

SARALA BIRLA PUBLIC SCHOOL, Ranchi
Syllabus 2017-2018

Name : _____ UID: _____ Std: XII _____

PHYSICS(042)

Prescribed book:-	NCERT Text Book(part 1 & part 2)
	NCERT EXEMPLER
	Physics practical Book – Laxmi publication.

MONTH	NO. OF PERIOD	TOPIC:-
APRIL	20	Unit- Electrostatics: - chapter 1 – electric charge and fields. Chapter 2 – potential and capacitance.
MAY	20	Unit – current electricity: - chapter 3- current electricity.
JUNE	22	Unit- Magnetic effect of current and Magnetism:- chapter 4- Moving charges and Magnetism , chapter 5- Magnetism and Matter.
JULY	22	Unit - Electromagnetic Induction and Alternating current: - chapter 6 – Electromagnetic Induction, chapter 7- Alternating current, chapter 8 – Electromagnetic waves.
AUGUST	22	Unit- Optics :- chapter 9 –Ray optics and optical instrument, chapter 10- wave optics

SEPTEMBER	18	Revision + Half yearly Exam.
OCTOBER	16	Unit- Dual Nature of radiation and matter:- chapter 11- Dual Nature of radiations and matter , Unit – Atoms and Nuclei:- chapter 12- Atoms, chapter 13 – Nuclei.
NOVEMBER	18	Unit- Electronic Devices :- chapter 14- Semiconductor , electronic Devices, Unit- Communication system:- chapters 15- Communication System.
DECEMBER	20	Pre –Board – 1 / Revision.
JANUARY	19	Pre –Board.
FEBRUARY		Revision + Annual Exam (Practical Exam)
MARCH		Final Exam.

TERM :1

Periodic test	1 st Periodic test – Electrostatics.
	2 nd Periodic test – (a) Current Electricity (b) Magnetic Effect of current and Magnetism.

TERM :2

	3 rd Periodic test- (a) Optics (b) Dual Nature of matter and Radiation.
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Chemistry (043)

Prescribed Books	1.	NCERT Text Book (Part 1 + Part 2)
	2.	Chemistry Practicals – Laxmi Publication(Lab Book)

Month	Total Working Days	Lesson/Chapter
April	20	1. Solid state 2. Solution
May	22	3. Electrochemistry 4. Chemical kinetics
June	14	5. Surface chemistry 9. Coordination compounds
July	21	8. d- & f- block elements 7. P- block elements
August	21	7 p- block elements 6. General principles & processes of Isolation of elements. 10. HALOALKANES & HALOARENES
September	Revision +Half Yearly Exam	
October	16	11. Alcohols, phenols & ethers 12. Aldehydes, ketones & carboxylic acids
November	18	13. Organic compounds containing nitrogen. 14. Biomolecules. 15. Polymers 16. Chemistry in everyday life

December	16	Pre board – 1/ Revision
January	20	Pre board – 2/Revision/ Practical Exam.(Board)
February	Practical Exam (Board)	
March	21	Final exam (board)

Periodic Test (Term-1)

Periodic Test-1 08.05.2017	Chapter-1 Solid State Chapter-2 Solution
Periodic Test-2 14.08.2017	Chapter-3 Electrochemistry Chapter-4 Chemical Kinetics

Term-2

Periodic Test-3 20.11.2017	Chapter-10 Haloalkanes and Haloarenes Chapter- 11 Alcohols, phenols & ethers Chapter-12 Aldehydes, ketones & carboxylic acids Chapter-13 Organic compounds containing nitrogen.
Half – Yearly Exam	Chapter-1 Solid state Chapter-2 Solution Chapter-3 Electrochemistry Chapter-4 Chemical Kinetics Chapter-5 Surface Chemistry Chapter-6 General principles & processes of Isolation of elements Chapter-7 P- block elements Chapter-8 d -& f- block elements Chapter-9 Coordination compounds

Final Exam/Pre-Board	Complete Syllabus
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BIOLOGY (044)

Prescribed Books:	1)	A Textbook of Biology-NCERT
	2)	Pradeep's Textbook of Biology
	3)	Biology Practical-Laxmi Publication
Month	Total No. of periods	Lesson/Chapter
April		Reproduction in organisms, Sexual reproduction in flowering plants.
May		Sexual reproduction in flowering plants ,Human reproduction
June		Reproductive health, Heredity and variation
July		Molecular basis of Inheritance, Evolution
August		Biotechnology-Principles , Processes and applications
September	Revision + Half Yearly Exam	
October		Biology and Human Welfare
November		Ecology and Environment
December		Revision + Pre Board
January		Revision + Pre Board

Syllabus for Term Exams and Periodic Test

TERM-1

Periodic Test

- 1) Reproduction in organisms.
- 2) Biotechnology -Principles and Processes.

TERM-2

Periodic Test

- 1) Microbes in Human Welfare
- 2) Organisms and Population and their interactions.

ENTREPRENEURSHIP(066)

Prescribed Books	1	NCERT
	2	Entrepreneurship by Poonam Gandhi-VK Publication

Month	Total No. of Periods	Lesson/Chapter
April	20	Entrepreneurial Opportunity
May	9	Enterprise Planning
June	14	Enterprise Marketing
July	21	Enterprise Marketing(Contd..)
August	21	Enterprise Growth Strategies
September	18	Revision + Half Yearly
October	16	Business Arithmetic and Resource Mobilization
November	21	Revision
December	16	Revision +Pre-Board 1
January		Revision +Pre-Board 2

SYLLABUS FOR TERM EXAMS AND PERIODIC TEST

TERM 1		
Periodic Test 1	12/06/2017	Entrepreneurial Opportunity and Enterprise Planning
Periodic Test 2	14/08/2017	Enterprise Marketing and Enterprise Growth Strategies
HALF-YEARLY		Till Enterprise Growth Strategies
TERM 2		
Periodic Test -3	20/11/2017	Business Arithmetic and Resource Mobilization
PRE-BOARD		Full Course

English Core (301)

Prescribed books	1.	Flamingo(English Textbook)- NCERT
	2	Vistas(Supplementary Reader)- NCERT
	3	Novel- The Invisible Man (Unabridged novel by H.G. Wells)- NCERT
MONTHS	Total no. Of periods	LESSON/ CHAPTER
APRIL	20	FLAMINGO- The Last Lesson; My Mother at Sixty-Six; VISTAS-The Tiger King Notice Writing , Ads. and Posters
MAY	9	FLAMINGO- The Lost Spring; An Elementary School in a Slum

JUNE	14	FLAMINGO- Indigo; Deep Water Formal & Informal Invitation Article writing
JULY	21	VISTAS- On the Face of It NOVEL (The Invisible Man)Ch.-1 -14 Official & Business Letters, Letter for Job Application and Bio-Data
AUGUST	21	FLAMINGO- Keeping Quiet ; Going Places VISTAS –The Enemy; Should Wizard Hit Mommy Note- Making & Summary Writing
SEPTEMBER	18	Revision+ Half-Yearly Exams-portion taught (June to Aug.)
OCTOBER	16	FLAMINGO- The Rattrap; A Thing of Beauty VISTAS - Evans Tries An O- Level
NOVEMBER	21	FLAMINGO- Aunt Jennifer’s Tigers VISTAS- Memories of Childhood Speech Writing, Debate writing Report Writing Novel(The Invisible Man)- Ch. 15 to 28
DECEMBER	16	Revision
JANUARY	20	Revision

Syllabus for Term Exams and periodic test

Term 1

PERIODIC TEST

Unseen Passage

17.04.2017	Notice , Advertisement The Last Lesson, My Mother at Sixty- Six
PERIODIC TEST 24.07.2017	Unseen Passage Article, Invitation The Lost Spring; An Elementary School in a Slum; On the Face of It
Term 2	
PERIODIC TEST 30.10.2017	Unseen Passage Official & Business Letters, Letter for Job Application and Bio-Data Keeping Quiet ; Going Places; The Enemy;
SA1	PORTION TAUGHT FROM APRIL TO AUGUST Weightage of Marks: READING: 30 MARKS WRITING: 30 MARKS TEXTUAL QUESTIONS(TEXTBOOK AND SUPPLEMENTARY READER) + LONG READING REXT- NOVEL : 40 MARKS
SA2	COMPLETE SYLLABUS Weightage of Marks: READING: 30 MARKS WRITING: 30 MARKS TEXTUAL QUESTIONS(TEXTBOOK AND SUPPLEMENTARY READER) + LONG READING REXT- NOVEL : 40 MARKS

PHE (048)

Prescribed Books	1.	CBSE Text Book PHYSICAL EDUCATION AND HEALTH – Dr. A K SRIVASTAVA&Dr. N K GAUR
	2.	CBSE Text Book Intr. To PHYSICAL AND HEALTH EDUCATION – V.D SHARMA & VIRENDRA SINGH

Month	Total Working Days	UNIT-1 & 2
April	20	UNIT-1:- Planning in sports , Meaning & Objectives of planning , Various committees & its responsibilities , Tournament Knock out & combination. Procedure to draw fixture. UNIT-1&2:- Intramural and extramural ,Specific sports program. UNIT-2:- Yoga and Lifestyle
May	22	UNIT-3:- Sports and Nutrition , Balance diet and nutrition , Nutritive and non nutritive competition of diet , Eating disorders – Anorexia and Bulemia. Effects of diet on performance ,Eating for weight control , Sports nutrition.
June	14	UNIT – 4:- Concept of correct posture ,Advantages of correct posture. Causes of bad postures , Common postural deformities , Physical activities as corrective measures

		<p>UNIT-5:- CHILDREN AND SPORTS</p> <p>Motor development in children ,Factors affecting motor development.</p> <p>Physical & physiological benefits of exercises ,Advantages & disadvantages of weight training , Activities and quality of life.</p>
July	21	<p>UNIT-6:- WOMEN AND SPORTS</p> <p>Sports participation of women in India, Special consideration , Female athletes triad , Psychological aspects of women athletes , Sociological aspects of sports participation , Ideology.</p> <p>UNIT-7:- TEST & MEASUREMENT</p> <p>Measurement of muscular strength , Motor fitness test – AAPHER</p> <p>Measurement of cardio vascular fitness , Measurement of flexibility</p> <p>Rikli and jones- Senior citizen fitness test.</p>
August	21	<p>UNIT 8 :- PHYSIOLOGY AND SPORTS</p> <p>Gender differences in physical &physiological ,Physiological factors determining component , Effect of exercise on cardio vascular system , Effect of exercise on respiratory system , Effect of exercise on muscular system.</p> <p>Physiological changes due to aging ,Role of physical activity.</p> <p>UNIT-9:- SPORTS MEDICINE</p> <p>Concept and Definition ,Aims and scope of</p>

		sports medicine , Impact of surfaces and environment on athletes , SPORTS INJURIES; Causes and prevention. Management of injuries.
September		Revision +Half Yearly Exam
October	16	<p>UNIT-10:- BIOMECHANICS AND SPORTS Projectile and factors affecting projectile ,Angular and linear movement. Introduction to work, power and energy. PSYCHOLOGY AND SPORTS Friction., Mechanical analysis of walking and running.</p> <p>UNIT-11:-Understanding stress, anxiety and its management. Coping strategies ,Personality, its dimension and types: Role of sports in personality development , Motivation, its type and technique. Self esteem and body image ,Psychological benefits of exercise.</p>
November	18	<p>UNIT-12:- Training in sports. Strength- Definition, types & methods of improving strength- Isometric, Isotoni& Isokinetic Endurance- Definition, types & methods of develop endurance- Continuous training, Interval training & fartlek training , Speed , Flexibility Co-Ordinative abilities- definition & types.</p>

December	16	Pre board – 1/ Revision
January	20	Pre board – 2/Revision/ Practical Exam.(Board)
February	Practical Exam (Board)	
March	21	Final exam (board)

Periodic Test(Term-1)

Periodic Test-1	UNIT-I:-Planning in Sports UNIT-II:-Yoga and Lifestyle UNIT-III:-Sports & Nutrition	
Periodic Test-2	UNIT-IV:-Postures UNIT-V:-Children & Sports UNIT-VI:-Women & Sports UNIT-VII:-Test & Measurement in Sports	
	TERM-2	
Periodic Test-3	UNIT-VIII:-Physiology & Sports UNIT-IX:-Sports Medicine UNIT-X:-Biomechanics & Sports UNIT-XI:-Psychology & Sports UNIT-XII:-Training in Sports	
Half – Yearly Exam	UNIT-I:-Planning in Sports UNIT-II:-Yoga and Lifestyle UNIT-III:-Sports & Nutrition. UNIT-IV:-Postures UNIT-V:-Children & Sports. UNIT-VI:-Women & Sports. UNIT-VII:-Test & Measurement in Sports. UNIT-VIII:-Physiology in Sports.	
Final Exam/Pre-Board	Complete Syllabus	

HINDUSTANI MUSIC VOCAL

APRIL	THEORY- Definition of the following - Alankar, varna, kan, Meend, khatka, Murki, Gamak, Murchana, Alaap, Taan, PRACTICAL - Rag Malkauns Drut Khayal
MAY	THEORY - Definitions Continue PRACTICAL - Rag Malkauns Vilambit Khayal
JUNE	THEORY - Classification of Ragas, Time Theory of ragas PRACTICAL - Rag Bhimpalasi
JULY	THEORY - Detail study of the Following - Sangeet Ratnakar, Sangeet Parijat. PRACTICAL - Rag Bhimpalasi Continue
AUGUST	THEORY - Description of Ragas, Writing in notation of the Ragas PRACTICAL - Recitation of Thekas - Jhaptal, Rupak
SEPTEMBER	REVISION
OCTOBER	THEORY - Writing in tala notation, Thah and Dugun of Prescribed Talas PRACTICAL - Rag Bageshri
NOVEMBER	THEORY - Contribution of Musicians. PRACTICAL - Recitation of Thekas - Tilwara, Dhamar
DECEMBER	THEORY - Contribution of Musicians. PRACTICAL - Rag Bhairav Drut Khayal
JANUARY	THEORY - Revision PRACTICAL - Dhamar, Tarana
FEBRUARY	THEORY - Revision PRACTICAL - Revision

PAINTING (Code No. 049)

Units		Months
1.	The Rajsthani and Pahari Schools of Miniature Painting	April-May
2.	The Mughal and Deccan Schools of Miniature Painting	June-July
3.	The Indian National Flag and the Bengal School of Painting	August-Sept
4.	The Modern Trends in Indian Art	October-November

PRACTICAL

Units	
1.	Nature and Object Study
2.	Painting Composition
3.	Portfolio Assessment

MATHEMATICS(041)

Prescribed Books:	1)	NCERT
	2)	NCERT Exemplar
	3)	R.S. Aggarwal

Month	Total No. of periods	Lesson/Chapter
April		Ch.-1 Relations and Functions
May		Ch.-2 Inverse Trigonometric Functions, Ch.-5 Continuity and Differentiability

June		Ch.-6 Application of Derivatives
July		Ch.-3 Matrices, Ch.-4 Determinants
August		Ch.-7 Integrals, Ch.-8 Application of Integrals
September	Revision + Half Yearly Exam	
October		Ch.-9 Differential Equations, Ch.-10 Vector Algebra, Ch.-11 Three Dimensional Geometry
November		Ch.-12 Linear Programming, Ch.-13 Probability
December		Pre-board Revision
January		Pre-board/ Doubt Clearance
February	Revision + Annual Exam	
March		
Syllabus for Term Exams and Monday Test		
TERM-1		
Monday Test 1. 24/04/17	1) Ch.-1 Relations and Functions	
Monday Test 2. 17/07/17	2) Ch.-2 Inverse Trigonometric Functions, Ch.-5 Continuity and Differentiability	
Term-1	Ch.-1 to Ch.-8	
TERM-2		
Monday Test 3. 30/10/17	3) Ch.-6 Application of Derivatives, Ch.-3 Matrices, Ch.-4 Determinants	
Pre-board	Ch.-1 to Ch.-13 (Full Syllabus)	

Informatics Practices (065)

Prescribed Books	1	Informatics Practices by Sumita Arora
	2	Informatics Practices

Month	Total No. of Periods	Lesson/Chapter
April	20	Computer Networking
May	9	Open Source Concepts , Java Programming – 1
June	14	Java Programming -2
July	21	Java Programming – 3 & 4, Concepts of Inheritance
August	21	Database connectivity, HTML
September	18	TERM-1 & IT tools
October	16	XML & HTML advance
November	21	Revision
December	16	Revision +Pre-Board 1
January		Revision +Pre-Board 2

SYLLABUS FOR TERM EXAMS AND PERIODIC TEST

TERM 1		
Periodic Test 1	Computer Networking	Open Source Concepts
Periodic Test 2	Java Programming – 1	Java Programming – 2
HALF-YEARLY	Computer Networking, Open Source Concepts, Java Programming -1,2,3	

TERM 2

Periodic Test -3	HTML & XML
PRE-BOARD	Full Course

Computer Science (083)

Prescribed Books	1	Computer Science with C++ by Sumita Arora
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Month	Total No. of Periods	Lesson/Chapter
April	20	Revision Tour of Class XI, OOP, Class and Object
May	9	Constructor and Destructor Inheritance
June	14	Data File Handling <ul style="list-style-type: none">• Text File• Binary File
July	21	Data Structures <ul style="list-style-type: none">• Arrays(1D and 2D)
August	21	<ul style="list-style-type: none">• Stack• Queue
September	18	Revision and Half Yearly Exam
October	16	Database Concepts My SQL/SQL
November	21	Boolean Algebra
December	16	Networking and Open Source Software
January		Revision +Pre-Board

SYLLABUS FOR TERM EXAMS AND PERIODIC TEST

TERM 1	
Periodic Test 1	Till Inheritance
Periodic Test 2	Data File Handling, Data Structures
HALF-YEARLY	Portion till August
TERM 2	
Periodic Test -3	Database, SQL, Boolean Algebra
PRE-BOARD	Full Syllabus