

SYLLABUS

2018 - 2019

CLASS : XI
(Science)



RUKMINI DEVI
PUBLIC SCHOOL

The school with a difference...

Under the aegis of Seth Pokhar Mal Educational Society

- * Recognized by Directorate of Education, Govt. of NCT, Delhi
- * Affiliated & Accredited to CBSE, MHRD, Govt. of India
- * Affiliation No. 2730165



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Our Vision : Excellence in Education

Our Mission : To strive for the strong foundation of young learners in the age group of 3+ to 17 years which will facilitate them to become active participants in life long learning and earning by integrating both national and international dimensions in the curriculum supported by the state-of-the-art infrastructure.

Our Philosophy :

*"You are a Child of immortality.
Your roots go deep to eternity,
Your reach is unto infinity."*

"A child is not a vessel to be filled but a lamp to be lighted."

Mission Statement (2017 - 2022)

"The school will develop a well-knit system to contribute towards Digital India Programme by digitalizing 40% of its processes by 2018 and 60% by 2022 consequently reducing the paper usage and promoting environmental sustainability. The school will contribute toward the clean India mission by organizing frequent cleanliness drives, spreading awareness about hygiene through street plays and other mass awareness programmes."

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Class: XI

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RUKMINI DEVI PUBLIC SCHOOL
Class XI (Science)

Class : XI

Introduction: This booklet contains the syllabus along with a tentative programme of activities, functions and the school almanac.

Evaluation System:

1. There will be a system of assessments for each subject as per the prescribed syllabus and examination schedule.
 - The Question Papers will follow the blue print provided by CBSE.
 - Each student should have 75% of attendance in each term to be eligible to appear in CTs and Final Exams.
 - Subject wise qualifying minimum percentage – 33%. In a subject involving practical work, a student must obtain 33% marks in the theory and 33% marks in the practical separately in addition to 33% marks in aggregate.
 - It is compulsory for each student to appear in all the tests.
 - Should a student fail to appear for a test / exam (whatever grounds), he / she would have to pay Rs. 500/- per test and compulsorily appear in the only retest / exam of the same. The amount would be deposited to the respective class teacher before the retest.
 - The answer sheets having been checked by the teacher will be sent to the parents for their information and signature / acknowledgment.
 - The answer sheets after being signed by the parents have to be sent to the concerned class teacher the very next day for verification .
 - Any re- totaling / rechecking of answer sheets will not be entertained, once the student receives the answer sheet and leaves the classroom.

2. The following compulsory internal assessment subjects will be awarded grades as per the CBSE guidelines:

- Physical & Health Education
- General Studies

- Work Experience : The student has to opt for any one of the following options

- (a) Instrumental Music (b) Vocal Music (c) Electronics (d) Indian Dance (e) Bharatnatyam & Indian Contemporary Dance (f) Dramatics (g) Applied Art
(h) Textile Designing (I) Craft.

Tentative Schedule of Exam:

June Test*	PT - 1**	CT 1*	PT - 2**	CT 2*	Final Exams*
21.06 2018 to 29.06.2018	23.07.2018 to 20.08.2018	10.09.2018 to 19.09.2018	14.11.2018 o 10.12.2018	26.12.2018 to 15.01.2019	15.02.2019 onwards

Date sheet will be provided a month in advance.

*** M.M. : As per curriculum
Duration : 3 hrs.**

**** M.M. : 20
Duration : 1 hr.**

Subject Code : 301 - English Core		Syllabus: 2018-2019	Class : XI
Prescribed Books:			
1. Book – 1, Hornbill, a Text Book for Class XI (Core Course), NCERT			
2. Book – 2, Snapshot, Supplementary Reader in English for Class XI (Core Course), NCERT			
TEST/EXAM	DURATION	PARTICULARS	
June Test 80	09.04.18 to 25.05.18	Reading Comprehension & Note Making Book 1 : L1- The Portrait of a Lady L2- We are not afraid to die ----- if we can all be together Poetry- A Photograph Book 2 : L1- The Summer of the Beautiful White Horse Writing Skills : Notice Writing, Letter to the Editor and Article Writing Grammar : Integrated grammar exercises	
Test Dates	21.06.18 to 29.06.18	Syllabus Covered from 09.04.18 to 25.05.18 + Workbook	
PT-1 20	02.07.18 to 22.07.18	Reading Comprehension & Note Making Book 1 : L3 - Discovering Tut: The saga continues Poetry - Laburnum Top Writing Skills : Advertisements Grammar : Integrated grammar exercises	
Test Dates	23.07.18	Syllabus Covered from 02.07.18 to 22.07.18 + Workbook	

<p>CT-1</p> <p>Theory ASL</p> <p>80 20</p>	<p>23.07.18 to 09.09.18</p>	<p>Reading Comprehension & Note Making</p> <p>Book 1 : L4- Landscape of the Soul Poetry - The Voice of the Rain</p> <p>Book 2 : L2- The Address L3 - Ranga's Marriage</p> <p>Writing Skills : Report Writing, Application for Job, Speech Writing</p> <p>Grammar : Integrated grammar exercises</p> <p>Assessment for Speaking & Listening (ASL)</p>
<p>Exam Dates</p>	<p>10.09.18 to 19.09.18</p>	<p>Syllabus Covered from 09.04.18 to 09.09.18 + Workbook</p>
<p>PT-2</p> <p>20</p>	<p>20.09.18 to 25.11.18</p>	<p>Reading Comprehension & Note Making</p> <p>Book 1 : L5 - The Ailing Planet : The Green Movement's Role L6 - The Browning Version L7- Adventure Poetry - Childhood</p> <p>Book 2 : L4 - Albert Einstein at School L5 - Mother's Day</p> <p>Writing Skills : Invitations & replies, Business letters</p> <p>Grammar : Integrated grammar exercises</p>
<p>Test Dates</p>	<p>26.11.18</p>	<p>Syllabus Covered from 20.09.18 to 25.11.18 + Workbook</p>

<p>CT-2</p> <p>80</p>	<p>26.11.18 to 25.12.18</p>	<p>Reading Comprehension & Note Making</p> <p>Book 1 : L8 - Silk Road Poetry - Father to Son</p> <p>Book 2 : L6 - The Ghat of the only World L7 - Birth</p> <p>Writing Skills : Posters, Debate</p> <p>Grammar : Integrated grammar exercises</p>
<p>Exam Dates</p>	<p>26.12.18 to 15.01.19</p>	<p>Syllabus Covered from 09.04.18 to 25.12.18 + Workbook</p>
<p>Final Exam</p> <p>Theory ASL</p> <p>80 20</p> <p>15.02.19 onward</p>	<p>16.01.19 to 14.02.19</p>	<p>Reading Comprehension & Note Making</p> <p>Book 2 : L8 - The Tale of Melon City</p> <p>Grammar : Integrated grammar exercises</p> <p>Assessment for Speaking & Listening (ASL)</p> <p>Complete Syllabus covered during the session + Assignments provided + Workbook</p>
<p>Reference books: BBC Compacta (Class 11)</p>		

Subject Code : 041 - Mathematics		Syllabus : 2018-2019	Class : XI
Prescribed Books: Mathematics – A Text book for Class XI (NCERT)			
TEST/EXAM	DURATION	PARTICULARS	
June Test 100	09.04.18 to 25.05.18	Ch 1 : Sets Ch 2 : Relations & Functions Ch 3 : Trigonometric Functions	
Test Dates	21.06.18 to 29.06.18	Syllabus covered from 09.04.18 to 25.05.18 + Workbook	
PT-1 20	02.07.18 to 19.08.18	Ch 4 : Principle of Mathematical Induction Ch 5 : Complex Numbers and Quadratic Equations Ch 6 : Linear Inequalities Ch 7 : Permutations and Combinations	
Test Dates	20.08.18	Syllabus covered from 02.07.18 to 19.08.18 + Workbook	
CT-1 100	20.08.18 to 09.09.18	Ch 8 : Binomial Theorem	
Exam Dates	10.09.18 to 19.09.18	Syllabus Covered from 09.04.18 to 09.09.18 + Workbook	

PT - 2 20	20.09.18 to 09.12.18	Ch 9 : Sequences and Series Ch 10 : Straight Lines Ch 11 : Conic Sections Ch 13 : Limits and Derivatives Ch 14 : Mathematical Reasoning
Test Date	10.12.18	Syllabus covered from 20.09.18 to 09.12.18 + Workbook
CT-2 100	10.12.18 to 25.12.18	Ch 12 : Introduction to Three Dimensional Geometry Ch 15 : Statistics
Test Dates	26.12.18 to 15.01.19	Syllabus covered from 09.04.18 to 25.12.18 + Workbook
Final Exam 100 15.02.19 onward	16.01.19 to 14.02.19	Ch 16 : Probability Complete Syllabus covered during the session + Workbook
Reference books: Mathematics for Class XI - Gautam Kumar, R. D. Sharma, Mathematics by Gupta & Bansal		

Subject Code : 042 - Physics (Theory)**Syllabus: 2018-2019****Class : XI****Prescribed Books :** Physics – A Textbook for Class XI (NCERT)

TEST/EXAM	DURATION	PARTICULARS
June Test 70	09.04.18 to 25.05.18	Ch.1 : Physical World Ch.2 : Units & Measurement Ch.3 : Motion in a Straight Line Ch.4 : Motion in a Plane Ch.5 : Laws of Motion
Test Dates	21.06.18 to 29.06.18	Syllabus Covered from 09.04.18 to 25.05.18 + Workbook
PT-1 20	02.07.18 to 12.08.18	Ch.6 : Work, Energy and Power Ch.7 : System of Particles and Rotational Motion
Test Dates	13.08.18	Syllabus Covered from 02.07.18 to 12.08.18 + Workbook
CT-1 Theory 70 Practical 30	13.08.18 to 09.09.18	Ch.8 : Gravitation Ch.9 : Mechanical Properties of Solids Ch.10 : Mechanical Properties of Fluids
Exam Dates	10.09.18 to 19.09.18	Syllabus Covered from 09.04.18 to 09.09.18 + Workbook

PT-2 20	20.09.18 to 02.12.18	Ch.11 : Thermal Properties of Matter Ch.12 : Thermodynamics
Test Dates	03.12.18	Syllabus Covered from 20.09.18 to 02.12.18 + Workbook
CT-2 70	03.12.18 to 25.12.18	Ch.13 : Kinetic Theory Ch.14 : Oscillation and Waves
Exam Dates	26.12.18 to 15.01.19	Syllabus Covered from 09.4.18 to 25.12.18 + Workbook
Final Term Theory Practical 70 30 15.02.18 onward	16.01.19 to 14.02.19	Ch.15 : Ray Optics Complete Syllabus covered during the session + Assignments provided
Reference books: 1. Together with Physics by Pradeep Publication 2. S.L. Arora (Dhanpat Rai Publications)		

Subject Code : 042 - Physics (Practical)		Syllabus : 2018-2019	Class : XI
Prescribed Books: Physics NCERT			
TEST/EXAM	DURATION	PARTICULARS	
June Test	09.04.18 to 25.05.18	<p>Experiments :</p> <ol style="list-style-type: none"> To measure diameter of a small spherical/cylindrical body using vernier calipers. To measure diameter of given wire using screw gauge. To determine radius of curvature of a curved surface using spherometer To find the weight of given body using the parallelogram law of vectors. Using a simple pendulum plot L-T and L-T² graphs. Hence find the effective length of second's pendulum using appropriate length values. <p>Allocation of the Project.</p>	
CT-1	02.07.18 to 09.09.18	<p>Experiments :</p> <ol style="list-style-type: none"> To study the relationship between force of limiting friction and normal reaction and to find the coefficient of friction between a block and a horizontal surface. To determine Young's modulus of elasticity of the material of a given wire. To find the force constant of a helical spring by plotting a graph between load and extension. To determine Surface tension of water by capillary rise method To determine the coefficient of viscosity of a given viscous liquid by measuring terminal velocity of a given spherical body. <p>Activities (Demonstration) :</p> <ol style="list-style-type: none"> To make a paper scale of given least count. e.g., 0.2 cm, 0.5 cm. To determine mass of a given body using a metre scale by principle of moments. To plot a graph for a given set of data, with proper choice of scales and error bars. To study the conservation of energy of a ball rolling down on an inclined plane (using a double inclined plane). 	

<p style="text-align: center;">30</p> <p>Date Sheet will be provided in advance</p>	-	<p>Syllabus Covered from 09.04.18 to 09.09.18 + Workbook</p>
<p>CT – 2</p>	<p>20.09.18 to 25.12.18</p>	<p>Experiments :</p> <ol style="list-style-type: none"> 13. To study the relation between the length of a given wire and tension for constant frequency using sonometer. 14. To find the value of V for different values of u in case of a concave mirror and to find its focal length. 15. To find the focal length of a convex lens by plotting graphs between u & v or between 1/u and 1/v. 16. To determine angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation. 17. To determining refractive index of a glass slab using a travelling microscope. <p>Activities (Demonstration) :</p> <ol style="list-style-type: none"> 1. To observe and explain the effect of heating on a bi-metallic strip. 2. To Study the effect of detergent on surface tension of water by observing capillary rise. 3. To study the nature and size of the image formed by a (i) convex lens, (ii) concave mirror, on a screen by using a candle and a screen (for different distances of the candle from the lens/mirror). 4. To obtain a lens combination with the specified focal length by using two lenses from the given set of lenses. <p>Submission of the Project.</p>
<p style="text-align: center;">Final Exam</p> <p style="text-align: center;">30</p> <p>Date Sheet will be provided in advance</p>	-	<p>Revision and discussion of practicals covered during the session</p>
<p>Reference Books: Together With, Comprehensive Laboratory Manual for Physics</p> <p>Note : Project guidelines as per CBSE.</p>		

Subject Code : 043 - Chemistry (Theory)		Syllabus: 2018-2019	Class : XI
Prescribed Books: Chemistry – A Textbook for Class XI (NCERT)			
TEST/EXAM	DURATION	PARTICULARS	
June Test 70	09.04.18 to 25.05.18	Ch 1 : Some Basic Concepts of Chemistry Ch 2 : Structure of Atom Ch 3 : Classification of Elements and Periodicity in Properties Ch 8 : Redox Reactions	
Test Dates	21.06.18 to 29.06.18	Syllabus Covered from 09.04.18 to 25.05.18 + Workbook	
PT-1 20	02.07.18 to 29.07.18	Ch 4 : Chemical Bonding and Molecular Structure Ch 5 : States of Matter : Gases and Liquids	
Test Dates	30.07.18	Syllabus Covered from 02.07.18 to 29.07.18 + Workbook	

<p>CT-1</p> <p>Theory Practical</p> <p>70 30</p>	<p>30.07.18 to 09.09.18</p>	<p>Ch 5 : States of Matter : Solids (Continued) Ch 6 : Chemical Thermodynamics Ch 7 : Equilibrium</p>
<p>Exam Dates</p>	<p>10.09.18 to 19.09.18</p>	<p>Syllabus Covered from 09.04.18 to 09.09.18 + Workbook</p>
<p>PT-2</p> <p>20</p>	<p>20.09.18 to 13.11.18</p>	<p>Ch 09 : Hydrogen Ch 10 : s-Block Elements Ch 11 : p-Block Elements [Group 13, 14]</p>
<p>Test Dates</p>	<p>14.11.18</p>	<p>Syllabus Covered from 20.09.18 to 13.11.18 + Workbook</p>

<p>CT-2</p> <p>70</p>	<p>14.11.18 to 25.12.18</p>	<p>Ch 11 : p-Block Elements [Group 15] (continued) Ch 12 : Organic Chemistry - Some Basic Principles and Techniques Ch 13 : Hydrocarbons (Alkanes)</p>
<p>Exam Dates</p>	<p>26.12.18 to 15.01.19</p>	<p>Syllabus Covered from 09.04.18 to 25.12.18 + Workbook</p>
<p>Final Exam</p> <p>Theory Practical</p> <p>70 30</p> <p>15.02.19 onward</p>	<p>16.01.19 to 14.02.19</p>	<p>Ch 13 : Hydrocarbons (Alkenes, Alkynes and Aromatic Compounds) (continued) Ch 14 : Environmental Chemistry</p> <p>Complete Syllabus covered during the session + Workbook</p>
<p>Reference Books: 1. A textbook of Chemistry by Pradeep Publication. 2. Modern ABC 3. G.R. Bathla Publication</p>		

Subject Code : 044 - Biology (Theory)		Syllabus: 2018-2019	Class : XI
Prescribed Books : Biology – A Textbook for Class XI (NCERT)			
TEST/EXAM	DURATION	PARTICULARS	
June Test (70)	09.04.18 to 25.05.18	Unit V – Human Physiology Ch 16 : Digestion and Absorption Ch 17 : Breathing and Exchange of Gases Ch 18 : Body Fluids and Circulation Ch 19 : Excretory Products and their Elimination Ch 20 : Locomotion and Movement	
Test Dates	21.06.18 to 29.06.18	Syllabus Covered from 09.04.18 to 25.05.18 + Workbook	
PT-1 (20)	02.07.18 to 05.08.18	Unit V – Human Physiology Ch 21 : Neural Control and Coordination Ch 22 : Chemical Coordination and Integration Unit IV : Plant Physiology Ch 11 : Transport in Plants Ch 12 : Mineral Nutrition	
Test Dates	06.08.18	Syllabus Covered from 02.07.18 to 05.08.18 + Workbook	

<p>CT-1</p> <p>Theory Practical</p> <p>70 30</p>	<p>06.08.18 to 09.09.18</p>	<p>Unit IV : Plant Physiology</p> <p>Ch 13 : Photosynthesis in Higher Plants</p> <p>Ch 14 : Respiration in Plants</p> <p>Ch 15 : Plant Growth and Development</p>
<p>Exam Dates</p>	<p>10.09.18 to 19.09.18</p>	<p>Syllabus Covered from 09.04.18 to 09.09.18 + Workbook</p>
<p>PT-2</p> <p>20</p>	<p>20.09.18 to 18.11.18</p>	<p>Unit III – Cell : Structure and Function</p> <p>Ch 09 : Cell – The Unit of Life</p> <p>Ch 08 : Biomolecules</p> <p>Ch 07 : Cell Cycle and Cell Division</p> <p>Unit II – Cell : Structural Organisation in Plants and Animals</p> <p>Ch 05 : Morphology of Flowering Plants</p>
<p>Test Dates</p>	<p>19.11.18</p>	<p>Syllabus Covered from 20.09.18 to 18.11.18 + Workbook</p>

<p>CT-2</p> <p>70</p>	<p>19.11.18 to 25.12.18</p>	<p>Unit II – Cell : Structural Organisation in Plants and Animals Ch 06 : Anatomy of Flowering Plants Ch 07 : Structural Organisation in Animals</p> <p>Unit I – Diversity of Living Organisms Ch 01 : The Living World Ch 02 : Biological Classification</p>
<p>Exam Dates</p>	<p>26.12.18 to 15.01.19</p>	<p>Syllabus Covered from 09.04.18 to 25.12.18 + Workbook</p>
<p>Final Exam</p> <p>Theory Practical</p> <p>70 30</p> <p>15.02.19 onward</p>	<p>16.01.19 to 14.02.19</p>	<p>Unit I – Diversity of Living Organisms Ch 03 : Plant Kingdom Ch 04 : Animal Kingdom</p> <p>Complete Syllabus covered during the session + Workbook</p>
<p>Reference Books: 1. A textbook of Biology by Pradeep Publication. 2. Trumen's Elementary Biology.</p>		

Subject Code : 044-Biology (Practical)		Syllabus : 2018-2019	Class : XI
TEST/EXAM	DURATION	PARTICULARS	
June Test	09.04.18 to 25.05.18	1. Study of Parts of a compound Microscope 2. Testing of urine to detect the presence of urea, sugar, albumin and bile salt in urine. 3. To study human skeleton and different types of joints. 4. Study of distribution of stomata in the upper and lower surface of leaf. 5. Comparative study of the rates of transpiration in the upper and lower surface of leaves. 6. Study of plasmolysis in epidermal peel. 7. Study of imbibition in seeds / Raisin. 8. To separate plant pigments through paper chromatography. Allocation of the Project.	
CT-1	02.07.18 to 09.09.18	9. Study of osmosis by potato osmoscope. 10. Observation and comment on experimental set up. 11. Study of Mitosis from Permanent Slides. 12. Study of Meiosis from Permanent Slides. 13. Chemical analysis of food.	
30 Date Sheet will be provided in advance	-	Syllabus Covered from 09.04.18 to 09.09.18 + Workbook	
CT – 2	20.09.18 to 25.12.18	14. Study of different modification in root, stem and leaf. 15. Description of flower. 16. Study of Plant tissue. 17. Preparation and study of T.S. of dicot and monocot stem and root. 18. Study of Animal Tissue. 19. Study of external morphology of cockroach through models. 20. Study and identification of different types of inflorescence. Submission of the Project.	
Final Exam 30 Date Sheet will be provided in advance	-	21. Study of Plant Kingdom. 22. Study of Animal Kingdom.	
Reference Books: Comprehensive Laboratory Manual in Biology.		Note : Project guidelines as per CBSE.	

Subject Code : 030 - Economics		Syllabus: 2018-2019	Class : XI
Prescribed Books: 1. Introductory Microeconomics – N.C.E.R.T. (Book I) 2. Statistics for Economics – N.C.E.R.T. (Book II)			
TEST/EXAM	DURATION	PARTICULARS	
June Test 80	09.04.18 to 25.05.18	BOOK : I Unit 1 : Introduction Unit 2 : Consumer’s Equilibrium and Demand Allocation of project	
Test Dates	21.06.18 to 29.06.18	Syllabus Covered from 09.04.18 to 25.05.18 + Workbook	
PT-1 20	02.07.18 to 05.08.18	BOOK : I Unit 3 : Producer Behaviour and Supply Unit 4 : Forms of market and price determination under perfect competition with simple applications.	
Test Dates	06.08.18	Syllabus Covered from 02.07.18 to 05.08.18 + Workbook	

CT-1 Theory 80	06.08.18 to 09.09.18	BOOK : I Unit 4 : Forms of market and price determination under perfect competition with simple applications. (contd.) BOOK : II Ch 1 : Introduction Ch 2 : Collection of Data
Exam Dates	10.09.18 to 19.09.18	Syllabus Covered from 09.04.18 to 09.09.18 + Workbook
PT-2 20	20.09.18 to 18.11.18	BOOK : II Ch 3 : Organisation of Data Ch 4 : Presentation of Data Ch 5 : Measures of Central Tendency Ch 6 : Measures of Dispersion
Test Dates	19.11.18	Syllabus Covered from 20.09.18 to 18.11.18 + Workbook
CT-2 80	19.11.18 to 25.12.18	BOOK : II Ch 6 : Measures of Dispersion (contd.) Ch 7 : Correlation Submission of project
Exam Dates	26.12.18 to 15.01.19	Syllabus Covered from 09.04.18 to 25.12.18 + Workbook

Subject Code : 048 - Physical Education (Theory)		Syllabus : 2018-2019	Class : XI
Prescribed Books: Saraswati Health & Physical Education			
TEST/EXAM	DURATION	PARTICULARS	
June Test 70	09.04.18 to 25.05.18	Unit 1 : Changing trends and career in physical education Unit 2 : Olympic Movement Unit 3 : Physical Fitness, Wellness and Life Style	
Test Dates	21.06.18 to 29.06.18	Syllabus Covered from 09.04.18 to 25.05.18 + Assignments provided	
PT-1 20	02.07.18 to 05.08.18 / 19.08.18*	Unit 4 : Physical Education and Sports for for CWSN (Children With Special Needs-Divyang) Unit 5 : Yoga Unit 6 : Physical Activity and Leadership Training	
Test Dates	06.08.18 / 20.08.18*	Syllabus covered from 02.07.18 to 05.08.18/19.08.18 + Workbook	
CT-1 Theory 70 Practical 30	06.08.18 / 20.08.18* to 09.09.18	Unit 7 : Test, Measurement and Evaluation Unit 8 : Fundamentals of Anatomy and Physiology	

Exam Dates	10.09.18 to 19.09.18	Syllabus Covered from 09.04.18 to 09.09.18 + Assignment provided
PT-2 20	20.09.18 to 18.11.18 / 09.12.18**	Unit 9 : Kinesiology Biomechanics and Sports Unit 10 : Psychology and Sports
Test Dates	19.11.18/10.12.18**	Syllabus Covered from 20.09.18 to 18.11.18/19.12.18 + Assignment provided
CT-2 70	19.11.18/10.12.18** to 25.12.18	Unit 11 : Training in sports Unit 12 : Doping
Exam Dates	26.12.18 to 15.01.19	Syllabus Covered from 09.04.18 to 25.12.18 + Assignment provided
Final Exam Theory Practical 70 30 15.02.19 onward	16.01.19 to 14.02.19	Revision of Complete Syllabus covered during the session + Assignments provided
Reference books: Together with Physical Education by S. Saini		
* PT1 Test Date : Against Biology / Computer Science/Economics - 06.08.18 Against Mathematics - 20.08.18		** PT2 Test Date : Against Biology / Computer Science/Economics - 18.11.18 Against Mathematics - 19.12.18

Subject Code : 048 - Physical Education (Practical)		Syllabus : 2018-2019	Class : XI
Prescribed Books: Saraswati Health & Physical Education			
TEST/EXAM	DURATION	PARTICULARS	
June Test	09.04.18 to 25.05.18	<ul style="list-style-type: none"> Physical Fitness (AAPHER) Skill of any individual game of choice from –Athletics, Badminton, Basket Ball, Table Tennis, Volley Ball. 	
CT-1	02.07.18 to 09.09.18	<ul style="list-style-type: none"> Practical - 1: Labelled diagram of 400 M Track & Field with computations. Practical - 2: Computation of BMI from family or neighbourhood & graphical representation of the data. 	
30 Date Sheet will be provided in advance	-	Syllabus Covered from 09.04.18 to 09.09.18 + Assignment provided	
CT – 2	20.09.18 to 25.12.18	<ul style="list-style-type: none"> Practical - 3: Labelled diagram of field & equipment of any one game of your choice out of the above list. Practical - 4: Explanation & list of current National Awardees (Dronacharya Award, Arjuna Award & Rajiv Gandhi Khel Ratna Award) Practical - 5: Pictorial presentation of any five Asanas for improving concentration. Viva and Record File 	
Final Exam 30 Date Sheet will be provided in advance	-	Revision	
Reference books: Together with Physical Education by S. Saini			

Subject Code : 083 - Computer Science - Theory		Syllabus : 2018-2019	Class : XI
Prescribed Books:			
TEST/EXAM	DURATION	PARTICULARS	
June Test 70	09.04.18 to 25.05.18	Unit 1 : Programming and Computational Thinking (PCT 1)	
Test Dates	21.06.18 to 29.06.18	Syllabus Covered from 09.04.18 to 25.05.18 + Assignments provided	
PT-1 20	02.07.18 to 05.08.18	Unit 1 : Programming and Computational Thinking (PCT 1)	
Test Dates	06.08.18	Syllabus covered from 02.07.18 to 05.08.18 + Assignments provided	
CT-1 Theory 70 Practical 30	06.08.18 to 09.09.18	Unit 1 : Programming and Computational Thinking (PCT 1)	

Exam Dates	10.09.18 to 19.09.18	Syllabus Covered from 09.04.18 to 09.09.18 + Assignments provided
PT-2 20	20.09.18 to 18.11.18	Unit 2 : Computer System and Organisation Unit 3 : Data Management 1
Test Dates	19.11.18	Syllabus Covered from 20.09.18 to 18.11.18 + Assignments provided
CT-2 70	19.11.18 to 25.12.18	Unit 3 : Data Management 1 Unit 4 : Society, Law and Ethics - 1 (Cyber Safety)
Exam Dates	26.12.18 to 15.01.19	Syllabus Covered from 09.04.18 to 25.12.18 + Assignments provided
Final Exam Theory Practical 70 30 15.02.19 onward	16.01.19 to 14.02.19	Unit 4 : Society, Law and Ethics - 1 (Cyber Safety) Revision
Reference books:	Fundamentals of Computers Python Programming (John Zelle)	

Subject : 083 - Computer Science - Practical		Syllabus : 2018 - 2019	Class : XI
TEST/EXAM	DURATION	PARTICULARS	
June Test	09.04.18 to 25.05.18	Python Programms dealing with - Print Statement - Data Types and Operators - Conditional Construct - Looping Construct - Lists, Tuples, Dictionaries and Strings Debugging of Code	
CT-1	02.07.18 to 05.08.18		
30 Date Sheet will be provided in advance	-	Syllabus Covered from 09.04.18 to 05.08.18 + Assignment provided	
CT - 2	20.09.18 to 25.12.18	Demonstration of Cloud Concept (for storage etc.) SQL Commands Project work	
Final Exam 30 Date Sheet will be provided in advance	-	Revision of all above	

Subject Code : 500 - Work Experience (Applied Art)		Syllabus : 2018-2019		Class : XI
MONTH	PARTICULARS			
	Theory		Practical	
March' 18 to August' 18	<ul style="list-style-type: none"> • Story Board: Role & Importance • Introduction to poster design and its basic elements. • Introduction to 2D animation & role of illustration Poster Design 	<ul style="list-style-type: none"> • Make a poster on a given theme. • Pen and Ink drawing • Design Making <p>Material required: Black water proof Ink, Painting brushes, Steel Scale (30cm), Compass, Black gel pen/ OHP marker, Water Container, Duster.</p>		
September' 18	Mid Term Assessment			
October'18 to December' 18	<ul style="list-style-type: none"> • Design and its basic elements 	<ul style="list-style-type: none"> • Design a Magazine advertisement on a given theme/ topic • Create a caricature from a famous personality • Recreate a logo design from famous brand. 		
January' 19	Final Assessment			
Note: Grading will be done as per CBSE guidelines.				

Subject Code : 500 - Work Experience (Bharatnatyam & Indian Contemporary Dance)		Syllabus : 2018-2019		Class : XI
MONTH	PARTICULARS			
	Theory		Practical	
March' 18 to August' 18	<ul style="list-style-type: none"> • Introduction to Contemporary Dance techniques 		<ul style="list-style-type: none"> • Working on style and flexibility • One Creative item. • Preparation of one semi classical Item. • Moves, Connection, foot and floor work, mudra. 	
September' 18	Mid Term Assessment			
October'18 to December'18	<ul style="list-style-type: none"> • Knowledge of contemporary and Classical Dance forms. • Revision. 		<ul style="list-style-type: none"> • Bharatnatyam and one contemporary dance item (short) • Practice for Senior Annual day. • Revision. 	
January' 19	Final Assessment			
Note: Grading will be done as per CBSE guidelines.				

Subject Code : 500 - Work Experience (Craft)		Syllabus : 2018-2019		Class : XI
MONTH	PARTICULARS			
	Theory		Practical	
March' 18 to August' 18	<ul style="list-style-type: none"> • Creative paper art & Its history. • P.O.P. mask making • Creative 3 D flower 	<ul style="list-style-type: none"> • Learn to make creative paper sculpture : Material required: Old Magazine, Newspaper, Fevicol, Fabric Glue, Scissors, etc. • Learn to make P.O.P. mask: Material required: POP & Various tools • Learn to make 3D flower: Material required: Fabric glue, Hand made sheet (Blue, Purple, Orange) Oil Pastel, A4- Size sheets of various colors, cutter, scissors and decorative material. 		
September' 18	Mid Term Assessment			
October'18 to December' 18	<ul style="list-style-type: none"> • Best out of waste • Revision 	<ul style="list-style-type: none"> • Make any item using waste material. • Completion of pending work 		
January' 19	Final Assessment			
Note: Grading will be done as per CBSE guidelines.				

Subject Code : 500 - Work Experience (Dramatics) Syllabus : 2018-2019		Class : XI
MONTH	PARTICULARS	
	Theory	Practical
March' 18 to August' 18	<ul style="list-style-type: none"> • Speech, Diction, • Body Language, Voice-Modulation • Workshop on Realistic and Non-realistic Play Writing • Understanding current issues • Workshop on Respect Elderly Women and Geriatrics Care. 	<ul style="list-style-type: none"> • Reading of a play • Solo Performance • Performance on the same • Performance on stage
September' 18	Mid Term Assessment	
October'18 to December' 18	<ul style="list-style-type: none"> • Reading and understanding various poets • Workshop on Women Empowerment • Street play on Social Issues • Workshop on Gender Inequality • Script Writing • Special workshop on Respect Women 	<ul style="list-style-type: none"> • Performance on the same. • Public Performance • Presentation of Scripts
January' 19	Final Assessment	
Note: Grading will be done as per CBSE guidelines.		

Subject Code : 500 - Work Experience (Electronics)		Syllabus : 2018-2019		Class : XI
MONTH	PARTICULARS			
	Theory		Practical	
March' 18 to August' 18	<ul style="list-style-type: none"> • Voltage stabilizer. Its various types and construction. • Working Principle & Designing of Stabilizer • Modulation Technique • Logic Gates • Number system (Decimal, Binary and Hexadecimal) 	<ul style="list-style-type: none"> • Rectifier circuit • To practically verify the output of logic gates • To construct logic gate based security system. 		
September' 18	Mid Term Assessment			
October'18 to December' 18	<ul style="list-style-type: none"> • Basic knowledge of computer hardware. • To study Block diagram of TV receiver. • Revision. 	<ul style="list-style-type: none"> • Assembling and trouble shooting on system. • Revision 		
January' 19	Final Assessment			
Note: Grading will be done as per CBSE guidelines.				

Subject Code : 500 - Work Experience (Indian Dance)		Syllabus : 2018-2019		Class : XI
MONTH	PARTICULARS			
	Theory		Practical	
March' 18 to August' 18	<ul style="list-style-type: none"> • Introduction of Indian Classical Dance, Western Dance and Folk Dance. • Introduction of Taal, Teen Taal and Practice of Padhant. 	<ul style="list-style-type: none"> • Practice of Tatkar, Hastak Thaat – Amad & Paran Amad. • Practice of One Simple Tukda and One Tihai. 		
September' 18	Mid Term Assessment			
October'18 to December' 18	<ul style="list-style-type: none"> • Shloka of Hastra Mudra and Kathak Bol Padhant. 	<ul style="list-style-type: none"> • Practice of Padhant, Bhav and Parmelu. 		
January' 19	Final Assessment			
Note: Grading will be done as per CBSE guidelines.				

Subject Code : 500 - Work Experience (Instrumental Music)		Syllabus : 2018-2019		Class : XI
MONTH	PARTICULARS			
March'18 to August' 18	Theory		Practical	
	<ul style="list-style-type: none"> • Knowledge of Taal and their parts • Concept of Raag • Introduction of Raag 	<ul style="list-style-type: none"> • Practice of Alankar • Practice of National Anthem and National Song • Practice of one Raag Desh. 		
September' 18	Mid Term Assessment			
October'18 to December' 18	<ul style="list-style-type: none"> • Knowledge of Orchestra. • Knowledge of C#, D#, F#, G# and A# chords • Major and Minor chords • Revision 	<ul style="list-style-type: none"> • Systematic arrangement of Instruments in Orchestra. • Practice to play C#, D#, F#, G# and A# chords • Practice to play all the Major and Minor chords • Practice to play teen taal. 		
January' 19	Final Assessment			
Note: Grading will be done as per CBSE guidelines.				

Subject Code : 500 - Work Experience (Textile Designing) Syllabus : 2018-2019		Class : XI
MONTH	PARTICULARS	
	Theory	Practical
March' 18 to August' 18	<ul style="list-style-type: none"> • Knowledge about various dyes and their dyeing process. • Introduction to concept of design in tie and dye • Knowledge of making block printing colours. • Knowledge of shading with fabric colours • Element of design in fabric painting. 	<ul style="list-style-type: none"> • To tie and dye a cotton / silk scarf / dupatta • To print a bed sheet (Single Bed) • To Print a short kurta/ suit/ saree.
September' 18	Mid Term Assessment	
October'18 to December' 18	<ul style="list-style-type: none"> • Knowledge of painting in acrylic/ oil colours. • Revision. 	<ul style="list-style-type: none"> • To paint an abstract/ semi abstract painting. • Revision
January' 19	Final Assessment	
Note: Grading will be done as per CBSE guidelines.		

Subject Code : 500 - Work Experience (Vocal Music)		Syllabus : 2018-2019		Class : XI
MONTH	PARTICULARS			
	Theory		Practical	
March' 18 to August' 18	<ul style="list-style-type: none"> • Different forms of Music • Different types of Music • Brief history of Indian Classical Music 	<ul style="list-style-type: none"> • National Song • National Anthem • Practice of National song and National Anthem 		
September' 18	Mid Term Assessment			
October'18 to December' 18	<ul style="list-style-type: none"> • Evolution of Indian Music 	<ul style="list-style-type: none"> • Bhajan – "Vaishnav Jan to Tene Kahiye" • Christmas Carol. 		
January' 19	Final Assessment			
Note: Grading will be done as per CBSE guidelines.				

Subject Code : 502- Physical Education and Health		Syllabus : 2018-2019	Class : XI
MONTH	PARTICULARS		
March' 18 to August' 18	<ul style="list-style-type: none"> • Games: Basket Ball, Badminton, Hand Ball, Volley Ball, Kho-kho, Table- Tennis, Athletics • History of the Game / Sports • Latest general rules of the Game / Sports • Specification of play fields and sports equipments 		
September' 18	Mid Term Assessment		
October'18 to December' 18	<ul style="list-style-type: none"> • Sports Terminologies, • Sports Tactics, • Developing Motor Components for Particular Game. • Important Tournaments and Venues • Famous Sports Personalities • Sports Awardees • Common Sports Injuries and their preventions and treatments 		
January' 19	Final Assessment		
<p>Self Defence Training for Girl Students : Commands - Ray Group, Right Rest - Hands down, Sico Dachi Punch Position - stance- ready up right side right leg with bothhands at waist with punch(close fingers & lock by thumb). Techniques - Middle Punch, Upper Punch, Lower Punch, Middle Finger's tips attack, Upper finger's tips attack, Lower finger's tips attack, Middle palm thrust, Upper palm thrust, Lower palm thrust, Temple attack, Temple short punch, Front elbow attack, Back elbow attack, Front block, Side block, Lower block, Chin shoggi, Front shoggi (Stomach), Ribs attack, Bus attack-self equipments-as mentioned earlier, Front kick, Side kick, Back kick, Single hand grip, Double hand grip and Attack on sensitive parts by hand & legs</p> <p>Note: Grading will be done as per CBSE guidelines.</p>			

Subject Code : 503 - General Studies		Syllabus : 2018-2019	Class : XI
MONTH	PARTICULARS		
March' 18 to August' 18	<ul style="list-style-type: none"> Value Education workshops - as per the schedule . 		
September' 18	Mid Term Assessment		
October'18 to December' 18	<ul style="list-style-type: none"> Project/ Presentation on any one of the given topic <ol style="list-style-type: none"> Most Lucrative Careers for Youth today Women Empowerment Social ills that ail the India Society 		
January' 19	Final Assessment		
Note: Grading will be done as per CBSE guidelines.			

Year Planner : 2018-2019			Class : XI
MONTH	DATE & DAY	DETAILS	
April' 18	09.04.2018 (Monday)	Commencement of the Session	
	21.04.2018 (Saturday)	Parent's Workshop : Career Counseling	
May' 18	11.05.2018 (Friday)	Student's Workshop : Treading the Career Path	
	26.05.2018 (Saturday) to 20.06.2018 (Wednesday)	Summer Break	
June' 18	21.06.2018 (Thursday) to 29.06.2018 (Friday)	June Test	
July' 18	04.07.2018 (Wednesday)	Principal's Session	
	11.07.2018 (Wednesday)	Students' Workshop : Social Networking Ethics	
	13.07.2018 (Friday)	Value Education Workshop : Responsibility by XI A	
	18.07.2018 (Wednesday)	Value Education Workshop : Positive Approach by XI B	
	20.07.2018 (Friday)	Value Education Workshop : Respect and Courtesy by XI C	
	23.07.2018 (Monday) to 20.08.2018 (Monday)	PT 1 Exam	
August' 18	25.07.2018 (Wednesday)	Value Education Workshop : Conflict Resolution by XI D	
	04.08.2018 (Saturday)	Parent Teacher Meeting	
	18.08.2018 (Saturday)	Parent's Workshop : Befriending Your Children	
September' 18	10.09.2018 (Monday) to 19.09.2018 (Wednesday)	CT – 1 Examination	
	20.09.2018 (Thursday)	Students' Workshop : Mapping for Success	
	29.09.2018 (Saturday)	Educational Visit : NPL (Science Students)	
October' 18	06.10.2018 (Saturday)	Parent Teacher Meeting and Book Fair	
November' 18	03.11.2018 (Saturday)	'Chrysalis', Senior Annual Day & Prize Distribution Ceremony	
	14.11.2018 (Wednesday) to 10.12.2018 (Monday)	PT 2 Exam	
	16.11.2018 (Friday)	Senior Sports Day	
December'18	15.12.2018 (Saturday)	Insync - School Fete	
	27.12.2018 (Thursday) to 15.01.2019 (Monday)	CT – 2 Examination	
January' 19	19.01.2019 (Saturday)	Parent Teacher Meeting and Book Fair	
February – March' 19	15.02.2019 onwards	Final Examination	

Note: 1. Dates Proposed are tentative and subject to change. 2. Dates and details of workshops & Educational Visit will be intimated as per the availability of Venue & Resource Person.

List of Holidays : 2018-2019		Class : XI
MONTH	DATE & DAY	DETAILS
April' 18	30th Monday	Buddha Purnima
May - June' 18	26th May till 20th June, 2018	Summer Break
July' 18	-	-
August' 18	15th Wednesday 22nd Wednesday	Independence Day Id-ul-Zuha (Bakrid)
September' 18	3rd Monday 21st Friday	Janamashtami Muharram
October' 18	2nd October, Tuesday 17th Wednesday to 19th Friday 24th Wednesday	Mahatma Gandhi's Birthday Dussehra Break Maharishi Valmiki's Birthday
November' 18	6th Tuesday to 9th Friday 21st Wednesday 23rd Friday	Diwali Break Milad-un-Nabi Guru Nanak's Birthday
December' 18	25th Tuesday 29th Saturday to 31st Monday	Christmas Day Winter Break
January '19	1st Tuesday to 14th Monday 26th Saturday	Winter Break Republic Day