



GRAIN CHAMBER PUBLIC SCHOOL

Affiliated to C.B.S.E., New Delhi, up to 10+2 level

NEW MANDI, MUZAFFARNAGAR-251 001 (U.P.)

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**SYLLABUS
FOR THE SESSION
2018-2019**

Class - XII

Subject	I Periodic Test	II Periodic Test	Half Yearly Exam.	III Periodic Test	After III Periodic
English Core	Wr. Skills : Notice, Letter to the Editor, Letter of Complaints, Article Flamingo - L. 1: The Last Lesson, L. 2 : Lost spring, P1 My Mother at 66. Vistas - L. 1 : The Tiger King Novel - Ch. : 1-6 Language Lab - Module - 7 Ch. - 1 to 4	Wr. Skills : Ads, Poster drafting, Making Enquiries Flamingo - P2, 3; L. - 3, 4 Vistas - L. 2, 3 Novel - Ch. : 7-15 Language Lab - Module 7 Ch. - 5 to 9	Wr. Skills : Informal Invitations, Note Making, Placing & Supplying orders, speech, Debate Unseen Passage Flamingo - P4 Vistas - L. 4 Novel - Ch. : 16-18 Including Previous Syllabus of Pd. I & Pd. II Language Lab - Module 7 Ch. - 10 to 15	Wr. Skills : Asking Information, Poster drafting, Report Application for job Flamingo - P. 5, L. - 5 Vistas - L. - 5 Novel - Ch. : 19-22 Language Lab - Module 7 Ch. - 16 to 20	Wr. Skills : Letter to school authorities Flamingo - L. - 8 Vistas - L. - 6 Novel - Ch. : 23-28 Annual syllabus includes entire syllabus detailed for Pd. I, II, Half yearly & Pd. III Language Lab - Module 7 Ch. - 21 to 22
Chemistry	L. - 1, 2 Practical - Salt Analysis Basic radical $\rightarrow \text{NH}_4^+, \text{Pb}^{2+}$ Acidic Radical $\text{CO}_3^{2-}, \text{Cl}^-$	L. - 10, 11, 12, 13 Practicals - Basic Radical - Cu^{2+} , Al^{3+} , Fe^{3+} , Zn^{2+} , Ni^{2+} , Ca^{2+} Acidic Radical - SO_3^{2-} , NO_3^- , SO_4^{2-}	L. - 3, 4, 5, 15, 16 (Including Previous Syllabus of I Pd & II Pd.) Practical - 1. Salt Analysis 2. Functional gp test of organic compounds (Aldehyde, Alcohol)	L. - 6, 7 Practical - 1. Salt Analysis 2. Functional gp test of organic compounds (Amine, Ketone) Carbonylic acid	L. - 8, 9, 14 (Including Previous Syllabus) Practical - Titration

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Physics	Unit - 1 : Electrostatics Experiments - 1. Verification of ohm's law 2. Minimum deviation by Prism	Unit - 2 : Current Electricity Experiments - 3. To find Unknown resistance by meter bridge. 4. Resistance in series / parallel by meter bridge.	Unit - 1, 2 (Previous Syllabus) Unit - 9 : Electronic Devices Unit - 10 : Communication system Exp. - 1, 2, 3, 4 Exp. 5 : I-V Characteristics of PN Junction Diode Exp. 6 : I-V Characteristics of Zenner Diode. Exp. 7 : Common Emitter Characteristics of npn transistor. Activities - 1 and 2 GpA	Unit - 3 Magnetic Effect of Current and Magnetism Exp. 8 : Half deflection method and figure of merit. Exp. 9 : Conversion of galvanometer into Ammeter Exp. Conversion of galvanometer into voltmeter.	Unit - 1 to 10 Complete Syllabus Experiment : 1 to 15
Biology (044)	Ch. 1 : Reproduction in Organisms Ch. 2 : Sexual Reproduction in flowering plants. Ch. 3 : Human Reproduction Lab. Practicals/Spotting Activities : Exp. 1 : Temporary mount of pollen germination. Exp. 2 : Temporary mount of onion root to study stages of mitosis. 1. Floral	Ch. 4 : Reproductive health Ch. 5 : Principles of Inheritance & variations. Ch. 6 : Molecular basis of Inheritance. Lab. Practicals/Spotting Activities : Exp. 3 : Study of pH, clarity & presence of living organisms in two water samples. 3. Exercise on Emasculation tagging & bagging.	Ch. 7 : Evolution Ch. 8 : Human Health & Diseases Ch. 9 : Strategies for Enhancement of food production. Ch. 10 : Microbes in Human Welfare. Ch. 11 : Biotechnology Principles & Process. Lab. Practicals/Spotting Activities : 6 : Study of disease causing organisms (Plasmodium, Entamoeba, Ascaris) through specimens/slides. 7. Study of Morphological	Ch. 12 : Biotechnology and its applications. Ch. 13 : Organisms and Population Ch. 14 : Ecosystem Ch. 15 : Biodiversity & Conservation Ch. 16 : Environmental Issues Lab. Practicals/Spotting Activities : Exp. 4 : Study of plant population density. Exp. 5 : Study of	All syllabus included in Biology Theory. Lab. Practicals : Spottings All Experiments, Spottings & Demonstrations as prescribed by CBSE Board + Investigatory Project File.

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	characteristics of wind and insect pollinated flowers.	4. Analysis of pedigree charts of genetic disorders (Blood groups) colour blindness, rolling of tongues. 5. Mendelian inheritance using seeds of different	adaptations in two aquatic plants and two aquatic animals. 8. Study of Morphological adaptations in two Xeric plants and two desert animals.	plant population frequency. Exp. 6 : Study of water holding capacity of two soil samples. Exp. 7 : Study of rate of percolation water in two soil samples. Exp. 8 : Study of soil texture. Exp. 9 : Study of suspended particles in air.	
Mathematics	Ch. 1 : Relations and function Ch. 2 : Inverse Trigonometry Ch. 3 : Matrices Ch. 4 : Determinants	Ch. 5 : Continuity and differentiability Ch. 6 : Application of derivatives	Ch. 1, Ch. 2 Ch. 3, Ch. 4 Ch. 5, Ch. 6 Ch. 7	Ch. 8, Ch. 9, Ch. 10	Ch. 1, Ch. 2, Ch. 3 Ch. 4, Ch. 5, Ch. 6 Ch. 7, Ch. 8, Ch. 9, Ch. 10, Ch. 11, Ch. 12 Ch. 13
Computer Science	Ch.- 1, 2, 13	Ch.- 3, 11, 12	Ch. -4, 5, 6 (Including previous syllabus)	Ch.-7, 8, 9	Ch.- 10, 14 (Including previous syllabus)
Phy. Edu.	Unit - 2 Unit - 3 Practical - Athletics track 400 M	Unit - 1 Unit - 4 Practical - AAHPER Administration Test Viva - Asanas,	Unit - 1 Unit - 4 Unit - 5 Unit - 7 Unit - 8 Unit - 9	Unit - 10 Unit - 12 Practical - Viva for Skill game and events	Unit - 06 Unit - 11 Practical - Prescribed norms of CBSE whole course. Practical ground

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		Benefits and contraindication for any two asanas each lifestyle disease.	Practical - Conduct Barrow test, Skill game Senior citizen fitness test, Viva/Field Events		activity, Fitness test, Exercises.
Accountancy	Part - A (Unit I) (1) Financial Statement of Not-for-Profit organisations (2) Fundamentals of Partnership Firm	(3) Change in PSR (4) Admission of New Partner (5) Retirement of Partner	Death of a partner (6) Dissolution of Partnership Firm (Unit-II) (7) Issue of Shares (8) Issue & Redemption of Debentures. (Including Previous Course)	Part B : (1) Financial Statement of Company (2) Financial Analysis (3) Comparative Statements (4) Common Size Statement (5) Accounting ratio	(6) Cash Flow Statement (Including Previous Syllabus)
Economics	Unit I : Introduction Unit II : Consumer's Equilibrium & Demand	Unit III : Producer's Equilibrium & Supply Unit IV : Forms of Market & Price Determination under Perfect Competition with simple application	Unit V : National Income & Related Aggregates Unit VI : Money & Banking (Including Previous course)	Unit VII : Determination of Income & Employment Unit VIII : Government Budget & the Economy	Unit IX : Balance of Payment + Project work (Including previous course)
B. St.	Ch. 1 : Nature & Significance of Management Ch. 2 : Principal of	Ch. 4 : Planning Ch. 5 : Organizing Ch. 6 : Staffing	Ch. 7 : Directing Ch. 8 : Controlling Ch. 9 : Financial Management (including previous course)	Ch. 10 : Financial Management Ch. 12 : Consumer Protection	Ch. 11 : Marketing Management + Project work (Including previous course)
Subject	I Periodic Test	II Periodic Test	Half Yearly Exam.	III Periodic Test	After III Periodic
	Management Ch. 3 : Business Environment				
G. St.	—	—	Unit I & II	—	—
Painting	Unit - I : Rajasthani and Pahadi School of Art Pr. :- 2. Object study 1. Land scape	Unit - II : Mughal and Deccan school of art Pr. :- 2. Object study 1. Composition	Unit - III : Bengali school of art with all previous syllabus Pr. :- 1. Object study 1. Land scape	Unit - IV : Modern trends in Indian art - Paintings. Pr. :- 1. Object study 2. Composition	Unit - IV : Modern Trends in Indian art - Graphics & Sculptures with all previous syllabus
	I Periodic Test	Half Yearly Exam.	III Periodic Test	After III Periodic Test	
Work Experience (Atal Tinkering Lab)	Unit I : Kit Introduction 1. Kit Introduction 2. Basic Design Consideration in robotics 3. Problem Solving LOOP 4. Introduction to Programming 5. Grabber Robot Unit II : Power virus diameter 1. Gradual Turn 2. One Motor Turn 3. Pivot Turn	Including I Periodic Assessment Unit III : Lever and Linkages 1. Working machine over Wheeled Machine 2. Six Legged Robot 3. Four Legged Robot Unit IV : Force, work and Power 1. Mass, Acceleration 2. Torque 3. Work and Power	Unit V : Inverse Square Law 1. Inverse Square Law Unit VI : Heron's Method 1. Heron's Method 2. Process of Square Root	Including II Periodic Assessment Unit VII : Diodes and Transistor 1. Diode Introduction 2. NPN Transistor 3. PNP Transistor Unit VIII : Oscillators 1. Introduction of Oscillators 2. Variable Frequency Oscillators	
	Half Yearly Exam.			Annual	
Health Education	Foot Ball, Basket Ball, Table Tennis, Badminton, Lawn Tennis			Cricket, Volley Ball Athletics, Billiards	

Class: XII

Maximum Marks: 20

Duration: 1Hr.

Subject \ Test	I Pd. Test	II Pd. Test	III Pd. Test
Maths	14/05/2018	30/07/2018	03/11/2018
English	19/05/2018	01/08/2018	05/11/2018
Chemistry/B. St.	21/05/2018	13/08/2018	12/11/2018
P. Ed./Painting/C. Sc.	26/05/2018	20/08/2018	24/11/2018
Biology/Economics	28/05/2018	27/08/2018	26/11/2018
Physics/Accountancy	31/05/2018	01/09/2018	30/11/2018

- Note:**
- (1) Revision Examination from 1st week of December onwards will be scheduled later on for the preparation of Board's Exams. Pre-Board Exam. will be held in Jan.2019.
 - (2) It is compulsory for all the students to appear in all the Test/Exams. No leave including medical leave would be accepted.
 - (3) Date of course completion is one week before the Exam/Test held in the subject.