/Practical Exam(Board) February March Syllabus for Term Exams and Periodic Test TERM-1		1)	NCERT Text Book (Part 1+ Part 2)
Month Month Total No. of periods Ch:6-Haloalkanes and Haloarenes Ch:7-Alcohols, Phenols and Ethers Ch:8-Aldehydes, Ketones and Carboxylic Acids. May Ch:8-Aldehydes, Ketones and Carboxylic Acids. Ch:9-Amines. June Ch:10-Biomolecules Ch:1-Solution Ch:2-Electrochemistry Ch:3-Chemical Kinetics August Revision & Half Yearly Exam September Revision & Half Yearly Exam October Ch:4-The d-& f-block elements Ch:4-The d-& f-block elements Chapterwise Revision. December January Pre Board/Revision January Pre Board/Revision/Practical Exam(Board) February March Syllabus for Term Exams and Periodic Test	Prescribed	2)	NCERT Exemplar
Month Total No. of periods Lesson/Chapter April Ch:6-Haloalkanes and Haloarenes Ch:7-Alcohols, Phenols and Ethers Ch:8-Aldehydes, Ketones and Carboxylic Acids. May Ch:8-Aldehydes, Ketones and Carboxylic Acids. Ch:9-Amines. June Ch:10-Biomolecules Ch:1-Solution July Ch:2-Electrochemistry Ch:3-Chemical Kinetics August Revision & Half Yearly Exam September Revision & Half Yearly Exam October Ch:5-Cordination Compounds Ch:4-The d-& f-block elements November Ch:4-The d-& f-block elements November Pre Board/Revision January Pre Board/Revision/Practical Exam(Board) February Practical Exam (Board) March Final Exam (Board) Syllabus for Term Exams and Periodic Test	Books:	3)	Chemistry Practicals- Dinesh Publication (Lab Book)
Month of periods Ch:6-Haloalkanes and Haloarenes Ch:7-Alcohols, Phenols and Ethers Ch:8-Aldehydes,Ketones and Carboxylic Acids. May Ch:9-Amines. Ch:10-Biomolecules Ch:1-Solution July Ch:2-Electrochemistry Ch:3-Chemical Kinetics August Revision & Half Yearly Exam September October Ch:5-Cordination Compounds Ch:4-The d-& f-block elements Ch:4-The d-& f-block elements Chapterwise Revision/Practical Exam(Board) February Practical Exam (Board) Syllabus for Term Exams and Periodic Test		4)	
April Ch:7-Alcohols, Phenols and Ethers Ch:8-Aldehydes, Ketones and Carboxylic Acids. Ch:9-Amines. June Ch:10-Biomolecules Ch:1-Solution July Ch:3-Chemical Kinetics August Revision & Half Yearly Exam September Revision & Half Yearly Exam October Ch:4-The d-& f-block elements Ch:4-The d-& f-block elements Chapterwise Revision. December Pre Board/Revision January Pre Board/Revision/Practical Exam(Board) March Sun Acids Aci	Month		Lesson/Chapter
Ch:8-Aldehydes,Ketones and Carboxylic Acids. Ch:8-Aldehydes,Ketones and Carboxylic Acids. Ch:9-Amines. June Ch:10-Biomolecules Ch:1-Solution Ch:2-Electrochemistry Ch:3-Chemical Kinetics August Revision & Half Yearly Exam September Revision & Half Yearly Exam Ch:5-Cordination Compounds Ch:4-The d-& f-block elements Ch:4-The d-& f-block elements Chapterwise Revision. December Pre Board/Revision January Pre Board/Revision/Practical Exam(Board) February Practical Exam (Board) Syllabus for Term Exams and Periodic Test			Ch:6-Haloalkanes and Haloarenes
May Ch:8-Aldehydes,Ketones and Carboxylic Acids. Ch:9-Amines. June Ch:10-Biomolecules Ch:1-Solution July Ch:2-Electrochemistry Ch:3-Chemical Kinetics August Revision & Half Yearly Exam September Revision & Half Yearly Exam Ch:5-Cordination Compounds Ch:4-The d-& f-block elements Ch:4-The d-& f-block elements Chapterwise Revision. December January Pre Board/Revision January Pre Board/Revision/Practical Exam(Board) February March Final Exam (Board) Syllabus for Term Exams and Periodic Test	April		Ch:7-Alcohols, Phenols and Ethers
June Ch:10-Biomolecules Ch:10-Biomolecules Ch:1-Solution July Ch:2-Electrochemistry Ch:3-Chemical Kinetics August Revision & Half Yearly Exam September Revision & Half Yearly Exam October Ch:5-Cordination Compounds Ch:4-The d-& f-block elements November Ch:4-The d-& f-block elements Ch:2-Electrochemistry Ch:2-Electrochemistry Ch:3-Chemical Kinetics Ch:4-Chemical			Ch:8-Aldehydes, Ketones and Carboxylic Acids.
June Ch:10-Biomolecules Ch:1-Solution Ch:2-Electrochemistry Ch:3-Chemical Kinetics August Revision & Half Yearly Exam September October Ch:5-Cordination Compounds Ch:4-The d-& f-block elements Ch:4-The d-& f-block elements Chapterwise Revision. December Pre Board/Revision January Pre Board/Revision/Practical Exam(Board) February March Final Exam (Board) Syllabus for Term Exams and Periodic Test	May		Ch:8-Aldehydes, Ketones and Carboxylic Acids.
July Ch:2-Electrochemistry Ch:3-Chemical Kinetics August Revision & Half Yearly Exam September Revision & Half Yearly Exam Ch:5-Cordination Compounds Ch:4-The d-& f-block elements Ch:4-The d-& f-block elements Chapterwise Revision. December Pre Board/Revision January Pre Board/Revision/Practical Exam(Board) February Practical Exam (Board) March Syllabus for Term Exams and Periodic Test	iviay		Ch:9-Amines.
July Ch:2-Electrochemistry Ch:3-Chemical Kinetics August Revision & Half Yearly Exam September Revision & Half Yearly Exam October Ch:5-Cordination Compounds Ch:4-The d-& f-block elements November Ch:4-The d-& f-block elements Ch:4-The d-	lune		Ch:10-Biomolecules
August Revision & Half Yearly Exam September Revision & Half Yearly Exam October Ch:5-Cordination Compounds Ch:4-The d-& f-block elements Ch:4-The d-& f-block elements Chapterwise Revision. December Pre Board/Revision January Pre Board/Revision/Practical Exam(Board) February Practical Exam (Board) March Final Exam (Board) Syllabus for Term Exams and Periodic Test	Julie		Ch:1-Solution
August Revision & Half Yearly Exam September Revision & Half Yearly Exam October Ch:5-Cordination Compounds Ch:4-The d-& f-block elements Ch:4-The d-& f-block elements Chapterwise Revision. December Pre Board/Revision January Pre Board/Revision/Practical Exam(Board) February Practical Exam (Board) March Final Exam (Board) Syllabus for Term Exams and Periodic Test	luk		Ch:2-Electrochemistry
September Revision & Half Yearly Exam October Ch:5-Cordination Compounds Ch:4-The d-& f-block elements November Ch:4-The d-& f-block elements Chapterwise Revision. December Pre Board/Revision January Pre Board/Revision/Practical Exam(Board) February Practical Exam (Board) March Final Exam (Board) Syllabus for Term Exams and Periodic Test	July		Ch:3-Chemical Kinetics
October Ch:5-Cordination Compounds Ch:4-The d-& f-block elements Ch:4-The d-& f-block elements Chapterwise Revision. December Pre Board/Revision January Pre Board/Revision/Practical Exam(Board) February Practical Exam (Board) March Syllabus for Term Exams and Periodic Test	August		Revision & Half Yearly Exam
October Ch:4-The d-& f-block elements Ch:4-The d-& f-block elements Chapterwise Revision. December Pre Board/Revision January Pre Board/Revision/Practical Exam(Board) February Practical Exam (Board) March Syllabus for Term Exams and Periodic Test	September		Revision & Half Yearly Exam
November Ch:4-The d-& f-block elements Ch:4-The d-& f-block elements Chapterwise Revision. December January Pre Board/Revision/Practical Exam(Board) February Practical Exam (Board) March Final Exam (Board) Syllabus for Term Exams and Periodic Test	Octobor		Ch:5-Cordination Compounds
November Chapterwise Revision. December Pre Board/Revision January Pre Board/Revision/Practical Exam(Board) February Practical Exam (Board) March Final Exam (Board) Syllabus for Term Exams and Periodic Test	Octobel		Ch:4-The d-& f-block elements
Chapterwise Revision. December Pre Board/Revision January Pre Board/Revision/Practical Exam(Board) February Practical Exam (Board) March Final Exam (Board) Syllabus for Term Exams and Periodic Test	November		Ch:4-The d-& f-block elements
January Pre Board/Revision/Practical Exam(Board) February Practical Exam (Board) March Final Exam (Board) Syllabus for Term Exams and Periodic Test	November		Chapterwise Revision.
February Practical Exam (Board) March Final Exam (Board) Syllabus for Term Exams and Periodic Test	December		Pre Board/Revision
March Final Exam (Board) Syllabus for Term Exams and Periodic Test	January		Pre Board/Revision/Practical Exam(Board)
Syllabus for Term Exams and Periodic Test	February		Practical Exam (Board)
·	March		Final Exam (Board)
TERM-1			
	TERM-1		
1) Ch:6-Haloalkanes & Haloarenes			1) Ch:6-Haloalkanes & Haloarenes
2) Ch:7-Alcohols, Phenols & Ethers	Periodic Test		2) Ch:7-Alcohols, Phenols & Ethers
Ch:8-Aldehydes, Ketones and Carboxylic Acids.			Ch:8-Aldehydes, Ketones and Carboxylic Acids.
Ch:9-Amines			Ch:9-Amines
Volumetric Analysis			Volumetric Analysis
Content Based Experiment	۸ -+۰ ۰۰	L:	Content Based Experiment
Activities Salt Analysis	ACTIVIT	ties	Salt Analysis
Project Work			Project Work

TERM-2 (Annual)		
	3) Ch:1-Solution	
	Ch:2- Electrochemistry	
Periodic Test	Ch:3-Chemical Kinetics	
	4) Ch:4-The d-& f-block elements	
	Ch:5-Cordination Compounds	
	Volumetric Analysis	
Activities	Content Based Experiment	
Activities	Salt Analysis	
	Project Work	
	Ch:1-Solution	
	Ch:2- Electrochemistry	
	Ch:3-Chemical Kinetics	
Term 1	Ch:6-Haloalkanes and Haloarenes	
Termin	Ch:7-Alcohols, Phenols and Ethers	
	Ch:8-Aldehydes,Ketones and Carboxylic Acids.	
	Ch:9-Amines.	
	Ch:10-Biomolecules	
Term 2/Annual Exam	Ch:1-Solution	
	Ch:2- Electrochemistry	
	Ch:3-Chemical Kinetics	
	Ch:4-The d-& f-block elements	
	Ch:5-Cordination Compounds	
	Ch:6-Haloalkanes and Haloarene	
	Ch:7-Alcohols, Phenols and Ethers	
	Ch:8-Aldehydes,Ketones and Carboxylic Acids	
	Ch:9-Amines	
	Ch:10-Biomolecules.	

SUBJECT: BIOLOGY (044)

Prescribed	1)	Textbook for Class 12 (NCERT)
Books:	2)	Laboratory Manual in Biology
Month	Total No. of periods	Lesson/Chapter
		Unit 6: Reproduction
April		Chapter 1: Sexual Reproduction in Flowering Plants
		Chapter 2: Human Reproduction
		Chapter 3: Reproductive Health
May		Unit 7: Genetics and Evolution
		Chapter 4: Principles of Inheritance and Variation
		Chapter 5: Molecular Basis of Inheritance
luno		Chapter 6: Evolution
June		Unit 8: Biology in Human Welfare
		Chapter 7: Human Health and Diseases
		Chapter 8: Microbes in Human Welfare
July		Unit 9: Biotechnology
		Chapter 9: Biotechnology: Principles and Processes
		Chapter 10: Biotechnology and its Applications
August		Unit 10: Ecology
		Chapter 11: Organisms and Population
		Chapter 12: Ecosystem
September		Revision and Term 1 Examinations
October		Chapter 13: Biodiversity and Conservation

November		Revision
December		Revision
January		Pre- Board Examination
		Syllabus for Term Exams and Periodic Test
		TERM-1
		1) PT 1:
		Sexual Reproduction in Flowering Plants
Periodic	Test	2) PT 2:
		Human Reproduction, Reproductive health, Principles of Inheritance and Variation
		Chapter 1: Sexual Reproduction in Flowering Plants
		Chapter 2: Human Reproduction
		Chapter 3: Reproductive Health
Term	-1	Chapter 4: Principles of Inheritance and Variation
	-	Chapter 5: Molecular Basis of Inheritance
		Chapter 6: Evolution
		Chapter 7: Human Health and Diseases
		Activities: Term 1:
		Experiments:
		1) Prepare a temporary mount to observe pollen germination.
		2) Study the plant population density by Quadrat method
		3) Study the plant population frequency by Quadrat method.
		4) Prepare a temporary mount of onion root tip to study mitosis.
		5) Isolate DNA from available plant material such as spinach, green pea seed,
		papaya etc.
Activit	ies	Observation/ Spotting:
		1) Flowers adapted to pollination by different agencies(wind, insects, birds)
		2) Pollen germination on stigma through a permanent slide or scanning
		electron micrograph.
		3) Identification of stages of gamete development, ie, T.S. of testis and T.S. of
		ovary through permanent slides (from grasshopper/mice). 4) Meiosis in onion bud cell or grasshopper testis through permanent slides.
		5) T.S. of blastula through permanent slides(Mammalian)
		6) Mendelian inheritance using seeds of different colour /sizes of any plant.
		TERM-2 (Annual) PT 3:
		Microbes in Human Welfare, Biotechnology: Principles and Processes and
Periodic	Toct	Biotechnology and its Applications.
renouic	1631	PT 4:
		Organisms and Populations, Ecosystem and Biodiversity and Conservation
		Activities: Term 2:
		Observation/ Spotting:
		7) Prepare Pedigree charts of any one of the genetic traits such as rolling
Activities		tongue, blood groups, ear lobes, widow's peak and colour blindness.
Activit	ies	8) Controlled pollination -emasculation, tagging and bagging.
		9) Common disease causing organisms like Ascaris, Entamoeba, Plasmodium,
		any fungus causing ringworm through permanent slides, models or virtual
		images or specimens. Comment on symptoms of disease that they cause.
A 1 -	Tvore	Chapter 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13
Annual E	exam	Whole Book
L		

SUBJECT: STANDARD MATHEMATICS (041)

Prescribed		NCERT
Books:		NCERT EXEMPLAR
Month		Topics/Lessons
April		3. Matrices4. Determinants
May		 Relations and Functions Inverse Trigonometric Functions
June		5. Continuity and Differentiability
July		6. Application of Derivatives7. Integrals
August		8. Application of Integrals9. Differential EquationsRevision for Half yearly exam
September		Half yearly exam
October		10. Vectors 11. Three-dimensional Geometry
November		12. Linear Programming 13. Probability
December		REVISION PRE BOARD
January		PRE BOARD
February		
March		
Syllabus for Term and Periodic Test		
Term 1 (Half Yearly Exam)		
Periodic Test-1		Matrices Determinants
Periodic Test-2		Continuity and Differentiability Application of Derivatives
Half Yearly Exam		Chapter – 1 to 8
Periodic T		Vector Three-dimensional Geometry
Periodic T	est-4	Probability

SUBJECT: APPLIED MATHEMATICS (241)

Prescribed Books:	NCERT NCERT EXEMPLER
Month	Topics/Lessons
April	3. Matrices4. Determinants
May	 Numbers, Quantification and Numerical Applications Numerical Inequalities
June	5. Differentiation
July	6. Application of Derivatives 10. Inferential Statistics
August	7. Integrals8. Differential EquationsRevision for Half yearly exam

September	HALF YEARLY EXAM	
	11. Time based data	
October	12. Perpetuity, Sinking Funds and EMI	
	14. Returns, Growth and Depreciation	
	9. Probability	
November	15. Linear Programming	
	Revision for Pre-board exam	
December	Pre-board exam	
January	Pre- board exam	
February		
March		
Syllabus for Term and Periodic Test		
Term 1 (Half Yearly Exam)		
Periodic Test-	Matrices	
Periodic rest-	Determinants	
Periodic Test-	Differentiation	
renoute rest-	Application of derivatives	
Half Yearly Exam Ch- 1 to 8 and Ch-10		
Term 2 (Annual Exam)		
	Time based data	
Periodic Test-	Perpetuity, Sinking Funds and EMI	
	Returns, Growth and Depreciation	
Periodic Test-	4 Probability	
Annual Exam		

SUBJECT: COMPUTER SCIENCE (083)

Prescribed	1. Computer Science with Python by Sumita Arora (Dhanpat Rai & Co.)
Books:	2. Computer Science with Python by Preeti Arora (Sultan Chand)
Month	Lesson/Chapter
	Unit I. Programming and Computational Thinking-2 (40
	Marks)Ch. 1 Python Revision Tour-I
April	Tokens, Simple Input and Output, Expressions, Flow of Control (if, ifelse, ifelif,
	Nested if), Looping Statements, jump statements, Nested Loops
	Ch. 2 Python Revision Tour-II
	String handling, Lists in Python, Tuples in Python, Dictionaries in Python
	Ch. 3 Working with Functions
Mari	Introduction, Calling/Invoking/Using a Function, Types of Functions, Flow of execution
May	in a Function Call, Arguments and Parameters
	Ch. 4 Using Python Libraries
l	What is Library, Importing Modules in a Python program, Using Standard
June	Libraries, Creating aPython Library
	Ch. 5 File Handling
	Basic File input/output operation
	Ch. 9 Data Structures: Stack & Queue using Lists
July	Elementary Data Representation
	Linear Lists Arrays, Stack, Queue, Linked Lists, Trees
	Ch. 9 Data Structures: Stack & Queue using Lists
	Operation on Data Structures, Stack (Implementation & Applications), Queue
August	(Implementation, Variations & Applications)
September	REVISION + Half Yearly Examination

	Cl. 42 84 C	OLCOLD STATE		
	_	QL SQL Revision Tour		
	Relational Data Model, Accessing Database in MySQL, Creating Tables, Inserting			
October	Data, SimpleQueries through Select command			
	Ch.13 More on SQL			
	Order by clause, Aggregate Functions, Types of SQL Functions, Grouping Result			
	Ch.15 Interface Python with MySQL			
	Connecting to MySQL from Python			
	Ch.10 Computer Networks-I			
Newspaper	Introduction, Types, Network Devices/Hardware, Internet of Things			
November	Ch.11 Computer Networks-II			
	Modulation Techniques, Network Security, Introduction to Web Services, E-Commerce			
December	Revision			
	Syllabus for Term Exams and Periodic Test			
Periodic Test 1		Chapter 1 to 4		
Periodic Test 2		Chapter 5 to 9		
Term 1		Chapter 1 to 9		
Periodic Test 3		Chapter 12, 13, 15		
Pre-Board		Complete Syllabus as per CBSE Pattern		

SUBJECT: INFORMATICS PRACTICES (065)

	SIMPLIES TRACTICES (003)		
Prescribed	1. Informatics Practices by Sumita Arora (Dhanpat Rai & Co.)		
Books:	2. Informatics Practices by Preeti Arora (Sultan Chand & Co.)		
Month	Chapter/Topics		
	Unit-1: (Data Handling using Pandas -I)		
April	Introduction to Python libraries- Pandas, Matplotlib. Data structures in Pandas - Series		
Аріп	and Data Frames.		
May	Importing/Exporting Data between CSV files and Data Frames.		
	Data handling using Pandas – II		
June	Descriptive Statistics: max, min, count, sum, mean, median, mode, quartile, Standard		
Julic	deviation, variance. Data Frame operations, Handling missing values.		
	Data Visualization Purpose of plotting; drawing and saving following types of plots using		
	Matplotlib – line plot, bar graph, histogram, pie chart, frequency polygon, boxplot an		
July	scatter plot. Customizing plots: color, style (dashed, dotted), width; adding		
	label, title, and legend in plots.		
	Unit 2: Database Query using SQL		
	Math functions, Text functions, Date Functions, Aggregate Functions, Querying,		
August	Operations on Relations, Importing/Exporting Data between MySQL database and		
	Pandas. Operations on Relations.		
September	Half Yearly Exam		
October	Unit 3: Introduction to Computer Networks		
November	UNIT 4: Societal Impacts		
	Revision, Project Work		
December	Revision + Pre-Board 1		
January	Revision + Pre-Board 2		
	Syllabus for Term Exams and Periodic Test		
	TERM-1		
	PT-1: Data Handling- Python Pandas		
Periodio	Test PT-2: Plotting with Pyplot		
	PT-3: Introduction to Computer Networks		
Half Ye	arly Unit-1 and Unit-2		
Pre-Boa			
	nce) Syllahus 2023-2024 Page 9 of 1		

SUBJECT: ECONOMICS (030)

Prescribed	1)	NCERT
Books	,	
Month	Total No. of periods	Lesson/Chapter
		Introductory Macroeconomics:
		Circular Flow of Income
April		Basic concepts of Macroeconomics
Дріп		Indian Economic Development:
		India at the eve of independence
		Indian Economy (1950-1990)
		Introductory Macroeconomics:
May		National Income & Related aggregates
		Indian Economic Development:
		ContinueIndian Economy (1950-1990)
		Introductory Macroeconomics:
June		Measurement of National Income
		Indian Economic Development:
		Economic Reforms since 1991
		Introductory Macroeconomics:
		Money & Banking
July		Indian Economic Development:
		Human capital formation
		Rural development
		Introductory Macroeconomics:
August		Determination of Income and Employment
Ü		Indian Economic Development:
		Employment
September		Revision +Half Yearly Exam
		Introductory Macroeconomics:
October		Govt. Budget & the Economy
		Balance of Payment
		Indian Economic Development:
November		Environment & Sustainable development
		Development experience of India
December		Revision
January		Revision
February		Revision + Annual Exam
March		
	•	SYLLABUS FOR TERM EXAMS AND PERIODIC TEST
		Introductory Macroeconomics:
		Circular Flow of Income
Periodic '	Test1	Basic Concepts of Macroeconomics
		Indian Economic Development:
		India at the eve of independence
		Introductory Macroeconomics:
		Measurement of National Income
Periodic Test2		Money and Banking
		Determination of Income and Employment
		Indian Economic Development:
		Indian Economy (1950-1990)
		Economic Reforms since 1991
		Human capital formation

Half Yearly	Topics according to the syllabus of April to August
	Introductory Macroeconomics:
	Aggregate Demand & Related Concepts
	Govt. Budget & the Economy
Periodic Test3	Indian Economic Development:
	Employment
	Environment & Sustainable development
	Development experience of India
Pre Board	Complete syllabus

SUBJECT: PHYSICAL EDUCATION (048)

Prescribed	1)	Saras NCERT Test book
Books 2)		Full Marks, Physical Education (Dr. DS Yadav)
Month	Total No. of periods	Lesson/Chapter
April		Unit I: Management of Sporting Events
May		Unit II: Children and Women in Sports
June		Unit III: Yoga as Preventive measure for Lifestyle Disease Unit IV: Physical Education and Sports for (CWSN)
July		Unit V: Sports and Nutrition
August		Unit VI: Test and Measurement in sports Unit VII: Physiology and Injuries in Sports
September		Offic vii. Physiology and injuries in sports
October		Unit VIII : Biomechanics and Sports Unit IX : Psychology and sports
November		Unit X: Training in Sports
December		Revision and Pre Board
January		Pre Board 2 & Final Practical
February		Preparation leave
March		Annual Exam
		Syllabus for Term Exams and Monthly Test
		Term-1
Periodic ⁻	Test-1	Unit I: Management of Sporting Events Unit II: Children and Women in Sports
Periodic ⁻	Test-2	Unit III: Yoga as Preventive measure for Lifestyle Disease Unit IV: Physical Education and Sports for (CWSN) Unit V: Sports and Nutrition
Periodic T	est3	Unit VI: Test and Measurement in sports Unit VII: Physiology and Injuries in Sports
Periodic Test-4		Unit VIII : Biomechanics and Sports Unit IX : Psychology and sports Unit X : Training in Sports
Pre Board		December 2023 Complete syllabus
Pre Boa	rd 2	January 2024 Complete Syllabus
Final Ex	kam	March 2024 Complete Syllabus

SUBJECT: PAINTING (049)

Prescribed Books:		
Month		Topics/Lessons
April	4	UNIT 1 -Pal school -Western Indian painting or Jain school -Central Indian painting PT 1 EXAM
May	3	UNIT 2 -Main features of Rajasthani school -Study of following Rajasthani paintings -Maru Ragini -Chaughan Players -Krishna on swing -Radha bani thani -Bharat meets Rama at Chitrakut
June	2	UNIT 3 -The Pahari school -Origin and development -Sub schools-Basohli,Guler,Kangra,Chamba,Garhwal -Study of following Pahari paintings -Krishna with Gopies -,Nand Yasoda and Krishna with Kinsman going to Vrindavan. -Nature study with watercolour.(practical) -Still life with pencil shading (practical)
July	4	UNIT 4 -The Mughal school -Origin and development -Main features of Mughal school -Study of following paintings:- -Krishna lifting mount Govardhan - Kabir and Raidas -Marriage procession of Dara Shukoh -Falcon on a Bird Rest PT 2 EXAM
August	4	UNIT 5 -The Deccan school -Origin and development -Main features of Deccan school -Study of following paintings:Hazrat Nizamuddin Auilya and Amir Khusro -Chand Bibi Playing Polo.
September		TERM 1 EXAM
October	3	UNIT 6 -The Bengal school of painting and the modern tends of Indian artEvolution of the Indian FlagOrigin and development of Bengal schoolMain features of Bengal schoolContribution of Indian artists in the struggle for-National freedom movement.

		Ct. d. of following a sinking as		
		-Study of following paintings:-		
		-Journeys end		
		-Shiva and Sati		
		-Radhika		
		-Meghdoot		
		-The modern trends of Indian art, An introduction, study of paintings-(Rama vanquishing the pride of ocean, mother and child, haldi grinders, Mother		
NOVEMBER	3	Teresa)		
		PT 3 EXAM		
		-Graphics(children ,devi, of walls, man, woman and tree,		
		-sculpture -Triumph of labour, Santhal family, Cries un heard, Ganesha		
December	3			
January		PT 4 EXAM		
February				
March				
	Syllabus for Term and Periodic Test			
		Term 1 (Half Yearly Exam)		
Periodic Test-1		UNIT 1		
Periodic Test-2		UNIT 2,3,4		
Half Yearly Exam		UNIT 1,2,3,4		
Term 2 (Annual Exam)				
Periodic Test-3		UNIT 5,6		
Periodic Test-4		GRAPHICS,SCULPTURE		
Annual Exam				

SUBJECT: HVM (034)

Prescribed Books:	1)	RAAG PARICHAY- PART 1& PART 2
Month	Total No. of periods	Lesson/Chapter
April		Theory – Definitions Alankar, Aalap, Taan, Meend, Gamak Practical – Rag Bhairav Drut khayal with few taans Taal – Jhaptaal with thah dugun & Chaugun
May		Theory — Detail study of the following Sangeet Ratnakar Practical — Rag Bhairav continue Taal — Rupak Taal with thah dugun & chaugun
June		Theory - Historical development of time theory of ragas Practical – Rag Bageshri Drut khayal with few taans Taal – Dhamar taal thah with dugun & Chaugun

July		Theory –	
		Critical study and writing in notation the composition of the prescribed	
		Ragas .Rag - Bhairav Rag Bageshri	
		Practical –	
		Recognise the Ragas from phrases of swaras and elaborating them.	
August		Revision of both the Ragas	
August		Taal with hand movements.	
September		Term —1	
		Theory –	
October		Definitions - Gram, Murchana, Kan, Khatka, Murki,	
Octobel		Practical –	
		Rag Malkauns, Drut khayal with few taans	
		Theory –	
November		Detail study of Sangeet parijat Knowledge of tuning of the Tanpura	
November		Practical –	
		Rag Malkauns Vilambit khayal	
		Theory –	
December		Life sketch of Ustaad Bade Ghulam Ali khan Faiyaz Khan	
December		Practical –	
		Notation, Rag recognition	
la.aa.a.		Theory –	
January		Life sketch of pt.Krishna Rao Shankar pandit Notation system,	
February		Practical — Revision	
March		Term 2	
Preodic T	est 1	Definitions, Raag Bhairav detail description	
Periodic T	est-2	Definitions, Taal Jhaaptaal, Sangeet Ratnakar,	
A ativiti	00	1) Assignment	
Activiti	es	2) —	
Half Vaarly		Definitions - All, Sangeet Ratnakar, Detail description of both the Ragas,& Taal	
Half Yearly Exam		description with hand movements	
	TERM-2 (Annual)		
Periodic Test-3			
Periodic T	est-4	_	
A at: ::t:	00	1) Assignment	
Activiti	es	2) —	
Annual E	xam	-	

