

SYLLABUS

2018 - 2019

CLASS : XII
(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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RUKMINI DEVI PUBLIC SCHOOL
Class XII (Science)

Class : XII

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

Evaluation System:

1. There would be a system of assessments for each subject as per the prescribed syllabus and examination schedule.
 - June Test will include the syllabus covered till May, CT 1 will include the cumulative syllabus covered till September and CT 2 will include the cumulative syllabus covered till November.
 - The Pre-Board Exam Question Paper will follow the weight age provided by CBSE i.e it will be according to CBSE pattern.
 - Each student should have 75% of attendance in each term to be eligible to appear in CTs, Pre Board and Board Exam.
 - Subject wise qualifying minimum percentage is 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 copy 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	CT 1	CT 2	Pre – Boards
21.06 2018 to 29.06.2018	10.09.2018 to 19.09.2018	19.11.2018 to 03.12.2018	26.12.2018 to 15.01.2019

Subject Code : 301 - English Core		Syllabus: 2018-2019	Class : XII
Prescribed Books:			
1. Flamingo-Text book, Class XII (Core Course) NCERT			
2. Vistas- Supplementary Reader in English, Class XII (Core Course) NCERT			
3. Novel- The Invisible Man by H.G.Wells			
TEST/EXAM	DURATION	PARTICULARS	
June Test 100	12.03.18 to 25.05.18	Book 1 : L1 - The Last Lesson L2 - Lost Spring – Stories of Stolen Childhood L3 - Deep Water Poem1 - My Mother at Sixty Six Poem2 - An Elementary School Classroom in a Slum	Book 2 : L1 - The Tiger King : L3 - Should Wizard Hit Mommy ?
Test Dates	21.06.18 to 29.06.18	Writing Skills : Notice Writing, Letter to Editor, Article Writing, Speech Writing Reading Skills : Reading Comprehension, Note Making & Summary Novel : Ch -1 to 9	
CT-1 100	02.07.18 to 09.09.18	Syllabus Covered from 12.03.18 to 25.05.18+ Workbook	
		Book 1 : L4- The Rattrap L5- Indigo Poem3- Keeping Quiet Poem4- A Thing of Beauty	Book 2 : L2- The Enemy L4- On the Face of It
		Writing Skills : Advertisements, Job Application	Reading Skills : Reading Comprehension, Note Making & Summary
		Novel : Ch-10 to 19 (Self Reading)	

Exam Dates	10.09.18 to 19.09.18	Syllabus Covered from 12.03.18 to 09.09.18 + Workbook
CT-2 (100)	20.09.18 to 18.11.18	<p>Book 1 : L6- Going Places Poem 5- Aunt Jennifer's Tigers</p> <p>Book 2 : L5- Evans Tries an O – Level L6- Memories of Childhood</p> <p>Writing Skills : Poster, Invitations Business and Official letters Debate, Report Writing</p> <p>Reading Skills : Reading Comprehension, Note Making & Summary</p> <p>Novel : Ch-20 to 28 (Self Reading)</p> <p>Note : Complete Syllabus would be covered in CT – 3</p>
Exam Dates	19.11.18 to 03.12.18	Syllabus Covered from 12.03.18 to 18.11.18 + Workbook
Pre Board	04.12.18 to 25.12.18	Revision and Discussion of Sample Papers
Pre-Board Exams (100)	26.12.18 to 15.01.19	Syllabus : Complete syllabus covered during the session + Workbook
Reference books: BBC Compacta (Class 12)		

Subject Code : 041 - Mathematics		Syllabus: 2018-2019	Class : XII
Prescribed Books: 1. Mathematics – A Text Book for Class XII Part I-II (NCERT) 2. Mathematics - Exemplar Problems Class XII			
TEST/EXAM	DURATION	PARTICULARS	
June Test (100)	12.03.18 to 25.05.18	Ch 1 : Relations and Functions Ch 2 : Inverse Trigonometric Functions Ch 3 : Matrices Ch 4 : Determinants Ch 5 : Continuity and Differentiability	
Test Dates	21.06.18 to 29.06.18	Syllabus Covered from 12.03.18 to 25.05.18+ Workbook	
CT-1 (100)	02.07.18 to 09.09.18	Ch 6 : Application of Derivatives Ch 7 : Integrals Ch 8 : Application of Integrals Ch 9 : Differential Equations Ch 12 : Linear Programming	
Exam Dates	10.09.18 to 19.09.18	Syllabus Covered from 12.03.18 to 09.09.18 + Workbook	

CT-2 100	20.09.18 to 18.11.18	Ch 10 : Vectors Ch 11 : Three Dimensional Geometry Ch 13 : Probability
Exam Dates	19.11.18 to 03.12.18	Syllabus Covered from 12.03.18 to 18.11.18 + Workbook
Pre Board	04.12.18 to 25.12.18	Revision and Discussion of Sample Papers
Pre-Board Exams 100	26.12.18 to 15.01.19	Syllabus : Complete syllabus covered during the session + Workbook
Reference books: Mathematics for Class XII - R.D. Sharma, Mathematics by Lalit Sharma and Jyoti Bhola, Pradeep's New Course Mathematics		

Subject Code : 030 - Economics		Syllabus: 2018-2019	Class : XII
Prescribed Books: 1. Introductory Micro Economics – N.C.E.R.T. (Book I) 2. Introductory Macro Economics – N.C.E.R.T. (Book II)			
TEST/EXAM	DURATION	PARTICULARS	
June Test 80	12.03.18 to 25.05.18	Book 1 Unit 1 : Introduction Unit 2 : Consumer's Equilibrium and Demand Unit 3 : Producer Behaviour and Supply Unit 4 : Forms of Market & Price Determination under perfect competition with simple applications	
Test Dates	21.06.18 to 29.06.18	Syllabus Covered from 12.03.18 to 25.5.18+ Workbook	
CT-1 80	02.07.18 to 09.09.18	BOOK : I Unit 4 : Forms of Market & Price Determination under perfect competition with simple applications (contd.) BOOK : II Unit 5 : National Income & Related Aggregates Unit 7 : Determination of Income & Employment Allocation of the Project.	
Exam Dates	10.09.18 to 19.09.18	Syllabus Covered from 12.03.18 to 09.09.18 + Workbook	

<p style="text-align: center;">CT-2</p> <p style="text-align: center;">Theory Project</p> <p style="text-align: center;">(80) (20)</p>	<p style="text-align: center;">20.09.18 to 18.11.18</p>	<p>BOOK : II</p> <p>Unit 7 : Determination of Income & Employment (contd.)</p> <p>Unit 6 : Money and Banking</p> <p>Unit 8 : Government Budget & the Economy</p> <p>Unit 9 : Balance of Payments</p> <p>Submission of the Project.</p>
<p style="text-align: center;">Exam Dates</p>	<p style="text-align: center;">19.11.18 to 03.12.18</p>	<p style="text-align: center;">Syllabus Covered from 12.03.18 to 18.11.18 + Workbook</p>
<p style="text-align: center;">Pre Board</p>	<p style="text-align: center;">04.12.18 to 25.12.18</p>	<p style="text-align: center;">Revision and Discussion of Sample Papers</p>
<p style="text-align: center;">Pre-Board Exams</p> <p style="text-align: center;">(80)</p>	<p style="text-align: center;">26.12.18 to 15.01.19</p>	<p>Syllabus : Complete syllabus covered during the session + Assignments provided</p>
<p>Reference Books: 1. Introductory Micro Economics – Sandeep Garg 2. Introductory Macro Economics – Sandeep Garg 3. Xamidea Economics</p> <p>Note : Project guidelines as per CBSE</p>		

Subject Code : 042 - Physics (Theory)		Syllabus: 2018-2019	Class : XII
Prescribed Books : Physics – A Textbook for Class XII (NCERT)			
TEST/EXAM	DURATION	PARTICULARS	
June Test (70)	12.03.18 to 25.05.18	Unit-I: Electrostatics Ch.1: Electric charges and fields Ch.2: Electrostatics potential and capacitance Unit-II: Current electricity Ch.3: Current electricity Unit-VI: Optics Ch.9: Ray optics & optical instruments Ch.10: Wave optics	
Test Dates	21.06.18 to 29.06.18	Syllabus Covered from 12.03.18 to 26.05.18 + Workbook	
CT-1 Theory (70) Practical (30)	02.07.18 to 09.09.18	Unit-III: Magnetic Effect of Current and Magnetism Ch.5: Magnetism and Matter Ch.4: Moving charges and Magnetism Unit-IV: EMI AND AC Ch.6: Electromagnetic Induction Ch.7: Alternating current Unit-V: EM Waves Ch.8: Electromagnetic Waves Unit-VII: Dual nature of Radiation and Matter Ch.11: Dual nature of Radiation and matter	

Exam Dates	10.09.18 to 19.09.18	Syllabus Covered from 12.03.18 to 09.09.18 + Workbook
CT-2 Theory Practical 70 30	20.09.18 to 18.11.18	Unit-VIII: Atom & Nuclei Ch.12: Atoms Ch.13: Nuclei Unit-IX: Electronic Devices Ch.14: Semiconductor Electronics : Materials, Devices and Simple Circuits Unit-X: Communication Systems Ch.15: Communication systems
Exam Dates	19.11.18 to 03.12.18	Syllabus Covered from 12.03.18 to 18.11.18 + Workbook
Pre Board	04.12.18 to 25.12.18	Revision and Discussion of Sample Papers
Pre-Board Exams 70	26.12.18 to 15.01.19	Syllabus : Complete syllabus covered during the session +Workbook
Reference books: 1. Together with Physics. 2. S.L. Arora (Dhanpat Rai Publications)		

Subject Code : 042 - Physics (Practical)		Syllabus : 2017-2018	Class : XII
Prescribed Books: Physics NCERT			
TEST/EXAM	DURATION	PARTICULARS	
June Test	12.03.18 to 25.05.18	<p>Experiments :</p> <ol style="list-style-type: none"> To determine resistance per cm of a given wire by plotting a graph of potential difference vs current. To find resistance of a given wire using metre bridge and hence determine specific resistance of its material. To verify the laws of combination using Metre bridge. Comparison of emf of two given primary cells using Potentiometer. To determine internal resistance of given primary cells using Potentiometer. <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 determine resistance of a galvanometer by half deflection method and to find its figure of merit. To find the frequency of AC mains using sonometer. To find the value of V for different values of u in case of a concave mirror and to find its focal length. To find the focal length of a convex lens by plotting graphs between u & v or between $1/u$ and $1/v$. To find the focal length of a concave lens using convex lens. To determining refractive index of a glass slab. To determine angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation. <p>Activities (Demonstration) :</p> <ol style="list-style-type: none"> To measure resistance, voltage (AC/DC), current (AC) and check continuity of a given circuit using multimeter. To assemble the components of a given electrical circuit. To study the variation in potential drop with length of a wire for a steady current. 	
<p style="text-align: center;">30</p> <p>Date Sheet will be provided in advance</p>	-	Syllabus Covered from 12.03.18 to 09.09.18 + Workbook	

<p style="text-align: center;">CT-2</p>	<p style="text-align: center;">20.09.18 to 18.11.18</p>	<p>Experiments :</p> <ol style="list-style-type: none"> 13. To draw the I-V characteristics curve of a p-n junction in a forward bias and reverse bias. 14. To draw the characteristic curve of a zener diode and to determine its reverse break down voltage. 15. To study the characteristic of a C-E npn transistor and to find out the values of current and voltage gains <p>Activities (Demonstration) :</p> <ol style="list-style-type: none"> 1. To observe refraction and lateral deviation of a beam of light incident obliquely on a glass slab. 2. To observe polarization of light using two Polaroids. 3. To identify a diode, an LED, a transistor, an IC, a resistor and a capacitor from a mixed collection of such items. <p>Submission of the Project.</p>
<p style="text-align: center;">(30)</p> <p>Date Sheet will be provided in advance</p>	<p style="text-align: center;">-</p>	<p style="text-align: center;">Revision and discussion of practicals covered during the session</p>
<p>Reference Books: Together With, Comprehensive</p> <p>Note : Project guidelines as per CBSE.</p>		

Subject Code : 043 - Chemistry (Theory)		Syllabus: 2018-2019	Class : XII
Prescribed Books : Chemistry – A Textbook for Class XII (NCERT)			
TEST/EXAM	DURATION	PARTICULARS	
June Test (70)	12.03.18 to 25.05.18	Organic Chemistry Unit 10 : Haloalkanes and Haloarene Unit 11 : Alcohols, Phenols and Ethers Unit 12 : Aldehydes, Ketones and Carboxylic Acids Unit 13 : Organic Compounds containing Nitrogen Unit 14 : Biomolecules	
Test Dates	21.06.18 to 29.06.18	Syllabus Covered from 12.03.18 to 25.05.18 + Workbook	
CT-1 Theory (70) Practical (30)	02.07.18 to 09.09.18	Unit 15 : Polymers Unit 16 : Chemistry in Everyday Life Unit 01 : Solid State Unit 02 : Solutions Unit 03 : Electrochemistry Unit 04 : Chemical Kinetics Unit 05 : Surface Chemistry	
Exam Dates	10.09.18 to 19.09.18	Syllabus Covered from 12.03.18 to 09.09.18 + Workbook	

CT-2 Theory Practical 70 30	20.09.18 to 18.11.18	Unit 06 : General Principles and Processes of Isolation of Elements Unit 07 : p – Block Elements Unit 08 : d - and f - Block Elements Unit 09 : Coordination Compounds
Exam Dates	19.11.18 to 03.12.18	Syllabus Covered from 12.03.18 to 18.11.18 + Workbook
Pre Board	04.12.18 to 25.12.18	Revision and Discussion of Sample Papers
Pre-Board Exams 70	26.12.18 to 15.01.19	Syllabus : Complete syllabus covered during the session + Workbook
Reference Books: 1. A textbook of Chemistry by Pradeep Publication. 2. Modern ABC 3. G.R. Bathla Publication		

Subject Code : 043 - Chemistry (Practical)		Syllabus : 2018-2019	Class : XII
TEST/EXAM	DURATION	PARTICULARS	
June Test	12.03.18 to 25.05.18	<ol style="list-style-type: none"> Quantitative Analysis : Determination of concentration/ molarity of KMnO_4 solution by titrating it against a standard solution of Ferrous Ammonium Sulphate. Qualitative Analysis : Determination of one cation and one anion in a given salt. Tests for the functional groups present in organic compounds. Allocation of the Project.	
CT-1	02.07.18 to 09.09.18	<ol style="list-style-type: none"> Chromatography Electrochemistry Chemical Kinetics Preparation of one lyophilic and one lyophobic sol Quantitative Analysis : Determination of concentration/ molarity of KMnO_4 solution by titrating it against a standard solution of Oxalic Acid. 	
30 Date Sheet will be provided in advance	-	Syllabus Covered from 12.03.18 to 09.09.18 + Workbook	
CT-2	20.09.18 to 18.11.18	<ol style="list-style-type: none"> Characteristic tests of carbohydrates, fats and proteins in pure samples and their detection in given food stuffs. Preparation of double salt of Ferrous Ammonium Sulphate or Potash Alum. Submission of the Project.	
30 Date Sheet will be provided in advance	-	Revision and discussion of practicals covered during the session	
Reference Books: APC, Comprehensive Lab Manual Note : Project guidelines as per CBSE.			

Subject Code : 044 - Biology (Theory)		Syllabus: 2018-2019	Class : XII
Prescribed Books : Biology – A Textbook for Class XII (NCERT)			
TEST/EXAM	DURATION	PARTICULARS	
June Test 70	12.03.18 to 25.05.18	Unit VI - Reproduction Ch 1 : Reproduction in Organisms Ch 2 : Sexual Reproduction in Flowering Plants Ch 3 : Human Reproduction Ch 4 : Reproductive Health Unit VII - Genetics and Evolution Ch 5 : Principles of Inheritance and Variation. Ch 6 : Molecular Basis of Inheritance	
Test Dates	21.06.18 to 29.06.18	Syllabus Covered from 12.03.18 to 25.05.18 + Workbook	
CT-1 Theory 70 Practical 30	02.07.18 to 09.09.18	Unit VII – Genetics and Evolution (contd.) Ch 7 : Evolution Unit VIII – Biology in Human Welfare Ch 8 : Human Health and Diseases Ch 9 : Strategies for Enhancement in Food Production Ch 10 : Microbes in Human Welfare	

Exam Dates	10.09.18 to 19.09.18	Syllabus Covered from 12.03.18 to 09.09.18 + Workbook
CT-2 Theory 70 Practical 30	20.09.18 to 18.11.18	Unit IX – Biotechnology Ch 11 : Biotechnology : Principles and Processes Ch 12 : Biotechnology & its Applications Unit X – Ecology and Environment Ch 13 : Organism and Population Ch 14 : Ecosystem Ch 15 : Biodiversity and its Conservation Ch 16 : Environmental Issues
Exam Dates	19.11.18 to 03.12.18	Syllabus Covered from 12.03.18 to 18.11.18 + Workbook
Pre Board	04.12.18 to 25.12.18	Revision and Discussion of Sample Papers
Pre-Board Exams 70	26.12.18 to 15.01.19	Syllabus : Complete syllabus covered during the session + Workbook
Reference Books: 1. A textbook of Biology by Pradeep Publication. 2. Trumen's Elementary Biology.		

Subject Code : 044-Biology (Practical)		Syllabus : 2018-2019	Class : XII
TEST/EXAM	DURATION	PARTICULARS	
June Test	12.03.18 to 25.05.18	<ol style="list-style-type: none"> 1. Study Pollen Germination on a slide 2. Prepare a temporary mount of onion root tip to study mitosis 3. Study of Flowers adapted to pollination by different agencies (wind, insect, bird) 4. Study of pollen germination on stigma through a permanent slide. 5. Study & identify stages of gamete development i.e., T.S. Tests, and T.S. Ovary through permanent slide. 6. Study of T.S. of blastula through permanent slide. 7. Study Mendelian inheritance using seeds of different colour / sizes of any plant. <p>Allocation of the Project.</p>	
CT-1	02.07.18 to 09.09.18	<ol style="list-style-type: none"> 8. Study prepared pedigree charts of genetic traits. 9. Isolation of DNA from available plant material such as spinach, pea seeds etc. 10. Study the effect of temperature and three different pH on the activity of salivary amylase on starch. 11. To identify common disease causing organisms through permanent slides or specimens. 12. Exercise on controlled pollination – Emasculation, bagging and fogging. 13. Study meiosis through permanent slides. 	
<p style="text-align: center;">30</p> Date Sheet will be provided in advance	-	Syllabus Covered from 12.03.18 to 09.09.18 + Workbook	
CT-2	20.09.18 to 18.11.18	<ol style="list-style-type: none"> 14. Study two plant and two animals found in xeric conditions. 15. Study plants and animals found in aquatic conditions. 16. Study the presence of suspended particulate matter in air at the two widely different sites. 17. Collect water from two different water bodies around you and study them for pH, clarity and presence of any living organisms. 18. Collect and study soil from at least two different sites and study them for texture, moisture, pH and water holding capacity. 19. Study of plant population density of quadrat method. 20. Study of plant population frequency by quadrat method. <p>Submission of the Project.</p>	
<p style="text-align: center;">30</p> Date Sheet will be provided in advance	-	Revision and discussion of practicals covered during the session	
Reference Books: Comprehensive Laboratory Manual in Biology.		Note : Project guidelines as per CBSE.	

Subject Code : 048 - Physical Education (Theory)		Syllabus : 2018-2019	Class : XII
Prescribed Books: Saraswati Health & Physical Education			
TEST/EXAM	DURATION	PARTICULARS	
June Test 70	12.03.18 to 25.05.18	Unit 1 : Planning in Sports Unit 2 : Sports & Nutrition Unit 3 : Yoga and Lifestyle Unit 4 : Physical Education & Sports for CWSN (Children With Special Needs -Divyang)	
Test Dates	21.06.18 to 29.06.18	Syllabus Covered from 12.03.18 to 25.05.18 + Assignments Provided	
CT-1 Theory 70 Practical 30	02.07.18 to 09.09.18	Unit 5 : Children and Sports Unit 6 : Women and Sports Unit 7 : Test and Measurement in Sports Unit 8 : Physiology and Sports	
Exam Dates	10.09.18 to 19.09.18	Syllabus Covered from 12.03.18 to 09.09.18 + Assignments Provided	

<p>CT-2</p> <p>Theory Practical</p> <p>70 30</p>	<p>20.09.18 to 18.11.18</p>	<p>Unit 9 : Sports Medicine Unit 10 : Kinesiology, Biomechanics and Sports Unit 11 : Psychology and Sports Unit 12 : Training in sports</p>	
<p>Exam Dates</p>	<p>19.11.18 to 03.12.18</p>	<p>Syllabus Covered from 12.03.18 to 18.11.18 + Assignments Provided</p>	
<p>Pre Board</p>	<p>04.12.18 to 25.12.18</p>	<p>Revision and Discussion of Sample Papers</p>	
<p>Pre-Board Exams</p> <p>70</p>	<p>26.12.18 to 15.01.19</p>	<p>Syllabus : Complete syllabus covered during the session + Assignments provided</p>	
<p>Reference books: Together with Physical Education by S. Saini</p>			

Subject Code : 048 - Physical Education (Practical)		Syllabus : 2018-2019	Class : XII
Prescribed Books: Saraswati Health & Physical Education			
TEST/EXAM	DURATION	PARTICULARS	
June Test	12.03.18 to 25.05.18	<ul style="list-style-type: none"> Physical Fitness AAPER Skill of any individual game of choice from –Athletics, Football, Basket Ball, Handball, Kho-Kho, Volleyball and Unified Basketball. [CWSN children With Special Needs -Divyang) 	
CT-1	02.07.18 to 09.09.18	<ul style="list-style-type: none"> Practical - 1: Modified AAPER administration for all items. Practical - 2: Conduct Barrow 3 Item Test on 10 students. 	
30 Date Sheet will be provided in advance	-	Syllabus Covered from 12.03.18 to 09.09.18 + Assignments Provided	
CT-2	20.09.18 to 18.11.18	<ul style="list-style-type: none"> Practical - 3: Procedure for Asanas, Benefits & Contraindication for any two Asanas for each lifestyle disease. Practical - 4: Procedure for administering Senior Citizen Fitness Test for 5 elderly family members. Practical - 5: Any one game of your choice out of the list above. Labelled diagram of field & equipment (Rules, Terminologies & Skills). Viva and Record File 	
30 Date Sheet will be provided in advance	-	Revision and discussion of practicals covered during the session	
Reference books: Together with Physical Education by S. Saini			

Subject : 083 - Computer Science - Theory		Syllabus : 2018-2019	Class : XII
Prescribed Books:			
TEST/EXAM	DURATION	PARTICULARS	
June Test (70)	12.03.18 to 25.05.18	Unit I: Object Oriented Programming in C++ (Complete) Unit II: Concept of Data Structures (Arrays)	
Test Dates	21.06.18 to 29.06.18	Syllabus Covered from 12.03.18 to 25.05.18 + Assignments Provided	
CT-1 Theory (70) Practical (30)	02.07.18 to 09.09.18	Unit II: Concept of Data Structures (Queue, Lists and Stacks) Unit V: Networking and Open Source Software (Complete)	
Exam Dates	10.09.18 to 19.09.18	Syllabus Covered from 12.03.18 to 09.09.18 + Assignments Provided	

<p>CT-2</p> <p>Theory Practical</p> <p>70 30</p>	<p>20.09.18 to 18.11.18</p>	<p>Unit III: Database Management Systems & SQL (Complete)</p> <p>Unit IV: Boolean Algebra (Complete)</p>		
<p>Exam Dates</p>	<p>19.11.18 to 03.12.18</p>	<p>Syllabus Covered from 12.03.18 to 18.11.18 + Assignments Provided</p>		
<p>Pre Board</p>	<p>04.12.18 to 25.12.18</p>	<p>Revision and Discussion of Sample Papers</p>		
<p>Pre-Board Exams</p> <p>70</p>	<p>26.12.18 to 15.01.19</p>	<p>Syllabus : Complete syllabus covered during the session + Assignments provided</p>		
<p>Reference Books :</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"> <p>1. Computer Networks (PHI)</p> <p>3. Programming with C++ (Robert Lafore)</p> </td> <td style="width: 50%; border: none;"> <p>2. Digital Computers (M. Mano)</p> <p>4. Let us C++ (Yashwant Kanetkar)</p> </td> </tr> </table>			<p>1. Computer Networks (PHI)</p> <p>3. Programming with C++ (Robert Lafore)</p>	<p>2. Digital Computers (M. Mano)</p> <p>4. Let us C++ (Yashwant Kanetkar)</p>
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Subject : 083 - Computer Science - Practical		Syllabus : 2018-2019	Class : XII
TEST/EXAM	DURATION	PARTICULARS	
June Test	12.03.18 to 25.05.18	C++ program dealing with : <ul style="list-style-type: none"> • Classes • Inheritance • Data file handling • Arrays 	
CT-1	02.07.18 to 09.09.18	C++ program dealing with : <ul style="list-style-type: none"> • Queue • List • Stack • Submission of Project algorithm / flow chart 	
30 Date Sheet will be provided in advance	-	Syllabus Covered from 12.03.18 to 09.09.18 + Assignments Provided	
CT-2	20.09.18 to 18.11.18	Submission of Practical File Hands on SQL Project Work	
30 Date Sheet will be provided in advance	-	Submission of Project Report : - 30-11-18 Revision and discussion of practicals covered during the session	

Subject Code : 500 - Work Experience (Applied Art)		Syllabus: 2018-2019	Class : XII
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 the given theme. • Create a typographical design. • Design Making: Material required: Black water proof Ink, Painting brushes, Steel Scale (30cm), Compass, Black gel pen/ OHP marker, Water Container, Duster. 	
September' 18	Mid Assessment		
October'18 to December' 18	<ul style="list-style-type: none"> • Design and its basic elements 	<ul style="list-style-type: none"> • Prepare a creative packaging design. • Story Board (sequenced drawing) with poster colours. 	
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 : XII
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 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 : XII
MONTH	PARTICULARS			
	Theory		Practical	
March' 18 to August' 18	<ul style="list-style-type: none"> • Creative Pottery & Its history. • P.O.P. Relief work • Coffee Painting 	<ul style="list-style-type: none"> • Learn to make creative pottery: Material required: Clay, Tools, Comb, Jute Bag, Mat, Knife, Thread etc. • Learn to make P.O.P. Relief Work : Material required: POP & Various tools • Coffee Painting : Material required : ½ size cardboard, 3D outliner, one packet coffee, fevicol, acrylic colours, painting brush etc. 		
September' 18	Mid 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 : XII
MONTH	PARTICULARS			
March'18 to August' 18	Theory		Practical	
	<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 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 : XII
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 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 : XII
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 Thaata – Amad & Paran Amad. • Practice of One Simple Tukra and One Tihai. 		
September' 18	Mid 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 : XII
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 Raag Desh. 	
September' 18	Mid 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		
<p>Note: Grading will be done as per CBSE guidelines.</p>			

Subject Code : 500 - Work Experience (Textile Designing)		Syllabus: 2018-2019	Class : XII
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 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 : XII
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 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 : XII
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 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 : XII
MONTH	PARTICULARS		
March' 18 to August' 18	<ul style="list-style-type: none"> Value Education workshops - as per the schedule . 		
September' 18	Mid 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 Digital India 		
January' 19	Final Assessment		
<p>Note: Grading will be done as per CBSE guidelines.</p>			

Year Planner : 2018-2019		Class : XII
MONTH	DATE & DAY	DETAILS
March' 18	12.03.2018 (Monday)	Commencement of the Session
April' 18	04.04.2018 (Wednesday)	Principal's Session
	13.04.2018 (Friday)	Value Education Workshop : Team Work by XII A
	20.04.2018 (Friday)	Value Education Workshop : Honesty and Integrity by XII B
	21.04.2018 (Saturday)	Parent's Workshop : Career Counseling
	27.04.2018 (Friday)	Value Education Workshop : Fostering balance between Rights and Duties by XII C
	28.04.2018 (Saturday)	Educational Visit : Visit to IIT Delhi
May'18 - June'18	04.05.2018 (Friday)	Value Education Workshop : Sensitivity towards Environment by XII D
	11.05.2018 (Friday)	Student's Workshop : Treading the Career Path
	26.05.2018 (Saturday) to 20.06.2018 (Wednesday)	Summer Break
	21.06.2018 (Thursday) to 29.06.2018 (Friday)	June Test
July' 18	11.07.2018 (Wednesday)	Students' Workshop : Social Networking Ethics
August' 18	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
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
	16.11.2018 (Friday)	Senior Sports Day
	19.11.2018 (Monday) to 03.12.2018 (Monday)	CT – 2 Examination
December'18	15.12.2018 (Saturday)	Insync - School Fete
	27.12.2018 (Thursday) to 15.01.2019 (Tuesday)	Pre Board Examination
January' 19	19.01.2019 (Saturday)	Parent Teacher Meeting and Book Fair
February – March' 19	Board Exams (As per CBSE Schedule)	

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 : XII**

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	Christmas Day
January '19	14th Monday 26th Saturday	Makar Sankranti Republic Day